BBSRC

NEC3 Engineering and Construction Contract Option A for

Former Roslin Institute
Demolition and Asbestos Removal Works

Tender Document

Instructions to Tenderers
Appendix A
Contract Data – Part 1
Contract Data – Part 2
Works Information
Site Information
Appendix B and C (Specifications and Testing)
Appendix D to G (Contractor Supplied Information)

1.0 INSTRUCTIONS TO TENDERERS

1. The Tender offer should be made on the ***Form of Tender*** incorporated herein together with the ***Contract Data Part 2*** which is to be fully completed by the Tenderer.

2. Tenderers are to submit a detailed programme as WI 500 with their offer. This is to be given a unique reference number by the tenderer and this is to be inserted against the item in ***Contract Data Part 2***.

3. The methodology for assessing compliant programmes is given in PROJ 1.3 of the ITQ (Invitation To Quote) document. Attention is drawn to the key completion date of 28 February 2016; earlier completion will be regarded favourably in the assessment of the programme.

4. Tenderers are to state their completion date in ***Contract Data Part 2***. This is to be stated as the number of weeks after the ***starting date*** given in ***Contract Data Part 1.***

5. The tender total should be presented as a completed ***activity schedule*** prepared by the tenderer. The activity schedule should ***as a minimum*** include all of the items listed on the Excel Activity Schedule / Pricing Document provided through the portal and referenced in Supplier Price Questionnaire Section 6, Question AW5.2. Tenderers are free to add further items as necessary to match their proposed works. Please be aware that the tender programme must match the activity schedule.

6. Tenderers should be aware that payment of the items included on the activity schedule can only be made when all of the work described in the item is complete. The activity schedule should therefore contain sufficient detail to facilitate staged payments over the duration of the contract if this is required.

7. The activity schedule is to be given a unique reference number by the tenderer and this is to be inserted against the item in ***Contract Data Part 2.***

8. The pricing of everything referred to in the Tender Specifications will be deemed to be included as part of the Tender Submission whether items are separately identified in the Tender Documents or otherwise.

9. The pricing of the Tenderers overheads, establishment costs, and charges, and all such costs shall be deemed to be included as part of the Tender Submission whether these are separately identified in the Tender Documents or otherwise.

10. Tender Submissions must be held open for a period of 120 days from the closing date for the receipt of Tender Submission.

11. All prices tendered must be fixed and must be exclusive of Value Added Tax (VAT). All pricing in the Tender Submission must be "net".

12. The Priced Event for use with the Shorter Schedule of Cost Components is included within Appendix E. Tenderers are to price this Schedule which will be used by the Project Manager in the evaluation of quotations and the value of Compensation Events throughout the contract.

The total of the Priced Event for use with the Shorter Schedule of Cost Components will be used by the *Employer* in the evaluation of the tender to determine the most advantageous financial offer. The methodology as described in Appendix 4 of Guidance notes for NEC Engineering and Construction Contract will be used.

The rates for people entered in the priced event are to include for all the specific items listed in the EEC3 contract.

13. The Employer does not bind himself to accept any tender that is submitted.

14. Method statements are to be provided with the offer. The requirements to be provided are described in clause PROJ 1.4 of The ITQ document. Tenderers should note that method statements prepared by the successful tenderer will be used by the *Project Manager* to finalise Demolition Warrant approval and that the Contract will not be awarded until this approval is determined.

15. List of Documents for Tender Return

The documents to be returned with the Tender are detailed as below:

Document	**Section Ref**
Contract Data Part 2	2.0
Form of Tender	Appendix A
Certificate of Non - Collusion	Appendix A
Prompt Payment Certificate	Appendix A
Waste Carriers License	Appendix A
Goods Vehicle License Certificate	Appendix A
Named Sub *Contractor*s and suppliers	Appendix D
Priced Event for use with SSCC	Appendix E
Contractor's Risk Register	Appendix F
Fully Detailed Programme	Appendix G
Demolition Method Statements	Appendix H

APPENDIX A

FORMS & CERTIFICATES TO BE SIGNED AND RETURNED WITH TENDER

Form of Tender
Certificate of Non Collusion
Prompt Payment Certificate
Waste Carriers License
Goods Vehicle Operators Certificate

All Permanent and Temporary Works in connection with:

FORMER ROSLIN INSTITUTE
DEMOLITION AND ASBESTOS REMOVAL WORKS

FORM OF TENDER

(**Note:** The Contract Data forms part of the Tender)

TO: -

Biotechnology and Biological Sciences Research Council (BBSRC)
Polaris House
North Star Avenue
Swindon
Wiltshire
SN2 1UH

Having examined

(1) the *conditions of contract*, being the NEC3 Engineering and Construction Contract, Option A, June 2005 with amendments 2006 and 2013 and as amended by the *Employer* in the *additional conditions of contract*.

(2) Contract Data

(3) Works Information and Site Information

(4) Specification

(5) Drawings

we offer to Provide the *Works* and correct defects until the *defects date* in conformity with the said *conditions of contract*, the Contract Data, the *Works Information* and the Site *Information* for the price of

£ ……..

(in words) .....

(being the tendered total of the Prices carried forward from the Activity Schedule)

We undertake to start and complete the works on the dates stated in the Contract Data.

We understand that the above amount may be adjusted in accordance with the *conditions of contract*.

This Tender, together with your written acceptance thereof, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest, most economically advantageous or any tender you may receive.

Yours faithfully,

Signature …… In capacity of ……

Duly authorised to sign tenders for and

On behalf of:- ……

Postal Address:- ……

……

……

Dated ……

CERTIFICATE OF NON-COLLUSION

Contract: **FORMER ROSLIN INSTITUTE**
DEMOLITION AND ASBESTOS REMOVAL WORKS

The essence of selective tendering is that the client shall receive bona fide competitive tenders from all those tendering. In recognition of this principle we certify that this is a bona fide tender, intended to be competitive, and that we have not fixed or adjusted the amount of the tender by or under or in accordance with any Contract or arrangement with any other person. We also certify that we have not done and we undertake that we will not do at any time before the hour and date specified for the return of this tender any of the following acts: -

(i) Communicating to a person other than the person calling for those tenders the amount or approximate amount of the proposed tender, except where the disclosure, in confidence, of the approximate amount of the tender was necessary to obtain insurance premium quotations required for the preparation of the tender;

(ii) Entering into any agreement or arrangement with any other person that he shall refrain from tendering or as to the amount of any tender to be submitted;

(iii) Offering or paying or giving or agreeing to pay or give any sum of money or valuable consideration directly or indirectly to any person for doing or having done or causing or having caused to be done in relation to any other tender or proposed tender for the said *works* any act or thing of the sort described above.

In this certificate, the word "person" includes any persons and any body or association, corporate or unincorporate; and "any agreement or arrangement" includes any such transaction, formal or informal, and whether legally binding or not.

We acknowledge that BBSRC will be entitled to cancel the contract and to recover from us the amount of any loss resulting from such cancellation if we or our representative (whether with or without our knowledge) shall have practised collusion in tendering for the contract or any other contract with the Client or shall have employed any corrupt or illegal practices either in the obtaining or execution of the contract or any other contract with the Client.

Signed _____

On behalf of _____

_____

_____

_____

Dated _____

PROMPT PAYMENT CERTIFICATE

(**Note**: This Certificate forms part of the Tender)

Contract: **FORMER ROSLIN INSTITUTE**
DEMOLITION AND ASBESTOS REMOVAL WORKS

1. Having examined the provisions of the Conditions of Contract designed to ensure the prompt payment of sub-contractors we certify that: -

   (1) Any sub-contract for works entered into by the Contractor shall provide for timely payment of the sub-contract on terms comparable to those detailed in Clause 15 of the Civil Engineering Contractors Association Form of Sub-Contract dated October 1998 except for the following modifications: -

      (a) in sub-clause (3)(a) delete the words: -

      "or otherwise agreed"

      (b) sub-clause (3)(b)(iv) is deleted and replaced by : - “not taken up”.

   (2) For any other sub-contract for goods and / or services the Contractor shall pay his suppliers within 30 days of the receipt of a valid demand for payment, or within any other period as may be normal practice within the industry for the supply of such goods and services.

   (3) We understand that failure by us to comply with sections (1) and (2) above and/or failure to act in accordance with the provisions for prompt payment of sub-contractors/suppliers found within the Conditions of Contract will be taken into account as provided for by the EC Works Directive when considering tendering opportunities for our Company or any future Company which may be formed by us.

Dated this _____ day of _____ 2015

Signature _____ In capacity of _____

Duly authorised to sign tenders and certify acceptance of the provisions of the Prompt Payment Certificate for and on behalf of:

_____

Postal Address: _____

_____

Fax No: _____ Telephone No: _____

WASTE CARRIERS LICENSE

(**Note**: This Certificate forms part of the Tender)

Contract: **FORMER ROSLIN INSTITUTE**
DEMOLITION AND ASBESTOS REMOVAL WORKS

We declare and warrant that we have/will apply for SEPA registration as a carrier or broker of controlled waste under the provisions of:

Control of Pollution (Amended) Act 1989
Controlled waste (Registration of carriers and Seizure of Vehicles) Regulations 1991.

