NEC4 Engineering and Construction

Short Contract

FCRM Operational Framework –SW Hub				
A contract between	The Environment Agency Horizon House Deanery Road Bristol BS1 5AH			
And				
For	Project_32522 - South West Culvert Inspection and Cleansing programme 2021 to 2023			
	Contract Forms - Contract Data - The Contractor's Offer and Client's Acceptance - Price List - Scope - Site Information			

The Client's Contract Data

	The Client is		
Name	Environment Agency		
Address for communications	Rivers House, East Quay, Bridgwater, TA6 4YS		
Address for electronic communications			
The works are	To undertake the culvert inspection and cleansing programme including provision of reports and updating the systems of the <i>Client</i> .		
The <i>site</i> is	South West England		
The starting date is	29th June 2021		
The completion date is	31st March 2022		
The delay damages are	Nil	Per day	
The <i>period</i> for reply is	2	weeks	
The defects date is	52	weeks after Completion	
The defects correction period is	4	weeks	
The assessment day is	the last working day	of each month	
	nil	%	

The Adjudicator is:

In the event that a first dispute is referred to adjudication, the referring Party at the same time applies to the Institution of Civil Engineers to appoint an *Adjudicator*. The application to the Institution includes a copy of this definition of the *Adjudicator*. The referring Party pays the administrative charge made by the Institution. The person appointed is also *Adjudicator* for later disputes.