Duly authorised to sign tenders and certificates for and on behalf of:

Signature: _____

Print Name: _____

For and on behalf of: _____

Position held within the Company: _____

Date: _____

GOODS VEHICLE OPERATOR LICENSING CERTIFICATE

(**Note**: This Certificate forms part of the Tender)

Contract: **FORMER ROSLIN INSTITUTE**
DEMOLITION AND ASBESTOS REMOVAL WORKS

Throughout the whole of the period of the Contract we certify that: -

(1) We shall ensure by inspection that: -

(a) any vehicle operator present on the Site or who has cause to enter upon the Site is in possession of a full and currently valid "Goods Vehicle Operator Licence" - ("O" - Licence) - in compliance with all statutory requirements in force, or

(b) where on rare occasions, an operator appears to be using a vehicle legitimately, but is unable to present a valid "O" Licence disc for that vehicle, evidence will be required to be produced that an application to the relevant Traffic Area Office has been made.

We shall not permit any Vehicle Operator who does not have, or reasonably expect to have, possession of a currently valid "Goods Vehicle Operator Licence" access to the Site.

(2) We shall ensure that any Vehicle Operator present on the Site for the purposes of carrying out the Works whose "Goods Vehicle Operator Licence" is revoked for whatever reason will be immediately required by us to remove his personnel and vehicles from the Site, or act as otherwise directed by the appropriate enforcement authorities.

(3) We understand that failure by us to comply with section (1) and (2) above and/or failure to act in accordance with the provisions herein and the Conditions of Contract will be taken into account as provided for by the EC Works Directive when considering future tendering opportunities for our Company or any future Company which may be formed by us.

Dated this _____ day of _____ 2015

Signature _____ In capacity of _____

Duly authorised to sign tenders and certify acceptance of the provisions of the Goods Vehicle Operator Licensing Certificate for and on behalf of:

_____

Postal Address: _____

_____

Fax No: _____ Telephone No: _____

2.0 CONTRACT DATA PART 1 – DATA PROVIDED BY THE *EMPLOYER*

General

The conditions of contract are the core clauses and the clauses for main Option A; Priced Contract with Activity Schedule, dispute resolution Option W2 and secondary Options of the NEC3 Engineering and Construction Contract with amendments 2006 and 2013 as follows:

Option	Description	Used/Not Used
X1	Price adjustment for inflation	Not Used
X2	Changes in the law	**Used**
X3	Multiple currencies	Not Used
X4	Parent company guarantee	Not Used
X5	Sectional Completion	**Used**
X6	Bonus for early Completion	Not Used
X7	Delay damages	**Used**
X12	Partnering	Not Used
X13	Performance bond	Not Used
X14	Advanced payment to the *Contractor*	Not Used
X15	Limitation of the *Contractor's* liability for his design to reasonable skill and care	Not Used
X16	Retention	**Used**
X17	Low performance damages	**Used**
X18	Limitation of liability	Not Used
X20	Key performance indicators (not used with Option X12)	Not Used
Y(UK)2	The Housing Grants Construction and Regeneration Act 1996	**Used**
Y(UK)3	The Contracts (Rights of Third Parties) Act 1999	Not Used
Z	Additional conditions of contract	**Used**

2.0 CONTRACT DATA PART 1 – DATA PROVIDED BY THE *EMPLOYER*

1. General

- The *conditions of contract* are the core clauses and the clauses for main Option **A**, dispute resolution Option **W2** and secondary Options **X2**, **X5, X7**, **X16**, **X17, Y(UK)2** and **Option Z** of the NEC3 Engineering and Construction Contract - Option A, June 2005 (with amendments 2006 and 2013) and Z clauses included in Contract Data Part 1 of this Invitation to Tender.

- The *works* are **Demolition and Asbestos Removal at the former Roslin Institute.**

- The *Employer* is
  Biotechnology and Biological Sciences Research Council (BBSRC)
  Polaris House
  North Star Avenue,
  Swindon,
  Wiltshire,
  SN2 1UH

- The *Project Manager* is
  Donald McGregor
  Ironside Farrar Ltd
  111 McDonald Road
  Edinburgh
  EH7 4NW

- The *Supervisor* is
  Simon Lewis
  Ironside Farrar Ltd
  111 McDonald Road
  Edinburgh
  EH7 4NW

- The Adjudicator is: see Option W2.2 (3).
- The Works Information is in Section 3 in this document.
- The Site *Information* is in **Section 4 in this document.**
- The boundaries of the site are shown on drawing 8414_102.
- The *language of this contract* is **English**
- The law of the contract is the law of **Scotland, subject to the jurisdiction of the Courts of Scotland**
- The period for reply is 2 weeks
- The Adjudicator nominating body is **the Chartered Institute of Arbitrators (Scottish Branch)**
- The tribunal is **Arbitration**
- The following matters will be included in the Risk Register.

1. Utilities Company programme timescales

2.0 CONTRACT DATA PART 1 – DATA PROVIDED BY THE *EMPLOYER*

3. Time

- *The starting date* **is 10 August 2015 or if later, the date of the letter of acceptance from the *Employer* accepting the *Contractor*'*s* offer.**
- The *access date is* **4 weeks from the date of the *Employer* accepting the *Contractor*'s offer.**
- The *Contractor* submits revised Programmes at intervals no longer than **5 weeks and with each Contractor's Quotation for a Compensation Event.**

4. Testing and Defects

- The *defects date* is **52 weeks** after Completion of the whole of the *works.*
- The *defect correction period* is **3 weeks**.

5. Payment

- The *currency of this contract* is the **pound sterling (£)**
- The assessment interval is **Calendar Monthly, being the first Monday of each Calendar Month.**
- The *interest rate* is **2%** per annum above the **average base rate in force from time to time at the following banks: Lloyds TSB, HSBC and Royal Bank of Scotland or the rate of statutory interest set by the Secretary of State pursuant to the Late Payment of Commercial Debts (Interest) Act 1998 (whichever is the higher).**

6. Compensation events

- The place where weather is to be recorded is **Gogarburn Edinburgh.**
- The weather measurements to be recorded for each calendar month are:
  1. The cumulative rainfall (mm)
  2. The number of days with rainfall more than 5mm
  3. The number of days with minimum air temperature less than 0 degrees Celsius
  4. The number of days with snow lying at **09:00** hours GMT
  5. The weather measurements are supplied by
     The Met Office, Customer Centre, 0870 900 0100, Fax 0870 900 5050
  6. The weather data are records of past weather measurements for each calendar month which were recorded at **Gorgarburn** and which are available from
     The Met Office, Customer Centre, 0870 900 0100, Fax 0870 900 5050

2.0 CONTRACT DATA PART 1 – DATA PROVIDED BY THE *EMPLOYER*

7.Risks and insurance

- The minimum limit of indemnity for insurance in respect of loss of or damage to property (except the works, Plant and Materials and Equipment) and liability for bodily injury or death of a person (not an employee of the Contractor) caused by activity in connection with this contract for any one event is
  £5,000,000 (five million pounds).

- The minimum limit of indemnity for insurance in respect of death of or bodily injury to employees of the *Contractor* arising out of and in the course of their employment in connection with this contract for any one event is
  £5,000,000 (five million pounds).

8. Optional statements

- The *key dates* and *conditions to be met* are

  condition to be met — key date

  1. Complete tree and shrub removal — 01 March 2016

  2. Complete demolition and site clearance, reshaping: 28 February 2016

  Y(UK)2 is used

- The period within which payments are made is **28 days following the assessment date.**

- The tribunal is Arbitration. The arbitration procedure is **in accordance with the law of Scotland, Arbitration (Scotland) Act 2010 and "The Scottish Arbitration Code 2007" prepared by the Chartered Institute of Arbitrators (Scottish Branch) and any amendment to or modification thereof being in force at the time of appointment of the arbitrator.**

- The place where the arbitration is held is **Edinburgh.**

- The person or organisation who will choose an arbitrator
  - If the Parties cannot agree a choice or
  - If the *arbitration procedure* does not state who selects an arbitrator is

  is the Chartered Institute of Arbitrators (Scottish Branch).

Options X5 and X7 are used

Delay damages for each section of the works

Section	Description	Amount per day
1	Asbestos removal	£1000
2	Demolition works	£500

2.0 CONTRACT DATA PART 1 – DATA PROVIDED BY THE *EMPLOYER*

Option X16 is used

- The *retention free amount* is £nil
- The *retention percentage is **3% of the Work Done to Date.***

Option X17 is used

The amount for low performance damages are

amount	performance level
£1000 per full day / £500 per half day	as WI 1905

2.0 CONTRACT DATA PART 1 – DATA PROVIDED BY THE *EMPLOYER*

Option Z is used

ADDITIONAL CONDITIONS OF CONTRACT

In Clause 11.2
Insert the following new definitions:

11.2 (15) The **Contractor's Tender Submission** is the *Contractor*'s submission to the *Employer*, inclusive of the Tender Documents and any adjustments to the Tender Documents made during the tender period which detailed the basis on which the *Contractor* offered to enter into a contract with the *Employer* to Provide the *Works*;

11.2 (16) The **Letter of Acceptance** is the letter issued by the *Employer* to the *Contractor* accepting the *Contractor*'s Tender Submission, stating the offered total of the Prices which applies to the contract and inclusive of any adjustment or clarification of the *Contractor*'s Tender Submission intimated through correspondence between the *Employer* and the *Contractor* after the time the *Contractor*'s Tender Submission was received by the *Employer*;

Z1 deletes clause 12.3 and replaces with the following:

Z1 The contract comprises the Letter of Acceptance inclusive of all documents or adjustments or amendments referred to therein, the Tender Documents, the *Contractor*'s Tender Submission and these conditions of contract.