The Client's Contract Data

		_	1.0			
The in	terest rate on late payment is		% per comple	te week	of delay.	
Insert	a rate only if a rate less than 0.5%	per week of de	lay has been agre	eed.		
	y one event, the liability of the	£100,000				
	actor to the Client for loss of or					
	ge to the <i>Client's</i> property is limited					
to		l				
The C	lient provides this insurance	None				
		Income a	Fable			
Event		Insurance	Cover		Cover provided until	
	of or damage to the works		The replacement	cost	The Client's certificate	
L033 0	of damage to the works		The replacement	COSt	Completion has bee	
	f or damage to Equipment, Plant and		The replacement		The defects Certificate	
	ontractor's liability for loss of or dama		Minimum £5,000		has been issued	
	ot the works, Plant and Materials ar		respect of every			
		and for bodily injury to or death of a person (not an without limit to the				
		in composition	number of eleipse			
	yee of the <i>Contractor</i>) arising from or	r in connection	number of claims			
with th	e Contractor's Providing the Works					
with th Liabilit Contra	e Contractor's Providing the Works y for death of or bodily injury to empactor arising out of and in the co	ployees of the ourse of their	The amount required the applicable law	ired by		
with th Liabilit Contra employ	e Contractor's Providing the Works y for death of or bodily injury to em	ployees of the ourse of their t	The amount requ	ired by	12 years followir	
with the Liabilite Contract employed Failure	e Contractor's Providing the Works by for death of or bodily injury to emploid arising out of and in the contraction with this contraction.	ployees of the ourse of their t	The amount required the applicable lave. Minimum £100,0 respect of every	ired by	Completion of the who	
with the Liabilite Contract employed Failure	e Contractor's Providing the Works y for death of or bodily injury to employed arising out of and in the contract of the Contract of the Contractor to use the skill and	ployees of the ourse of their t	The amount requ the applicable lav Minimum £100,0	ired by v 00 in v claim o the	,	
with th Liabilit Contra emplo Failure used b	e Contractor's Providing the Works y for death of or bodily injury to employed arising out of and in the contract of the Contract of the Contractor to use the skill and	ployees of the ourse of their t I care normally ar to the works	The amount required the applicable law Minimum £100,0 respect of every without limit to	ired by 00 in claim o the	Completion of the who of the works or earlie	
with th Liabilit Contra emplo Failure used b	e Contractor's Providing the Works by for death of or bodily injury to empletor arising out of and in the contract of the Contractor to use the skill and by professionals providing works similar	ployees of the ourse of their t I care normally ar to the works	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers	ired by 00 in claim o the	Completion of the who of the works or earlie	
with th Liabilit Contra emplo Failure used b The Ad	e Contractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the comment in connection with this contract of the Contractor to use the skill and by professionals providing works similarly professionals providing works similarly djudicator nominating body is	ployees of the purse of their t I care normally ar to the works The Institution	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers e courts	ired by 00 in claim o the	Completion of the who of the works or earlie termination	
with th Liabilit Contra emplo Failure used b The An	the Contractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the contract of the Contractor to use the skill and by professionals providing works similarly distributions of contract are the NEC4 Encontractor or contractor or c	ployees of the purse of their t I care normally ar to the works The Institution	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers e courts	ired by 00 in claim o the	Completion of the who of the works or earlie termination	
with th Liabilit Contra emplo Failure used b The Ad The tri	de Contractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the contract of the Contractor to use the skill and by professionals providing works similarly professionals providing works similarly distributed is	ployees of the purse of their to the care normally ar to the works The Institution litigation in the origineering and Communication and Communication in the origineering and Communication in the original in the	The amount required the applicable lave Minimum £100,0 respect of every without limit to number of claims of Civil Engineers e courts	ired by 00 in claim o the	Completion of the who of the works or earlie termination	
with th Liabilit Contra emplo Failure used b The tri The co followi Only e	the Contractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the contract of the Contractor to use the skill and by professionals providing works similarly distributions of contract are the NEC4 Encontractor or contractor or c	ployees of the purse of their to the care normally ar to the works The Institution litigation in the origineering and Communication and Communication in the origineering and Communication in the original in the	The amount required the applicable lave Minimum £100,0 respect of every without limit to number of claims of Civil Engineers e courts	ired by 00 in claim o the	Completion of the who of the works or earlie termination	
with th Liabilit Contra employ Failure used b The tri The tri Only e Z1.0	e Contractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the contract of the Contractor to use the skill and by professionals providing works similarly professionals providing works are providing works and professionals providing works are professionals providing works and professionals professionals providing works are professionals professionals providing works are professionals prof	ployees of the purse of their t I care normally ar to the works The Institution litigation in the agineering and Clitions are required.	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers ecourts.	ired by 00 in claim o the	Completion of the who of the works or earliestermination	
with th Liabilit Contra employ Failure used b The tri The co followi Only e Z1.0	e Contractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the component in connection with this contract of the Contractor to use the skill and by professionals providing works similarly professionals providing works similarly professional is Indicator nominating body is Indicator nominatin	ployees of the purse of their to the lourse of their to the works. The Institution litigation in the litigation in the litigation in the litigation are required feach proposed is that their appropriate that their appropriate of the litigation in	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers ecourts Construction Short of the contractor to the contractor to the contractor will not a	ired by 00 in colaim o the Contract	Completion of the who of the works or earlied termination t June 2017 and the transcript for acceptance. A reason Contractor to Provide the contractor of the who of the who of the who of the works or earlied termination.	
with th Liabilit Contra emplo Failure used b The tri The tri Only e Z1.0 Z1.1	diudicator nominating body is contractor of contract are the NEC4 Englanditions of contract are the NEC4 Englanditional conditions. Sub-contracting The Contractor submits the name of for not accepting the subcontractor.	ployees of the purse of their to the care normally ar to the works The Institution litigation in the agineering and Colitions are required feach proposed is that their appoint a proposed	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers ecourts Construction Short in the country of the courts of the country of th	ired by 00 in claim o the Contract the Client illow the till the C	t for acceptance. A reason Contractor to Provide them.	
with th Liabilit Contra emplo Failure used b The tri The tri Only e Z1.0 Z1.1	diudicator nominating body is and in the contractor to use the skill and by professionals providing works similar to additional conditions of contract are the NEC4 Eng additional conditions and the contractor to use the skill and by professionals providing works similar to professionals providing works are the NEC4 Eng additional conditions and the contractor of the contractor submits the name of for not accepting the subcontractor works. The Contractor does not appropriate to subcontractors and suppose the subcontractors	ployees of the purse of their to the correct of their to the works of the works. The Institution of the litigation in the litigation in the litigation in the litigation in the litigation are required feach proposed is that their appoint a propose opliers will be not the propos	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers ecourts Construction Short in the country of the courts of the country of th	ired by 00 in claim o the Contract the Client illow the till the C	t for acceptance. A reason Contractor to Provide them.	
with th Liabilit Contra emplo Failure used b The An The tri The co followi Only e Z1.0 Z1.1	discontractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the component in connection with this contract of the Contractor to use the skill and by professionals providing works similarly professionals providing works are the NEC4 Englanditions of contract are the NEC4 Englanditions of contract are the NEC4 Englanditional conditions enter details here if additional conditions are contracting. The Contractor submits the name of for not accepting the subcontractor works. The Contractor does not appropriate to subcontractors and supplement to subcontractors and supplement Agency as a regulator.	ployees of the purse of their to the purse of their to the corner to the works. The Institution litigation in the litigation in the litigation in the litigation in the litigation are required feach proposed is that their appropriate a proposed optiers will be not youthority.	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers courts Construction Short in the country of the court of the court of the country of the co	ired by 00 in claim o the Contract he Client illow the stil the C	Completion of the who of the works or earliest termination t June 2017 and the t for acceptance. A reason Contractor to Provide the contractor of invoice.	
with th Liabilit Contra emplo Failure used b The Ad The tri	didicator nominating body is in the Contractor are the NEC4 Engadditional conditions of contract are the NEC4 Engadditional conditions enter details here if additional conditions of contract of the Contractor are the NEC4 Engadditional conditions enter details here if additional conditions of contractor submits the name of for not accepting the subcontractor Works. The Contractor does not ap Payment to subcontractors and sup Environment Agency as a regulator The Environment Agency in the contractor of the Environment Agency is position.	ployees of the purse of their to the purse of their to the correct of their to the works. The Institution of the proposed is that their appropriate a proposed poliers will be not youthority as a regulatory.	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers courts Construction Short in the country of the court of the country of the	ired by 00 in colaim o the Contract the Client illow the still the C s from re	t June 2017 and the t for acceptance. A reaso Contractor to Provide the contract of invoice.	
with th Liabilit Contra emplo Failure used b The tri The tri Only e Z1.0 Z1.1	discontractor's Providing the Works by for death of or bodily injury to empeter arising out of and in the component in connection with this contract of the Contractor to use the skill and by professionals providing works similarly professionals providing works are the NEC4 Englanditions of contract are the NEC4 Englanditions of contract are the NEC4 Englanditional conditions enter details here if additional conditions are contracting. The Contractor submits the name of for not accepting the subcontractor works. The Contractor does not appropriate to subcontractors and supplement to subcontractors and supplement Agency as a regulator.	ployees of the purse of their to the care normally ar to the works The Institution litigation in the litigation in the litigation in the litigation in the litigation are required feach proposed is that their appoint a proposed is that their appoint a proposed poliers will be not y authority as a regulatory apacity are deel	The amount required the applicable law Minimum £100,0 respect of every without limit to number of claims of Civil Engineers courts Construction Short of subcontractor to the country and as Comed not to be taken	ired by 00 in colaim o the Contract the Client illow the till the C s from re lient und n in the	t June 2017 and the t for acceptance. A reaso Contractor to Provide the eceipt of invoice. The contract is separa other.	