2.0 CONTRACT DATA PART 2 – DATA PROVIDED BY THE *CONTRACTOR*

General

1. The *Contractor* is:

   Name ……

   Address ……

2. The direct *fee percentage* is …… %.

3. The subcontracted fee percentage is……%

   The Tenderer is to state clearly if the percentage is **plus** or **minus**.

4. The *working areas* are the Site and ……

5 The key persons together with CVs (no longer than 1 A4 page), are as follows:

   - Project Director ……
   - Site Agent ……
   - Site Safety Officer ……
   - Traffic Safety and Control Officer ……

6. The following matters will be included in the risk register (Appendix F):

   .....

   .....

7. The programme identified in the Contract Data is ……

8. The *completion date* for the whole of the works is
   ……..**weeks after the starting date**

9. The *activity schedule* is……

10. The tendered total of the Prices is **in the Form of Tender.**

2.0 CONTRACT DATA PART 2 – DATA PROVIDED BY THE *CONTRACTOR*

Data for the Shorter Schedule of Cost Components

11 The percentage for people overheads is…….%

16. The published list of Equipment is the last edition of the list published by **The Civil Engineering Contractor's Association, being the latest edition before the tender issue date titled. "Schedules of Day*works* carried out incidental to Contract *Works*".**

12. The percentage for adjustment for Equipment in the published list is is…….%
The Tenderer is to state clearly if the percentage is **plus** or **minus**.

13. The rates for other Equipment not in the CECA schedule are:

Equipment	Size or capacity	Rate
……	……	……
……	……	……
……	……	……
……	……	……
……	……	……

3.0 CONTRACT DATA : WORKS INFORMATION

Works Information – Contents

WI 100 Description of works
WI 105 Description of *works*
WI 110 Project Objectives

WI 200 General constraints on how the contractor provides the *works*
WI 205 General Constraints
- Use of the site
- Access to the site
- Deliveries
- Working hours
- Noise and vibration
- Parking
- Use of cranes and lifting equipment
- Storage of fuels and chemicals
- Pollution, ecological or environmental impacts
- Interfaces between the works and existing things
- Occupied premises and users

WI 210 Confidentiality
WI 215 Site security and protection of the site
WI 220 Security and identification of people
WI 225 protection of existing structures and services
- Trees and plants
- Privately and publicly owned services and suppliers

WI 230 Protection of the works
WI 235 Cleanliness of roads
WI 240 Traffic management
- Traffic management responsibility and standards
- Traffic safety and control officers
- Requirements and procedures for managing traffic
- Access for pedestrians
- Temporary hoardings and gantries
- Traffic management programme
- Lighting
- Emergency procedures

WI 245 Condition surveys
WI 250 Consideration of others
WI 255 Industrial relations
WI 260 Control of Site Personnel
WI 265 Site cleanliness
WI 270 Waste materials
WI 275 Deleterious and hazardous materials
- Asbestos
- Restrictions on use
- Invasive plant species

WI 280 Protection of the existing environment
WI 290 Community outreach and engagement
- Public visits

WI 300 Contractors design

3.0 CONTRACT DATA : WORKS INFORMATION

WI 400 Completion

WI 405 Completion definition
WI410 Sectional completion
WI 415 Training
WI 420 Final clean
WI 425 Security
WI 430 Correcting defects
WI 435 Pre-completion arrangements
WI 440 take over

WI 500 Programme

WI 505 Programme requirements
WI 510 Programme arrangement
WI 515 Method statements
WI 520 Work of the Employer and others
WI 525 Revised programme

WI 600 Quality Management

WI 605 Samples
WI 610 Quality statement
WI 615 Quality management systems
WI 620 Setting out information
WI 625 Planting species substitutions

WI 700 Tests and inspections

WI 705 Tests and inspections
- Samples of plant or materials provided by the *Contractor*
- Samples of materials excavated or recovered from the works by the *Contractor*
- Samples of workmanship
- Equipment plant and materials outside the working area before payment or delivery
- Plant and materials and work prior to completion
- Work in the working area
- Performance tests

WI 710 Management of tests and inspections
WI 715 Covering up completed work
WI 720 Supervisors notifications for inspections and watching tests

WI 800 Management of the Works

WI 805 Project Team - others
WI 810 Communications
- Progress meetings
- Information requirements
- Site meetings
- Applications for payment

WI 900 Working with the Employer and others

WI 905 Sharing the working areas with the Employer and others
WI 910 Co-operation
WI 915 Co-ordination
WI 920 Authorities and utility providers
- Utility supplies and diversionary works
- Unrecorded services

3.0 CONTRACT DATA : WORKS INFORMATION

WI 1000 Services and other things to be provided

WI 1005 Services and other things for the use of the Employer, Project Manager, or others to be provided by the Contractor

- Equipment for checking of setting out
- Safety equipment
- CCTV Sewer survey and pressure jetting equipment

WI 1010 Services and other things to be provided by the Employer

WI 1100 Health and Safety

WI 1105 Health and safety requirements

- Employer safety requirements
- Reporting requirements
- Safety Management, Supervision and Qualifications

WI 1110 Method statements
WI 1115 Legal requirements
WI 1120 Inspections
WI 1125 Record drawings

WI 1200 Subcontracting

WI 1205 Restrictions or requirements for subcontracting
WI 1210 Acceptance procedure

WI 1300 Title

WI 1305 Marking
WI 1310 Material from excavation and demolition

WI 1400 Acceptance or procurement procedure (Options C, D, E and F)

WI 1500 Accounts and records

WI 1505 Labour and equipment returns

WI 1600 Parent company guarantee (Option X4)

WI 1700 Performance bond (Option X3)

WI 1800 Advance payment bond (Option X14)

WI 1900 Low performance damages (Option X17)

WI 1905 Failures affecting works of Asbestos/Analytical Consultant

WI 2000 Employers work specifications and drawings

WI 2005 Employers work specifications
WI 2010 Drawings

3.0 CONTRACT DATA : WORKS INFORMATION

WI 100 Description of the *works*

WI 105 Description of the *works*

The *works* are the demolition of the buildings, foundations and hardstanding's comprising the University of Edinburgh property the former Roslin Institute. The *works* comprise

- identification and removal of all asbestos materials from within 41 nr buildings,
- demolition, with full material segregation and removal from site of 41 nr "above ground" structures,
- excavation and removal from site of all "below ground" functions to the 41 nr above ground structures and backfilling any voids below floor solum with structural fill,
- identification of all redundant utilities services,
- excavation and removal from site of all redundant utilities services and service chambers, and backfill of any voids created with structural fill,
- liaison with The University of Edinburgh, Scottish Power, Openreach, Vodafone and Scottish Water regarding extent of ownership and the sections of these that remain in service,
- breaking up and removing from site all roads and hardstanding's not identified as being retained and backfilling voids below solum with specified fill materials,
- demolition and removal of all ancillary structures, slabs, bases, chambers, cabinets together with stockpiled arising's from tree and other works carried out by others which are present on the *works* site,
- CCTV survey (with GPS location), pressure jetting to retained drainage system,
- grading and reshaping disturbed ground to a smooth, flowing profile and,
- provision of certified end-destination information for all removed materials.

3.0 CONTRACT DATA : WORKS INFORMATION

WI 110 Project Objectives

1. The former Roslin Institute is to be demolished and the site made ready for new development free of all existing site infrastructure unless specifically identified on drawing 8414_101 as being retained.

2. The objective of the demolition project is to remove all identified structures including all of their foundations, associated hardstanding's, roads and unwanted services down to solum. Tree felling and shrub removal will also be necessary.

3. Removal of asbestos material will be required as precursor to demolition and this task will subject to a sectional completion.

4. Removal or alterations of existing utility infrastructure by the University of Edinburgh, British Telecom (Openreach), Scottish Power, Scottish Gas and Scottish Water is to be co-ordinated by the *Contractor*.

5. The site is to be handed back to the client free from contamination with excavated or disturbed areas graded such they do not hold surface water.

WI 200 General constraints on how the *Contractor* provides the *works*

1. Method statements for building warrant submission are to be made by the *Contractor* prior to his appointment and will be used by the *Project Manager* to secure demolition warrant. Refer to WI 515 and to Section PROJ 1.4 in the ITQ document for details of obligations on the *Contractor* in this respect.

2. Asbestos removal and abatement works are to be carried out by a Licensed Asbestos Removal Contractor (LARC).

3. Selection and segregation of all materials arising from the *works* is required to provide a chain of custody to final depository or user is required to be put in place.

4. Three buildings have been identified as having potential for bat roosting and cannot be demolished or have a roost disturbed until a summer bat survey has been concluded. Provision should be made by the *Contractor* for demolishing these structures between the end of September and the end of March.

5. Tree and shrub felling/ clearance works are subject to *key date* and *condition to be met* in the Contract Data. The requirement is to complete these operations before 10 March 2106 an advance of the bird nesting season.

WI 205 General constraints

Use of the site

1. The *Contractor* will restrict areas under his occupation to the *works* boundaries identified on drawing 8414_102 and will maintain a secure /locked access to exclude the public.