	the Scope). The Client's acceptance of a tender and the Client's instruction or variation of the works
70.0	does not constitute statutory approval or consent.
Z2.3	An action by the Environment Agency as regulatory authority is not in its capacity as <i>Client</i> and is not a compensation event.
Z3.0	Confidentiality & Publicity
Z3.1	The Contractor may publicise the works only with the Client's written agreement.
Z4.0	Correctness of Site Information
Z4.1	Site Information about the ground, subsoil, ducts, cables, pipes and structures is provided in good faith
	by the <i>Client</i> but is not warranted correct. The <i>Contractor</i> checks the correctness of any such Site
	Information they rely on for the purpose of Providing the Works.
Z5.0	The Contracts (Rights of Third Parties) Act 1999
Z5.1	For the purposes of the Contracts (Rights of Third Parties) Act 1999, nothing in this contract confers or
	purports to confer on a third party any benefit or any right to enforce a term of this contract.
Z6.0	Design
Z6.1	Where design is undertaken, it is the obligation of the <i>Contractor</i> to ensure the use of skill and care normally used by professionals providing similar design services.
Z6.2	The <i>Contractor</i> designs the parts of the works which the Scope states they are to design.
Z6.3	The Contractor submits the particulars of their design as the Scope requires to the Client for acceptance.
20.0	A reason for not accepting the <i>Contractor's</i> design is that it does not comply with either the Scope or the
	applicable law.
	The Contractor does not proceed with the relevant work until the Client has accepted this design.
Z6.4	The Contractor may submit their design for acceptance in parts if the design of each part can be
	assessed fully.
Z7.0	Change to Compensation Events
Z7.1	Delete the text of Clause 60.1(11) and replace by:
	The works are affected by any one of the following events
	War, civil war, rebellion revolution, insurrection, military or usurped power
	• Strikes, riots and civil commotion not confined to the employees of the <i>Contractor</i> and sub-contractors
	Ionising radiation or radioactive contamination from nuclear fuel or nuclear waste resulting from the
	combustion of nuclear fuel
	Radioactive, toxic, explosive or other hazardous properties of an explosive nuclear device
	Natural disaster Fire and evaluation
	 Fire and explosion Impact by aircraft or other device or thing dropped from them
Z8.0	Framework Agreement
Z8.1	The Contractor shall ensure at all times during this contract it complies with all the obligations and
20.1	conditions of the Framework Agreement made with the <i>Client</i> .
Z9.0	Termination
Z9.1	Delete the text of Clause 92.3 and replace with:
	If the <i>Contractor</i> terminates for Reason 1 or 6, the amount due on termination also includes 5% of any
	excess of a forecast of the amount due at Completion had there been no termination over the amount
	due on termination assessed as for normal payments.
Z10.0	Data Protection
Z10.1	The requirements of the Data Protection Schedule shall be incorporated into this contract
Z11.0	Liabilities and Insurance
Z11.1	Civil data protection claims and regulatory fines for breaches of Data Protection Legislation are excluded from any limit of liability stated.
Z7.2	Additional Compensation Event COVID-19
21.2	Managing and mitigating the impact of Covid 19 and working in accordance with Public Health England
	guidance, as may vary from time to time, from 1st April to 30th June 2021.
L	galactice, as may vary notificine to time, notif it. April to 50° Julie 2021.