3.0 CONTRACT DATA : WORKS INFORMATION

2. The *works* boundaries shown on drawing 8481_102 divide the site into two separate areas to maintain access to Dyden Farm on the retained access road. This is used by staff and delivery vehicles.

3. The *Contractor* may store materials, plant, consumables, welfare facilities and offices necessary for carrying out the *works* within the site under his occupation.

4. The *Contractor* should note there are areas of the Roslin campus that remain in the University of Edinburgh occupation. Access to Dryden farm is also to be maintained and can be used by the *Contractor* over the section adjacent to the site.

Access to the site

1. Access to the campus is from the B7006 at the site access point 200 metres north of Roslin village. This access serves the buildings to be demolished, the buildings to be retained and Dryden farm to the north.

2. The campus access is currently controlled by an intercom operated raise/ lower barrier operated remotely by University of Edinburgh security staff. The existing gatehouse is not manned.

3. The *Employer* requires the *Contractor* to place an operative in the existing gatehouse at the access point to manually override the intercom and raise/lower the barrier for works traffic only.

4. All vehicles visiting the campus or Dryden farm shall continue to use the intercom access system. Appropriate signage for campus or farm visitors is to be provided by the *Contractor* confirming this arrangement.

5. The existing gatehouse shall be manned during the *Contractors* full working day to facilitate ingress and egress of contractor's vehicles into the campus. The barrier shall remain in the lowered position when not in use.

6. Access to the works site shall be taken off the existing lower track highlighted on drawing 8414_102. This track will continue to be used by the University of Edinburgh to service Dryden farm.

7. Access to the B7006 shall be taken from the roundabout at Bilston on the A701.

8. To minimise disruption to Roslin village it is required that all vehicles will return to A701 at the roundabout at Bilston unless the Police or Midlothian Council roads network request otherwise.

Deliveries

1. All site deliveries and material removals are subject to site access constraints and will require to pass the contractor manned access barrier.

3.0 CONTRACT DATA WORKS INFORMATION

Working Hours

1. Permitted working hours are Mon to Sunday 0700 to 1800 hours including public holidays (excludes Christmas and New Year).

2. If the *Contractor* wishes to work out-with these hours prior approval must be obtained from the *Employer*.

Noise and vibration

1. Noise shall be subject to the following requirements

Total Noise Levels at Control Stations				
Period	**Hours**	**Noise Leq Measured at Control Station**	**Period of Hours which Leq is Application**	**Maximum sound level measured at control station**
Monday – Fridays	07.00-18.00	70 dB	12	85 dB
Saturdays	07.00-18.00	70 dB	6	85 dB
Sundays	07.00-18.00	65 dB	6	75 dB
All unattended Plant Outside Normal Working Hours	By prior arrangement only	60 dB	6	75 B

Notes:

1. Noise levels related to free field conditions
2. The ambient noise level, Leq, is the total Leq from all the noise sources in the vicinity over the specified period
3. The existing ambient noise level, Leq, is the total Leq from all the noise sources in the vicinity over the specified period prior to the commencement of the Works.
4. Maximum sound level is the highest value indicated on a sound level meter which meets the requirements of BS EN 60651 Type 1 or set to SLOW response and frequency weighing A or on an integrating – averaging sound level meter to BS EN 60804.
5. Vibration impacts shall be minimised and the *Contractor* shall ensure that methods of working do not cause damage to adjacent properties/ structures.

Parking

1. The *works* site is to be used by the *Contractor* for parking of equipment, plant, together with operatives and visitors vehicles. No vehicles used by operatives, visitors or the *Contractor* or delivery vehicles are to park elsewhere within the campus.

2. Repeated complaints by the facilities manager regarding parking of operatives vehicles in non-approved areas may result in exclusion from the *works.*

3.0 CONTRACT DATA WORKS INFORMATION

Use of Cranes and Lifting Equipment

1. All lifting operations involving lifting equipment must be properly planned by a competent person; appropriately supervised; and carried out in a safe manner.
2. Cranes and lifting accessories such as slings must be of adequate strength, tested and subject to the required examination and inspections.
3. All operators of cranes and other lifting equipment, and people involved in slinging loads and directing lifting operations must be trained and competent.

Storage of fuel and chemicals

1. Fuel shall be stored in bunded tanks not exceeding 1200 litres and all chemicals including fertilisers stored in locked containers.

Pollution, ecological or environmental impacts

1. No burning of any material on the site shall be permitted.
2. All drains, storage tanks, fuel lines, radiators and other possible sources of pollution are to emptied prior to their removal.
3. The contents emptied from drains, storage tanks, fuel lines, radiators and other possible sources of pollution are to be disposed off site to an appropriate waste disposal facility.
4. All trees within the *works* site shall be felled and removed including stumps unless removal of stump directly impacts on a service to be retained.
5. Shrubs and branches from trees etc can be chipped or mulched and the arisings spread on the site in the area where the tree has been felled.
6. All tree works are to take place out with March to July inclusive due to the bird nesting season.
7. Asbestos is present in many of the buildings to be demolished and is covered in WI 275.
8. Buildings 1, 33 and 37 on drawing 8414_101 are identified as having potential for bat roosting (rated low or very low). These buildings are to be demolished between the end of September and beginning of April.
9. The *works* site has been identified as a potential foraging area for badgers occupying setts outwith the site. Open excavations left overnight within the works site are to be provided with timber ramps at gentle gradient (300mm wide at 1:10 max).

Interfaces between the works and existing things

1. Drawing 8481_102 shows the boundaries of the planning application site which are currently fenced and identifies the *works* site(s) within these boundaries.
2. Where roads are identified to remain undisturbed on drawing 8481_102 the kerb and any sub base or capping layer shall remain.
3. The boundaries of the *works* site(s) will be fenced by the C*ontractor* to exclude the public.

3.0 CONTRACT DATA : WORKS INFORMATION

Occupied Premises and users

1. Drawing 8481_102 identifies the northwest edge of the site as where existing buildings are to be retained.
2. These buildings are occupied by the University of Edinburgh and remain in use.

WI 210 Confidentiality

NOT USED

WI 215 Site Security and Protection of the Site

1. The area occupied by the *Contractor* shall be enclosed by 2m high heras fencing where there is no wall greater than 2m in height present. The fence shall be backstayed to prevent collapse due to vandalism or if climbed by foraging badgers.
2. Heras fencing is to be checked daily and repaired at that time. Damaged fence panels are to be replaced immediately if loose wires are present.

WI 220 Security and Identification of People

1. All operatives shall wear a jacket or vest bearing the name of the principle contractor printed on the back. This is to be worn at all times from the time of entering the site
2. All delivery vehicles shall bear the name of the company or operator including hired vehicles.

WI 225 Protection of existing structures and services

Trees and plants

NOT USED

3.0 CONTRACT DATA : WORKS INFORMATION

Privately and Publicly Owned Services and Supplies

1. The names, addresses and telephone numbers of the authorities serving in the locality are listed below:

Name	Address	Contact
BT Openreach	PP GBSC, Alexander Graham Bell House 1 Lochside View Edinburgh Park Edinburgh EH12 9DH networkalts.edinburgh@openreach.co.uk	FAX: 0131 339 1018
Scottish Power	St Vincent Crescent Glasgow G3 8LT gettingconnected@scottishpower.com	TEL: 0141 567 4155 TEL: 0845 270 0785
Scotland Gas Networks	95 Kilbirnie Street Glasgow G5 8JD plantlocation@sgn.co.uk	TEL: 0141 418 4093 TEL: 0845 070 3497
Scottish Water	Service Relocation Team The Bridge Buchanan Gate Business Park Cumbernauld Road Stepps Glasgow G33 6FB service.relocation@scottishwater.co.uk	TEL: 0345 601 8855
Vodafone	Diversionary Works Cost Controller FibreServices UK Technology Vodafone Limited karthikeyan.appasamy@vodafone.com	TEL: 0134 460 2635

2. The contractor is responsible for making contact with all utilities present on the site. The above list is not considered exhaustive of services likely to be present.

3. The *Contractors* attention is drawn to clause WI 110.3. This requires the *Contractor* to enter into a dialogue with each utility provider and The University of Edinburgh to establish the location, ownership and type of each individual utility asset present on the site.

4. Clause WI110.3 also requires the *Contractor* to agree with each utility provider whether or not the asset or part asset is to be retained or removed. If the asset is to be retained confirmation is to be obtained on whether this is to be disconnected or not.

3.0 CONTRACT DATA : WORKS INFORMATION

5. Refer to WI 900 for details of disconnections and alterations agreed by the *Project Manager* with the utility concerned.

6. The *Contractor* is to safeguard all utilities present on the *works* site at the commencement of the works until their future status is agreed. This shall be achieved by exclusion using fencing. Fencing shall be retained until completion around services identified by utility providers to be kept.

WI 230 Protection of the *works*

1. The minimum requirement to be used by the *Contractor* to safeguard services is the use of 1m high orange plastic mesh fencing (min 140g/m2) secured at 5m intervals to steel road pins or attached to 50 x 50mm timber stakes.

2. Permanent concrete markers (985 x 240 x 65mm) 600mm above ground are to be installed prior to completion on the line of retained buried services at 50m intervals.

3. The *Contractor* is to provide a topographic survey referenced to national Grid co-ordinates showing all retained utility chambers or poles visible on the surface and all marker post installed. This shall be issued one week prior to completion.