The Contractor's Contract Data

	The Contractor is	
Name	Bridge Civil Engineering Ltd	
Address for communications	Silverton House, Chudleigh, Dev	von, TQ13 0DF
Address for electronic	Enquires@bridgecivileng.co.uk	
communications	Enquires@bridgecivileng.co.uk	
The fee percentage is	As framework agreement	%
The second secon		
The <i>people rates</i> are		
category of person	unit	rate
		1,500
	<u> </u>	I
		•
The published list of Equipment is		
- :		1
The <i>percentage for adjustment for l</i>	=quipment is	

The Contractor's Offer and Client's Acceptance

The Contractor offers to Provide the Works in accordance with these conditions of contract for an amount to be determined in accordance with these conditions of contract. £ 566,305.00 The offered total of the Prices is Enter the total of the Prices from the Price List. Signed on behalf of the Contractor Name Position | Pre-Construction Manager Signature Date 4th May 2021 The Client accepts the Contractor's Offer to Provide the Works Signed on behalf of the Client Name Local Delivery Lead Position Signature 29/06/2021 Date

Price List

Itom	Description	Heit	Ougatita	Data	Drice
Item Number	Description	Unit	Quantity	Rate	Price
	Manageme	nt day			T
SW1	Programme lead to attend a virtual start up		1		
014/0	meeting on a date proposed by the client.				
SW2	Programme lead to attend bi -monthly virtual	Per	6		
0)4/0	progress meeting for a twelve month period.	year	40		
SW3	Provision of completed reports on a monthly	Per	12		
	bases and updates of the programme and risk register.	year			
SW4	Provision and management of Cloud Based	Per	1		
	System	Year			
SW5	For complex culvert cleansing and inspection	Per	1		
	provision of co-operation and supporting	culvert			
	information (CPP and RAMS) to a client				
	appointed Principal Designer	<u> </u>			
OMO	Provision of wor		050	<u> </u>	
SW6	Carry out pre-inspection site survey and	Per	250		
CMZ	reporting before works commence	culvert	200		
SW7	Provision of a 2 person CCTV team on site	Day	300		
SW8	Provision of a 3 person ROV / Sonar team on site	Days	25		
SW9	Provision of a jetvac (min 50gpm) and 2 person team on site	Day	50		
SW10	Provision of Recycler and 2 person team on site	Hours	100		
SW11	Provision of a 2 person entry team working on site - NC2	Day	50		
SW12	Provision of a 4 person entry team working on site - NC3	Day	20		
SW13	Provision of a 4 person entry team working on site with working breathing apparatus – NC4	Day	20		
SW14	Provision of a 3 person rescue team on site	Day	40		
SW15	Provision of Laser Scanning Surveying and post	Day	1		
	processing and reporting	50,			
SW16	Day rate for the Provision of Topographic Surveying Services capturing pipe invert levels,	Day	200		
	pipe sizes, manhole cover levels in conjunction with inspection and cleansing.				
SW17	Provision of £2k per highlighted 30 culverts for		1		
	works to allow access to culvert to perform				
	inspection				
	Sampling and disposa	l of mate	rial	<u> </u>	1
SW18	Silt samples and analysis (WAC Test)	Item	1		
SW19	Waste removal and disposal to an appropriate	Tonne	1		
310	waste disposal facility off site: Hazardous - Liquid/sludge (inc all transport and disposal costs)				_
SW20	Waste removal and disposal to an appropriate	Tonne	1		
3.120	waste disposal facility off site: Hazardous -	. 511110			
	Solid/granular. (inc all transport and disposal costs)				
SW21	Waste removal and disposal to an appropriate waste disposal facility off site: Non-hazardous -	Tonne	1		

	Liquid/sludge (inc all transport and disposal costs)			
SW22	Waste removal and disposal to an appropriate waste disposal facility off site: Non-hazardous - Solid/granular (inc all transport and disposal costs)	Tonne	1	
	Forming repo	ort		<u> </u>
SW23	Provision of reports and digital topographic drawings on the CCTV survey as detailed in the Scope on a monthly bases. (digital copies only onto cloud based system)	Per Culvert	488	
SW24	One days' training of one person in the EA's Asset Information Management System (AIMS).	Per day	1	
SW25	One days' training of one person in the EA's Asset Information Management System (AIMS OM).	Per day	1	
SW26	Provision of appropriate operative to input condition data into AIMS or AIMS OM at <i>Clients</i> office. (Assume that Operative can input 20 inspections per day)	Per day	25	
SW27	Provision of digital topographic drawing and data files.	Per culvert	488	
SW28	Provision of Carbon Calculator Report at end of year one contract (ERIC)	report	1	
	Travel			
SW29	Travel (only to be charged for sites over 25 miles from Contractors depot)	Mile	1,500	
	The	e total of t	the Prices	£ 566,305.00

The method and rules use	d to compile the Price List are
--------------------------	---------------------------------

Civil Engineering Standard Method of Measurement 4th edition (CESMM4) as per the Framework Price Workbook.

Scope

1. Description of the works

The description of the works provided below is intended for South West culvert inspection and cleansing.

The Contractor shall use workers with the right skills, knowledge and experience to complete culvert cleansing and inspection tasks.

Planning and Delivery Phase

The Contractor shall form a baseline programme to carry out culvert inspections and cleansing of the culverted lengths detailed in <u>Appendix A: South West programme 21 22)</u>). The Contractor shall manage the programme to deliver the tasks in the most efficient way, passing on any savings to the Client.

The *Contractor* shall consideration in the programme, flooding over the winter period, environmental constraints including migratory fish and over wintering birds, holiday seasonal people influx to ensure delivery of inspections. The *Contractor* is to manage and update a progress tracker and risk register in either MS Excel or MS Project format, this will be provided to the client on the 10th day of each month.

The Contractor shall assume that the Client has arranged Natural England assent to carryout culvert cleansing and inspection task for the identified culverts, all tasks are considered to be included in the 'General Maintenance Tasks'. (see section 7 of CROW Appendix 3 Formal Notice - Routine Maintenance and Operational Checks together with Debris and Obstruction Removal).

The *Client* will provide a 'letter of introduction' to aid the *Contractor* completing tasks. It is not anticipated that *Client* will issue formal notice to landowners unless deemed necessary by the *client*.

The *Client* has shared pre-existing information on the <u>Appendix A: South West programme 21 22</u>. The Contractor shall review the information provided and where gaps in the information exists the *Contractor* shall carry out a **preliminary site inspection** to identify missing details, potential hazards to enable a plan of work to be formed accordingly in **Wessex**.

The Contractor shall undertake the preliminary site inspection to all culverts in Devon and Cornwall area irrespective of the detail provided by the Client before the inspection is undertaken and report via email issues that might compromise the inspection task to the Client. Issues could include but are not limited to de-vegetation requirements, debris/health and safety screen constraints and locked sites. The Contractor shall provide supporting photos and cost estimation to undertake remedial tasks, such as clearing vegetation, removing debris screen, so that the Client can take appropriate steps to instruct tasks and make necessary progress. The Contractor should report identified issues ten work days before the planned inspection.

The Client has provided a 'culvert clearance instruction' in <u>Appendix A: South West programme 21 22</u> heading 'Clearance upto £2k where required' (response is 'yes')'. This instruction is limited to culverts in Wessex area, culvert clearance tasks can be progressed upto a value of £2,000 allowing a more effective culvert inspection. This will avoid duplication and delays to the programme (E.g. de-silting/vegetation clearance/install (like for like) materials or components). This instruction aims to reduce the number of failed inspections and fast track resolution to some of the simple and frequent defects identified. The Contractor is to provide 'before and after' photos and a task description to the Client when tasks have been carried out.

The Contractor shall be responsible for selecting an appropriate method to clear the culverts, the Contractor will need to ensure that all necessary permissions are in place prior to undertaking clearance tasks. All culvert

clearance task shall have a pre-determined method statement, risk assessment and waste management plan that will be received by the *Client* prior to commencement, this will be in the form of a "Construction Phase Plan".

Where the complexity of the tasks requires more than one contractor on site at any time a **Principal Designer** will be appointed by the *Client*. The contractor will form a site specific construction phase plan (CPP). The Contractor will include an allowance of ten working days for the *Client* and Principal Designer to review the CPP before work an instruction to work is given.

The Contractor shall be prepared to amend the programme when requested by the Client in order to take account of priority non-routine inspections where requested by the Client.

The *Contractor* shall obtain, and will be liable for, the costs associated with any relevant licenses and permissions from all relevant authorities and must provide copies of any licenses and permissions to the *Client* prior to the commencement of the works.

The *Contractor* shall provide traffic management in accordance with the Department of Environment, Traffic and the Regions (DETR) Traffic Signs Manual Chapter 8 where required.

Confined spaces entry shall only be allowed where there are no alternative survey techniques available and by prior agreement with the *Client*.

The *Contractor* shall take steps to prevent pollution incidents arising from cleansing and surveying activities. The *Contractor* shall employ suitable methods to trap and control the silt from travelling downstream.

The *Contractor* will complete analysis of sediment prior to its removal from culverts to determine its characteristics in accordance with relevant waste regulations. Sampling and testing will be in accordance with WRC Regulations, postage and courier. (WAC Testing).

Any material removed from culverts is to be disposed of at a licensed facility or re-used where possible, in accordance with the Environmental Protection Act 1990 (or subsequent replacements). Such material may only accumulate on a site for the purposes of collection and drying and must be removed from the site as soon as practicable. Material must only be transported by a registered waste carrier or re-enactment thereof, for the purpose of transporting and disposing of such waste as it may be necessary to remove during the execution of the task. The *Contractor* shall note that cut vegetation, dredged spoil and other natural or man-made arising from works are considered as waste when taken off site, and shall therefore be disposed of accordingly.