4. Adequately protect all parts of the works. Whenever work is of a venerable nature or is exposed to abnormal risks provide special protection to ensure that damage does not occur.

WI 235 Cleanliness of Roads

1. The *Contractor* is to keep all roads, pavements, and verges clear of any spillage or droppings from his traffic, and shall clear any such spillage or dropping when it occurs.

2. The *Contractor* is to remove any material likely to spill or drop from his traffic before it leaves the site or travels on any site areas.

3. The *Contractor* will be responsible for making good any damage notified by the *Supervisor* or the *Employer* caused by his traffic travelling within the campus to and from the site of the *works* to roads, footpaths, kerbs and verges.

4. The *Contractor* should note that all vehicles accessing or leaving the *works* site will be regarded as the *Contractor's* in respect of matters relating to cleanliness and damage.

WI 240 Traffic Management

Traffic management responsibility and standards

1. The Contractor is responsible for all traffic management planning, statutory notifications and other notifications, and provision of signage associated with traffic restrictions required by the police or Road Network Management.

3.0 CONTRACT DATA : WORKS INFORMATION

2. The Contractor is responsible for making all applications for

- TTRO's,
- road opening permits,
- section 109 applications,
- hoarding and scaffold applications,
- and crane oversail applications over public highways.

3. Traffic management systems are to comply with Chapter 8 of the Traffic Signs Manual and any other requirements given in the *works* information.

Traffic Safety and Control Officers

1. The *Contractor* is to appoint a Traffic Safety and Control Officer who is based at the Works and a responsible person to act as his deputy. Details of name, address and mobile telephone number shall be notified to the *Employer*.

2. The *Contractor* is to ensure the Traffic Safety and Control Officer or his deputy are available at all times. These persons shall be direct employees, not a Subcontractor and shall be entirely responsible for

- liaison with the *Employer* on all matters relating to traffic management and to ensure the requirements of this clause are complied with,
- management of site traffic during periods when traffic restrictions are necessary and ensuring that all traffic management requirements are met and safety barriers are fit for purpose,
- ensuring the safe working of plant, machinery and personnel and that all personnel engaged on the Works are aware of the *Contractor*'s obligations and duties in respect of site safety when working on or adjacent to live highways,
- notifying the *Contractor*'s Agent and the *Employer* of any deterioration in Traffic Management Equipment and trafficked road surface,
- immediately notifying the *Employer* of any accidents or emergencies,
- ensuring all drivers and operators of delivery vehicle are made aware of all access, operating and cleanliness restrictions and responsibilities,
- and ensure *Employer* or Roads Authority response times are met.

Requirements and procedures for managing traffic

1. All vehicles accessing the site shall operate rotating amber beacon lights and use an audible alarm when reversing.
2. Access routes within the campus shared with the public will require the vehicle to stop when passing pedestrians or cyclist and not exceed 10 mph at any time.

3. Vehicles entering and leaving the *works* site shall do so nose first.

3.0 CONTRACT DATA : WORKS INFORMATION

Access for pedestrians

NOT USED

Temporary hoardings and gantries

NOT USED

Traffic management programme

NOT USED

Lighting

NOT USED

Emergency Procedures

1. The Contractor shall supply and display on site, and to the Employer, the contact details of the Traffic Safety and Control Officers for emergencies outside normal working hours.

WI 245 Condition Surveys

1. These shall take the form of detailed photographic survey cross referenced to written schedule of descriptions supported by a location drawing.
2. Surveys are to be carried out and 1 copy issued on CD to the *Employer* and to the *Project Manager* prior to the *access date* and are required for
   - all service covers and chambers and overhead lines,
   - and all vehicle circulation routes used by the Contractor within the campus.

WI 250 Consideration of Others

1. The *Contractor* is to liaise with the University of Edinburgh to obtain and understand details of regular deliveries and collections to the buildings retained on the campus
2. A meeting shall be arranged by the *Contractor* with the University of Edinburgh to discuss servicing arrangements and establish protocols in order to eliminate potential for conflict. The *Project Manager* will attend this meeting and requires 3 working days' notice.
3. Issues regarding *Contractors* deliveries or access should be discussed with the University of Edinburgh. The outcomes of any discussions with the University of Edinburgh should be reported to the *Project Manager* by the *Contractor*.

3.0 CONTRACT DATA : WORKS INFORMATION

4. Liaison contacts:

Brian L McTeir
Campus Facilities and Services Manager
R(D)SVS and Roslin Institute
The University of Edinburgh
Roslin
Midlothian
UK
EH25 9RG

Tel 0131 650 6135
Mob 0782 438 4577
Fax 0131 651 9105

WI 255 Industrial Relations

NOT USED

WI 260 Control of Site Personnel

NOT USED

WI 265 Site Cleanliness

1. Litter shall not be permitted to accumulate within the area occupied by the *Contractor* or against the exterior face of any temporary fence or structure.

WI 270 Waste Materials

1. The *Contractor* is to operate a documented Environmental Management System for the recycling for all waste materials.
2. Surplus arising's are to be disposed offsite responsibly and where possible recycled.
3. Certificates are to be submitted to the Project Manager weekly during the works showing the nature of each material and final destination.

WI 275 Deleterious and hazardous materials

General

1. The *Contractor* is to comply with the Control of Substances Hazardous to Health Regulations 2002.
2. The *Contractor* is to identify those substances/materials which give rise to potentially hazardous emissions (e.g. fumes, dust etc.).
3. The *Contractor* clearly state in his assessment of risk the controls/procedures which he intends to adopt to reduce such exposure risks and emissions as far as possible.
4. The generation of dust may require the *Contractor* to undertake assessments in respect of The Control of Substances Hazardous to Health Regulations 2002. In such circumstances compliance with the exposure limits of the HSE document EH40/2005 shall be met.

3.0 CONTRACT DATA : WORKS INFORMATION

Asbestos

1. Refer to Redhills Asbestos Survey A -155808 identified in site Information SI 005 for details of the locations and type of asbestos identified as being present.
2. All asbestos removal works are to be carried out by a Licensed Asbestos Removal Contractor (LARC) who shall submit a copy of License to Work with Asbestos to the *Project Manager* at least ten days prior to commencement of the removal works.
3. The *Contractor* shall give HSE the required notification and comply with the Control of Asbestos Regulations 2012. A Plan of Work shall be prepared based upon ALG Memo 04/12.

Invasive plant species
NOT USED

WI 280 Protection of the Existing Environment

1. Prevent over compaction of existing topsoil and subsoil in areas which will be damaged by construction traffic or plant, parking of vehicles, temporary site accommodation or storage of materials by removing the existing topsoil to temporary stockpiles.
2. Preserve and prevent damage to trees, vegetation, and grassed areas. Highlight trees and wood land blocks which are not identified on drawing 8414_102 to be felled by use of orange netting fencing.
3. Damage caused to trees, vegetation, and grassed areas as a consequence of the *Contractor*'s actions, will be notified by the *Supervisor* as a defect, requiring replacement with equivalent species of a similar type and age.

WI 290 Community outreach and engagement
NOT USED.

WI 300 Contractor's Design

NOT USED

WI 400 Completion

WI 405 Completion definition

1. Completion is when the *Contractor* has
   - done all *work* which the works information states he is to do by the Completion Date and,
   - corrected notified Defects which would have prevented the *Employer* from using the *works* and others from doing their works.
2. *Works* which may be incomplete at the completion date are

   NOT USED

3.0 CONTRACT DATA : WORKS INFORMATION

WI 410 Sectional Completion definition

1. Sectional Completion is when the *Contractor* has
   - done all the asbestos removal *work* which the works information states he is to do by the Sectional Completion Date and,
   - corrected notified Defects which would have prevented the *Employer* from using the *works* and others from doing their works and,
   - the asbestos analytical consultant has completed the last 4 - stage site clearance procedure and issued the last certificate required for asbestos removal.
2. *Works* relating to asbestos removal which may be incomplete at the sectional completion date are

   NOT USED

WI 415 Training

NOT USED

WI 420 Final clean

1. Prior to issue of completion certificate the *Contractor* shall undertake a final clean and remove any debris from retained roads or hard surfaces used by his traffic.
2. Areas of the site used for storage shall have all temporary hard standings removed.
3. Temporary fences and temporary structures are to be taken down and removed.

WI 425 Security

NOT USED.

WI 430 Correcting defects

1. Submit a programme of key dates for Defects notified before Completion to the *Employer* and *Project Manager* and
   - advise the University security staff on arrival on each occurrence that operatives are on site to correct any notified defect,
   - notify the *Supervisor* when a notified defect is considered complete,
   - enclose the area of works with barrier type fences and remove on completion of day,
   - any open excavations left overnight are to be enclosed with backstayed heras fences,
   - note vehicle access requirements are to observe all procedures as required for the *works.*

WI 435 Pre-Completion arrangements

NOT USED

3.0 CONTRACT DATA : WORKS INFORMATION

WI 440 Take over

NOT USED

WI 500 Programme

WI 505 Programme requirements

1. The *Contractor* is to include within their programme all elements described in Clause 31.2 of the NEC3 Engineering Construction Contract.
2. The programme shall demonstrate their understanding of the *works,* its sequencing and identify the people and equipment resources to be used for each task.
3. Other information required to be shown on the programme are
   - testing dates in which the *Supervisor* or the delegated Asbestos Analytical Consultant is required to attend site.
   - dates of sectional completions required by the Contract data.
   - *Key dates* and *conditions to be met* identified in Contract data.
4. Programmes are to be submitted electrically in Microsoft office project 2013 version or earlier.