Full documentary evidence of the collection, transfer and disposal of waste, in accordance with a "Duty of Care: Controlled Waste Transfer Note" (Annex C Environmental Protection Act 1990, Waste Management, The Duty of Care A Code of Practice) and "Duty of Care - Controlled Waste Transfer Regulations" made under the Control of Pollution (Amendment) Act 1989, must be copied to the *Client*.

All weigh/tip tickets must be made available to the *Client* at the regular progress meetings. Failure to produce this documentation may result in forfeiture of payment to the *Contractor*.

Topographic Survey.

The *Contractor* shall undertake topographic survey on culverts to collect culvert georeferenced data in accordance with Environment Agency Specifications: National Standard Technical Specifications for Surveying Services.

Where it is not possible to achieve Environment Agency specification due to vegetation cover or access constraints then the *Contractor* is to use other best practice surveying techniques to achieve XYZ data requested. The *Contractor* must include a note where 'non-Environment Agency' best practise survey techniques have been adopted and provide a statement on the accuracy. (for example: Dumpy level +/-50mm OR tape measurement +/-10mm)

Post inspection reporting.

The *Contractor* shall provide all reporting and deliverables on a minimum monthly bases. The inspection reports are to be made available on a cloud storage approved by the *Client* and accessible for nominated Environment

Agency staff (up to twenty persons). In addition a digital hard drive containing all reports and associated digital data shall be provided to the *Client* at the end of the contract period.

The *Contractor* shall form a process to measure and report on the total carbon output in delivering the culvert inspection and cleansing task using Environment Agency approved techniques in the SHEW Handbook.

Deliverables

The following outputs shall be provided on each culvert inspection completed. Information to be provided in digital format only. All filenames to include the asset ID as a prefix and the Environment Agency System Code and year and month the survey completed (do not include other company names, **do not exceed 35 characters** in file names including spaces. The *Contractor* shall crop the asset name to ensure the character number is not exceeded). See Example below:

Date of Report EA Asset ID Asset Name

1221EA123456 Bure Lane Mudeford (example has 31 characters)

The *Contractor* shall aim to keep the file string as short as possible removing any unnecessary file structure components such as 'Files for issue' or 'ss documents'.

- A report format description of the condition of the culverted lengths for each survey, in accordance with the Manual for Sewer Condition Classification, Latest Edition and Condition Assessment Manual. In pdf format.
- 2) The Contractor shall provide **manhole record cards** and **digital topographic information** for structures and manholes associated with the surveyed lengths and a plan at a suitable scale showing the route of the culvert. Information will include all relevant structures (i.e. manhole covers, inlets, screens, outlets, culvert characteristics), together with ground levels invert and soffit levels of structures. The digitised data shall be georeferenced in British National Grid ESRI shapefiles.
- 3) A visual record of the survey in the format of a *video and photographs*. Videos shall be in .wmv format and photographs shall be .jpeg. Video files are include asset ID in the filename, the video footage shall be in colour and include embedment of culvert location, direction of inspection (i.e. inlet to outlet), simple description of asset, and location measurement from start of the survey headwall, or recorded feature. (see specification: Culvert Inspection Video Deliverable).
- 4) An 'executive summary' detailing any significant defects and the overall condition grade in accordance with the Environment Agency Condition Assessment Manual (CAM) T98. (see executive summary example document in Appendix B)
- 5) The T98 condition grades, inspection date, comment, will be added to the *monthly updated programme* and returned to the *Client* on a monthly basis.
- 6) The *Contractor* shall populate the Asset Inspector data (detailed on the Executive Summary and photos to the *Environment Agency's AIMS* within 30 days of the inspection taking place.
- 7) The Contractor shall provide a Carbon Calculator Report at the end of the 12 month programme period.

AIMS Data Upload in Environment Agency Office.