WI 510 Programme arrangement

1. Specific tasks to be shown in the works programme (as a minimum) are all those shown in the activity schedule, including and as well as the following:
   - site set up
   - site surveys/studies
   - submission of method statements
   - statutory notifications
   - utility and services identification/verification,
   - consultations with each utility provider,
   - utilities disconnections for each utility,
   - removal of redundant services
   - task 1 asbestos removal, of pipe insulation and associated debris throughout boiler room and mezzanine level,
   - task 2 asbestos removal, of insulating board ceiling panels,
   - task 3 asbestos removal, of AIB wall and Ceiling panels to office areas,
   - task 4 asbestos removal, of AIB wall and Ceiling panels to office areas,
   - task 5 asbestos removal, of AIB ceiling and wall panels,
   - task 6 asbestos removal, of AIB ceiling panels,
   - task 7 asbestos removal, of insulating board debris to floor,
   - task 8 asbestos removal, of redundant board in ceiling void,
   - task 9 asbestos removal, of all other ACM's on site,
   - 4-stage asbestos clearance testing to each enclosure,
   - strip out to each of the 41 structures,
   - demolition to each of the 41 structures,
   - excavation, removal and backfilling of foundations to each of the 39 structures,
   - removal of hardstandings, paths and roads and backfilling any void created,
   - felling of trees, stump removal and shrub removal,
   - regrading works and
   - demobilisation

3.0 CONTRACT DATA : WORKS INFORMATION

515 Methodology statements

1. Required for asbestos removal in form of plan of work as ALG Memo 04/12.
2. Required for demolition works in a form appropriate for submission to Midlothian Council Building Control for use in finalising the demolition warrant. This is required in advance of award.
3. Required for control of dust and based upon Institute of Air Quality Management publication "Guidance on the assessment of dust from demolition and construction"
4. Required for any traffic management put in place and identify
   - any phasing,
   - closures,
   - haulage routes,
   - timing restrictions and,
   - wheel cleaning or washing and road cleaning.
5. Methodology statements for items 1, 3 and 4 are be submitted to the *Project Manager* within 20 days from the *starting date*.
6. Methodology statements for item 2 are be submitted to the *Project Manager* prior to appointment. Refer to Clause PROJ 1.4 in the ITT document and WI 105.

WI 520 Works of the *Employer* and others

NOT USED

WI 525 Information required

NOT USED

WI 530 Revised programme

1. Revised programmes shall be accompanied by
   - written summary of changes made to the previous programme,
   - explanation of the changes made and,
   - reason(s) for the changes including unique compensation event reference number where appropriate.

WI 600 Quality management

WI 605 Samples

NOT USED

WI 610 Quality statement

NOT USED

3.0 CONTRACT DATA : WORKS INFORMATION

WI 615 Quality management system

1. A Quality Management System satisfying the requirements of ISO 9001:2000 is to be utilised for the *works.*

WI 620 Setting out information

WI 625 Planting species substitutions

NOT USED

WI 700 Tests and inspections

WI 705 Tests and inspections

A. Samples of plant or materials provided by the *Contractor*

Material for backfilling voids

1. Material provided by the *Contractor* shall be inert graded material Type 6F2 in accordance with the Specification. The material shall be tested, and certified free of contamination.

2. Sampling, testing, recording and reporting using accredited processes is required at rate of 1 per 100m^3.

3. Refer to Appendix B for details of testing requirements.

B. Samples of materials excavated or recovered from the *works* by the *Contractor*

Materials arising

1. Materials arising from the demolition *works* will require sampling and laboratory testing to ensure all materials moved off site are safe and will not present future hazards to receptors.

2. Sampling, testing, recording and reporting using accredited processes is required at rate of 1 per 500m^3.

3. Refer to Appendix B for details of testing requirements.

C. Samples of workmanship

1. Samples of workmanship shall be presented for approval in the working area at least five working days in advance of the programmed task commencement where feasible
2. The *Project Manager* and *Supervisor* will be in attendance. The delegated Asbestos Analytical consultant will review and comment on all matters relating to asbestos removal.
3. The objective will be to review compliance to specification and establish baseline standard expected to be maintained for carrying out all the *works.*

3.0 CONTRACT DATA : WORKS INFORMATION

4. Sample panels of min 1.5 x 1.5m are to be presented for
   - removal of foundations and floor slabs including backfill with 6f2 to solum,
   - grubbing up or removal of buried services,
   - regrading the final surface,
   - and tree stump removal.

5. Samples are to be presented for
   - inspection panels for viewing enclosed working areas,
   - enclosure and air locks,
   - wetting technique,
   - connection of hygiene facility to enclosure,
   - and signage.

D. Equipment, Plant and Materials outside the Working Areas before payment or delivery

NOT USED

E. Plant and Materials and Work prior to completion

NOT USED

F. Work in the working area

1. The Asbestos /Analytical Consultant will carry out a 4-stage site clearance procedure on completion of asbestos removal for each enclosure.

2. Details of the testing to be undertaken is given in sections 2.9 to 2.13 of Appendix C.

3. Details of the conditions and equipment to be to be provided by the *Contractor* to permit testing is given in sections 2.9 to 2.13 of Appendix C.

4. Details of the procedures and protocols applying to failed tests are given in sections 2.9 to 2.13 of Appendix C.

G. Performance Tests

1. These tests are applicable to Option X17.
2. The Asbestos /Analytical Consultant will witness in each enclosure
   - air test levels not to exceed 0.010 f/cm3,
   - smoke test,
   - visual inspection and
   - differential pressure on the enclosure.

3.0 CONTRACT DATA : WORKS INFORMATION

WI 710 Management of tests and inspections

1. The *Project Manager* and *Supervisor* will carry out inspections as the works progress and the *Supervisor* will issue a *defects* notice when appropriate.
2. Prior to backfilling of voids created by the removal of foundations, floor slabs, services or tree stumps the Supervisor is to be notified that the works are ready for final inspection.
3. Prior to Completion a *defects* inspection shall be held with the *Contractor* to which the *Employer* will be invited to inspect all of the works. The *Contractor* shall confirm the date of this inspection giving 5 working days' notice.
4. The *Supervisor* will issue a *defects* notice for each defect found.
5. The Asbestos /Analytical Consultant will conduct all inspections and testing relating to asbestos removal and issue clearance testing certification.

WI 715 Covering up completed work

1. Works to backfill voids created by the removal of foundations, floor slabs, services or tree stumps are to commence within 5 working days of receipt of the *supervisors* report.

WI 720 *Supervisor's* procedures for inspections and watching tests

1. Give 3 working days' notice.
2. *Supervisor's* report or notice will be issued within 3 working days

WI 800 Management of the *works*

WI 805 Project Team – Others

1. Asbestos/Analytical Consultant (AC) undertaking asbestos monitoring and reporting will be Redhill Analyst Ltd.
2. Redhill Analyst Ltd will be a delegate of the *Supervisor* in this capacity only and will issue defects notices if deemed necessary. They will also issue asbestos clearance certification.

WI 810 Communications
Progress Meetings

1. Progress meetings are to be held with the *Employer* in attendance on a four weekly basis. The initial meeting will occur during week 2. The *Project Manager* will issue an agenda prior to each meeting.
2. The *Project Manager* is responsible for the production and circulation of minutes of progress meetings. Minutes of progress meetings will be usually issued within 5 working days of the meeting.
3. The *Contractor* is responsible for providing accommodation and refreshments and the site agent or site manager is expected to attend.

3.0 CONTRACT DATA : WORKS INFORMATION

4. The *Contractor* is to prepare a written report for distribution at progress meetings addressing

    - actual progress against planned as a percentage,
    - summary of progress to date compared with programme,
    - programme review and milestones reached in the period,
    - contractual issues including payment applications,
    - list of compensation events notified since last meeting,
    - summary of plant and labour for the period,
    - daily site weather log with cumulative total of lost time to weather,
    - status of material deliveries and any quality issues,
    - details of Subcontractors updated as necessary,
    - requests for information and technical queries,
    - health and safety matters,
    - meetings, inspections and testing results,
    - and include colour photographs of key works carried out in the period.

Information requirements

1. Technical queries, requests for information or confirmation records made by the *Contractor* are to be submitted electronically in writing on an appropriate pro forma showing

    - *Contractor*'s name,
    - project title and reference number,
    - name of issuer,
    - date of issue,
    - and must include the period for reply stated in Contract Data Part 1.

2. Early warning notifications, compensation event notifications and items to be added to the risk register are to be submitted electronically in writing on an appropriate pro forma showing

    - *Contractor*'s name,
    - project title and reference number,
    - name of issuer,
    - date of issue,
    - type of notification clearly shown and given a unique reference number,
    - and must include the period for reply stated in Contract Data Part 1.

Site meetings

1. Site meetings to discuss the works will occur between progress meetings with the *Contractor*'s agent or his nominated delegate in his absence.

2. Site meetings may be with the *Project Manager* or the *Supervisor*, usually weekly and on ad hoc basis if a particular area of the works requires site discussion following earlier submission of a formal query.

3. Actions arising from site meetings are to be confirmed by the *Contractor* via email or record sheet. The *Project Manager* will always confirm via email.

3.0 CONTRACT DATA : WORKS INFORMATION

4. All communications and responses are to be issued within one working day of the meeting

Applications for payment

1. Applications for payment are to be submitted electronically in Microsoft excel.

WI 900 Working with the *Employer* and others

WI 905 Sharing the Working Areas with the *Employer* and others

NOT USED

WI 910 Co-operation

NOT USED

WI 915 Co-ordination

1. The *Employer* requires the *Contractor* speak to the University of Edinburgh prior to commencement to establish site entry requirements, special events requiring noise to be limited and protocols to be observed.

2. WI 250 requires the *Contractor* to arrange a meeting with the University of Edinburgh and identifies the liaison contact details.

WI 920 Authorities and utilities providers

Utility supplies and diversionary works

1. The *Contractor* is to make arrangements with the Statutory Undertakers and others for the co-ordination of all work which needs to be done by any authority or utility provider concurrently with the *works*.

2. The *Contractor* is to make arrangements with the Statutory Undertakers and others concerned for the phasing of all necessary disconnections and diversion of public or private services affected by the *works* where shown in the Works Information .

3. Disconnected apparatus shall be removed by the *Contractor* only with the prior consent of the Authority or owner concerned.

4. Utilities services and private supplies believed to be affected by the *works* are detailed in table WI 920-1. Drawings used to obtain estimated costs from utility providers are identified against each utility.

5. Drawing 8481_107 provides an overview of all works required to statutory utility assets and private supplies owned by the University of Edinburgh.

6. Trail holes are to be made by the *Contractor* to determine the location of all utility and private assets within 20 working days of the access date and are to be supplied to *the Project Manager.*

3.0 CONTRACT DATA : WORKS INFORMATION

Table WI 920-1

Utility	Description	Group *	Drawing No.	Notice Required to Commence	Time for Completion
Scottish Power	11Kv overhead 11Kv underground Low voltage u/ground	C C C	8414_104	12 weeks	Before completion
Openreach	BT overhead BT underground	C C	8414_105	8 weeks	Before completion
University of Edinburgh	Foul sewer	E	8414_106	Contractors choice	Before completion
Vodafone	Underground	C	8414_108	12 weeks	Before completion
Scottish Gas, redundant supply pipe	Low pressure	E	8414_107	Contractors choice	Disconnected and purged by Scottish Gas upto sub staion
University of Edinburgh	Private Water Distribution	E	8414_109	Contractors choice	Before completion

Group *
A Work expected to be completed before the *access date*.
B Work required after the *access date* requiring no prior *work* by the *Contractor*.
C Work required after the *access date* requiring prior *work* by the *Contractor*.
D Work expected to be in progress at the *access date*.
E *Work* to be wholly undertaken by the *Contractor*.

7. Works to public utilities identified in table WI 920-1 have been notified to the authority or utility provider concerned by the *Project Manager* and a quotation requested.

8. The *Contractor* is responsible for making payment of estimated utility provider's disconnection costs the value of which is to be included in the Activity Schedule and placing of acceptances or confirming orders. The *Project Manager* will issue the original quotation estimates with an instruction.

9. The *Contractor* is to issue an early warning notification to the *Project Manager* regarding any change to utility costs or scope of works from the original estimate made by the utility or authority.

10. The *Contractor* is responsible for all works to private services to individual properties shown in the Works Information and identified as private in table WI 920-1.

3.0 CONTRACT DATA : WORKS INFORMATION

Unrecorded services

11. The *Contractor* is responsible for dealing with authorities and utilities providers and owners of private services regarding unrecorded services when encountered.
12. The *Contractor* is to issue an early warning notification to the *Project Manager* at the time the unrecorded service is found.

WI 1000 Services and other things to be provided

W1005 Services and other things for the use of the *Employer*, *Project Manager* or Others to be provided by the *Contractor*

Equipment for Checking of Setting Out

NOT USED

Personal Protective Equipment

1. The *Contractor* shall provide the *Project Manager* with

- 3 No. Gore Tex Hi –Visibility waterproof jacket,
- 3 No. Gore Tex Hi –Visibility waterproof over trousers,
- 3 No. Safety Helmet to BE EN 397,
- 3 No. Lace up safety boots and,
- safety glasses, overalls and gloves when requested.

CCTV Sewer survey and pressure jetting equipment

2. The *Contractor* shall provide the *Project Manager* with

- CCTV sewer survey and pressure jetting equipment for 15 days, with allowance for 3 visits to provide the 15 days.
- CCTV survey equipment shall offer GPS enabled sewer mapping options,
- GPS mapping shall have an accuracy of +/- 05m horizontally and shall be co-ordinated to OS grid and presented as .CSV and identify all features encountered,
- CCTV survey outputs are to be plotted onto DVD and shall confirm pipe sizes and depth from chambers and all features and highlight problems found,
- CCTV survey is to be issued in DVD format and
- pressure jetting using high pressure tanker offering root and hard deposit removal capability of 5,000psi at 22 gallons per minute from a minimum 1200 gallon tank.

WI 1010 services and other things to be provided by the *Employer*

NOT USED

3.0 CONTRACT DATA : WORKS INFORMATION

WI 1100 Health and safety

WI 1105 Health and safety requirements

***Employer*'s safety requirements**

1. The *Contractor* is to supply, erect and maintain 2000mm high safety barrier fencing (heras or similar type) on any open area of the site where the public have access or where enclosing walls or fences are lower than 2m. Fencing shall be solid panel or otherwise visually blocked along the complete line that separates the Works from the Wallace and Logan Buildings and from the road connecting the two buildings.

2. It is the *Contractors* responsibility to ensure that access to the works site is closed off at all appropriate times.

3. The *Contractor* will be required to provide all health and safety signage in relation to the works.

Reporting requirements

1. Copies of site inspection reports prepared by the Company's Health and Safety Officer are to be issued to the *Project Manager* within one week of the inspection.
2. RIDDOR reportable accidents and any recorded accidents to workers are to be notified to the *Project Manager* on the day they occur.
3. All accidents involving members of the public are to be notified to the *Employer* and the *Project Manager* on the day they occur. This is required whether or not the accident requires treatment.
4. All visits to the *works* by HSE are to be reported to the *Project Manager* within one working day. HSE reports are to be copied and issued to the *Project Manager* within one working day of the *Contractor* receiving the report.

Safety Management, Supervision and Qualifications

1. The Contractor shall operate a Safety Management System which takes cognisance of the guidance given in HSE publication managing for health and safety (HSG65).

2. There is no requirement to follow a national or international standard although this may be desirable.

3. The *Contractors* Safety Management System shall take full cognisance of HSE publication Control of Asbestos Regulations 2012. Approved Code of Practice and Guidance.

4. All supervisors and site managers shall be competent for the task to be undertaken as defined by HSE.

WI 1110 Method Statements

General

1. The *Contractor* is to submit risk assessments and method statements (RAMS) of all operations to the *Employer* for approval at least 5 working days prior to the task commencement and issue copies to the *Project Manager*.

3.0 CONTRACT DATA : WORKS INFORMATION

2. Where the works may affect the general public, suitable safety arrangements shall be employed (e.g., scaffolds in the case of falling objects) and shall be detailed in appropriate Method Statements.
3. The *Contractor* will make amendments to update the Health and Safety Plan as may be necessary over the course of the works. These are to be issued at least two working days in advance of the task commencing or recommencing.

Asbestos removal

1. All work procedures and activities, including roles, responsibilities and communications regarding the *Works* are to be included within the Licenced Asbestos Removal Contractor site specific Plan of Work Method Statement.
2. Where the Licenced Asbestos Removal Contractor becomes aware of significant hazards, which have not been adequately dealt with he shall inform the Asbestos Analytical Consultant, and the *Contractor* immediately.
3. Unforeseen significant hazards, which become evident throughout the course of the work shall be notified to the Asbestos Analytical Consultant and the *Contractor* immediately by the Licenced Asbestos Removal Contractor.
4. Amendments made to the Plan of Works will be advised to the Asbestos Analytical Consultant at least five working days before the Works are undertaken.
5. A competent person who holds a current asbestos licence from the HSE shall undertake the erection of scaffolding to provide safe access to undertake asbestos removal work.
6. The Licenced Asbestos Removal Contractor shall operate a Permit to Work system for any Hot Works, if applicable. Such Permits shall only be issued if a Safe System of Working has been defined and approved by a "competent person".

WI 1115 Legal requirements

1. Residual risks are identified on drawing 8414_101.
2. The Pre Construction Information (PCI) will be issued by the Principle Designer on behalf of the Employer as a separate and stand-alone document.
3. The appointed *Contractor* will be appointed as Principal *Contractor* under the CDM Regulations 2015.
4. Notifications regarding asbestos removal *works* are to be made to HSE by the *Contractor.*

WI 1120 Inspections

NOT USED

WI 1125 Record drawings

1. Mark up on drawings any changes made during the *works* to the routes of drainage lines, utilities or ducts.

3.0 CONTRACT DATA : WORKS INFORMATION

2. Mark up on drawings the routes or locations where existing services have been encountered and retained.
3. Retain these drawings on site throughout the period of the Works and hand over to the *Employer* on completion of the Works and for inclusion in the Health and safety file if so required.