The *Contractor* shall provide suitable computer operative(s) to receive basic data input training in uploading relevant culvert summary data from inspections onto the Client's 'Asset Information Management System' (AIMS) or (AIMS OM from June 2021). The *Contractor* shall allow one day for training per operative. Example screen shots of the AIMS system are provided in appendix A. The operative will be supervised by an Asset Performance T98 trained member of the *Client's* team to oversee the data input task.

The *Contractor* operative shall carryout AIMS data uploads on behalf of the *Client* on a monthly basis in Rivers House Bridgwater. The *Contractor* will be unable to start this task until June 2021 due to data management system changes from 'AIMS' to 'AIM OM' at the Environment Agency.

This contract shall be awarded for an initial period concluding on the *completion date* stated in the Contract Data. The *Client* retains the right to extend the contract for one period of 12 months, up until a *completion date* of 31st March 2022. This extension shall be based on business need and satisfactory completion of the Scope by the *Contractor*.

2. Drawings					
None supplied					
Drawing Number	Revision	Title			

3. Specifications

Title	Date or Revision	Tick if publicly available
Manual of Sewer Condition Classification	4th Edition	Yes
New Roads & Street Works Act	1991	Yes
DETR Traffic Signs Manual Chapter 8	Latest	Yes
Specification as set out in the SW Culvert Inspection and Clearance FW2: Ref Culverts SW2 – Specification	Latest	Yes
Condition Assessment Manual (CAM)	Latest	Available from Client
Design Manual for Roads and Bridges - Inspection of Highway Structures (BD 63/17 Section 1 Inspection)	November 2017	Yes
Culvert Inspection Video Deliverable	3 rd May 2019	No
National Standard Technical Specifications for Surveying Services Version: 4.01.		No
SHEW Code of Practice	2017	No
Environment Agency Specifications : National Standard Technical Specifications for Surveying Services	4.01	

4. Constraints on how the Contractor Provides the Works

The *Contractor* shall not commence any work on the *site* until the *Client*, or their representative, has accepted the method statements and risk assessments related to this contract

The *Contractor* is to prepare, for the *Client's* acceptance, the Construction Phase Plan (CPP) that shall incorporate a Environmental Action Plan (EAP) prior to starting the *works*.

The Contractor shall adhere to SHEW CoP.

The *Contractor* shall be responsible for scheduling and undertaking inspection for lower tides and lower water flows.

The *Contractor* will establish a liaison procedure with the Environment Agency flood warning service to obtain advanced flood warnings.

Working times

The Contractor will be permitted to work between 7.30am and 6.00pm on weekdays (Monday to Friday)

The Contractor will be permitted to carryout tasks between 17th May and 31st October 2021 on North Wessex SSSI Site

Working times

The Contractor will not be permitted to upload culvert inspection data into AIMS until June 2021. (This is due to data migration into a new Asset Database which will be used).

5. Requirements for the programme

· see section 1 'Description of the works' for programme requirements.

The *Contractor* submits the programme with the *Contractor*'s Offer for acceptance. The *Contractor* shows on each programme which the *Contractor* submits for acceptance (in form of Gantt chart showing the critical path, proposed order and timing to undertake the works and proposed plant and labour resources) the following:

- (a) Period required for mobilisation/ planning & post contract award
- (b) starting date
- (c) Each of the activities listed within the Price List
- (d) Any key third party interfaces: lead in periods for materials and sub-contractors; time required to obtain consents/waste permits; stated constraints; *Contractor's* risks.
- (e) Completion date

6. Services and other things provided by the Client

Item	Date by which it will be provided
Provision of Environment Agency computers and appropriate user details for inputting AIMS asset information	(to be agreed)
Previous Inspection Reports in digital format (where available)	(on award)
A Culvert Inspection Executive Summary Template to assist AIMS data input	(included as contract)
CROW Appendix 3 Assent for North Wessex SSSI	(included in contract)

Site Information

1) Shape File Containing. Known Asset Information and Location. (on award)

Proposed sub-contractors			
	Name and address of proposed subcontractor	Nature and extent of work	
1.	Form of Contract:		
2.	Form of Contract:		
3.	Form of Contract:		
4.	Form of Contract:		