WI 1200 Subcontracting

WI 1205 restrictions or requirements for subcontracting

NOT USED

WI 1210 acceptance procedures

NOT USED

WI 1300 Title

WI 1305 Marking

NOT USED

WI 1310 Materials from excavation and demolition

1. The Employer wishes to salvage

- 1 Nr diesel generator unit; location TBC

2. The *Contractor* is to disconnect, remove, palletise and delivery the generator to University of Edinburgh, Easter Bush, Midlothian EH25 using a vehicle with a tail lift or hiab unit..

3. Salvaged materials on pallets shall be shrink wrapped or secured using a banding system. Pallets and bands will not be returned.

4. The *Contractor* shall have title to all other materials arising from demolition or excavation *works.*

WI 1400 Acceptance or Procurement Procedure (Options C, D E and F)

NOT USED

WI 1500 Accounts and records (Options C, D E and F)

WI 1505 Labour and Equipment returns

NOT USED

3.0 CONTRACT DATA : WORKS INFORMATION

WI 1600 Parent Company Guarantee (Option X4)

NOT USED

WI 1700 Performance Bond (Option X13)

NOT USED

WI 1800 Advance Payment Bond (Option X14)

NOT USED

WI 1900 Low Performance Damages (Option X17)

WI 1905 Failures affecting works of Asbestos/ Analytical Consultant

1. The *Contractor* shall note the Technical Specification for Abatement of Asbestos WI 2010, clause 2.6.2 lists 6 parameters whereby the *Contractor* may be charged for additional analytical services.
2. Items 1 to 4 and item 6 in WI 2010 clause 2.6.2 relate to failures by the *Contractor* to achieve the required background control conditions for air monitoring sampling to occur. This may result in additional costs to be met by the *Employe*r for analytical services.
3. Should the failures identified in Items 1 to 4 and item 6 of WI 2010 clause 2.6.2 result in additional costs to the *Employer,* these costs together with additional *Project Manager* costs incurred would be recovered from the *Contractor* under Option X 17.
4. The costs which will be deducted from payments certificates for Items 1 to 4 and item 6 of WI 2010 clause 2.6.2 are stated in Contract Data part 1.
5. The sixth parameter noted in WI 2010 clause 2.6.2 is programme related. This is covered by the requirement for a sectional completion for asbestos removal works and the application of delay damages in accordance with Options X5 and X7 if found necessary.

WI 2000 *Employer's* work specifications and drawings

WI 2005 *Employer's* work specifications

The demolition specification is included within Appendix B of the works information.

The material testing specification is included within Appendix B of the works information.

The Technical Specification for the Abatement of Asbestos is included within Appendix C of the works information.

WI 2010 Drawings

8414_101: Building Layout Plan

8414_102: Site Plan

8414_103: Demolition Warrant Site Plan

8414_104: Scottish Power Works

8414_105: BT Openreach Works

8414_106: Drainage Works

8414_107: Existing Services, overview of works

8414_108: Vodafone Works

8414_109: Water Mains Investigations (Contractor Works)

8414_110: Infill and reshaping works

Digital copies of the Drawings are located within the folder within the Works Information called 'IFL Drawings'

4.0 CONTRACT DATA : SITE INFORMATION

SI 000 SITE INFORMATION

Refer to Site information pack issued with tender document which contains the following:

SI 005 Asbestos survey

1. Redhills asbestos survey (document A – 155808).

SI 010 University of Edinburgh Record drawings

2. Thomas & Adamson drawing E9028A/005 (pdf).
   This drawing shows the location (in 1998) of proposed new water supply stop valves together with other information regarding site services pre-dating the drawing. It is not thought to be wholly accurate, although many features are verifiable on site.

3.	D. G. Ffiske	1968: 7 x A1 drawings.
4.	Thorburn	1978: 1 x A1 drawings 5 x A0 drawings
5	MSS	1988: 3 x A1 drawings
6	MSS	1995: 6 x A1 drawings
7	Struer	2000: 13 x A1 drawings 2 x A3 drawings

SI 015 Tree survey

8. Alan Motion tree survey (04/06/2013).

SI 020 Demolition Warrant Application

9. Initial application for demolition warrant has been made by the *Project Manager* on behalf of the *Employer* to Mid Lothian Council. Copies of the submission are included in the site information pack. The warrant application drawing is included in the works information

10. Discussions with Midlothian Council Building Control have established the documents included in the site information pack are adequate for registering the application.

SI 025 Gas Pipe Documentation

11. Letter issued by Scottish Gas.

The following site information should be noted:

SI 030 Site History and Site photograph

12. The site was used as an agricultural research establishment and an aerial photograph of the site is included in the works information.

SI 035 Planning consent and notifications

13. Planning consent is not required for these works.
    Notification to demolish the one dwellinghouse on the site is not necessary as it was ancillary to the non-residential use of other buildings on the same site.

SI 040 Planning conditions

14. Not Applicable

4.0 CONTRACT DATA : SITE INFORMATION

SI 045 Contamination

15. Asbestos is present, refer to SI 005.
There are no known contamination issues requiring a Remediation Action Plan to be prepared.

SI 050 Contamination

16 Schedule of unconfirmed observations regarding existing building construction

APPENDIX B : DEMOLITION SPECIFICATION AND MATERIALTESTING

Ironside Farrar: NBS Specification (Contained as separate document)

Ironside Farrar: Contamination Testing

Contamination Testing

1. For material assumed to be from a former agricultural research facility tables 1 to 3 represent the potential contaminants and general tests required for material to be taken off-site to land fill. These tests are to be used to classify the waste according to SEPA technical document WM2: Hazardous waste Interpretation of the definition and classification of hazardous waste (3rd Edition 2013).

2. Depending on the classification, the appropriate WAC test suite should be done, i.e. either inert WAC suite or hazardous WAC suite (from Table 4).

3. The WAC testing can be scheduled alongside the general testing for characterisation. If an inert landfill is being considered for non-hazardous waste the contractor shall schedule a 'Full WAC Suite' from Table 4. If the contractor is not considering disposal to an inert landfill, then he shall schedule a 'Hazardous WAC Suite' (Table 4).

4. WAC tests only need to be carried out if disposal is to landfill. For other disposal options, the material would need to be shown to be suitable for use and would require testing for herbicides and pesticides. If water environment receptors are identified leachate tests would also be needed.

5. For material from other sources, likely potential contaminants should be considered. These might include asbestos, PCBs, VOCs, SVOCs.

Table 1 – Metals, pH and organic matter

Determinand	Limits of Detection and units required	Accreditation required
Arsenic	1 mg/kg	yes
Boron	1mg/kg	yes
Cadmium	0.5 mg/kg	yes
Chromium (III)	1mg/kg	yes
Lead	1mg/kg	yes
Mercury	0.5mg/kg	yes
Selenium	0.5mg/kg	yes
Copper	1mg/kg	yes
Nickel	1mg/kg	yes
Zinc	1mg/kg	yes
Phenol	1mg/kg	yes
Cyanide	1mg/kg	yes
pH	0.1pH units	yes
Organic matter content	0.5%	yes

Table 2 - Speciated Petroleum Hydrocarbons Suite (EA banding according to CIEH/ LQM aliphatic/ aromatic split)

Determinand	Limits of Detection and units required	Accreditation required
Aliphatic:		
VPH EC 5-6	10μg/kg	yes
VPH EC >6-8	10μg/kg	yes
VPH EC >8-10	10μg/kg	yes
EPH EC >10-12	1.0mg/kg	yes
EPH EC >12-16	1.0mg/kg	yes
EPH EC >16-35	1.0mg/kg	yes
EPH EC >35-44	1.0mg/kg	yes
Aromatic :		
VPH EC 5-7	10μg/kg	yes
VPH EC >7-8	10μg/kg	yes
VPH EC >8-10	10μg/kg	yes
EPH EC >10-12	1.0mg/kg	yes
EPH EC >12-16	1.0mg/kg	yes
EPH EC >16-21	1.0mg/kg	yes
EPH EC >21-35	1.0mg/kg	yes
EPH EC >35-44	1.0mg/kg	yes
Total TPH	50mg/kg	yes

Table 3 - Speciated Polyaromatic Hydrocarbons (PAH)

Soil Determinand	Limits of Detection and units required	Accreditation required
Acenaphthene	0.01mg/kg	yes
Acenaphthylene	0.01mg/kg	yes
Anthracene	0.01mg/kg	yes
Benzo(a)anthracene	0.01mg/kg	yes
Benzo(a)pyrene	0.01mg/kg	yes
Benzo(b) fluoranthene	0.01mg/kg	yes
Benzo(g,h,i)perylene	0.01mg/kg	yes
Benzo(k) fluoranthene	0.01mg/kg	yes
Chrysene	0.01mg/kg	yes
Dibenzo(a,h)anthracene	0.01mg/kg	yes
Fluoranthene	0.01mg/kg	yes
Fluorene	0.01mg/kg	yes
Indeno(1,2,3)-cd-	0.01mg/kg	yes

pyrene		
Naphthalene	0.01mg/kg	yes
Phenanthrene	0.01mg/kg	yes
Pyrene	0.01mg/kg	yes

Table 4 - Waste acceptance criteria (WAC) tests

Suite (see above)	**Limits of Detection and units offered/ ~~required~~**	**Accreditation offered**
Hazardous waste solid analysis	various	In part
Inert Waste solid Analysis	various	In part
Combined solid waste analysis	various	In part

APPENDIX C : ASBESTOS ABATEMENT SPECIFICATION

Redhill Document :Technical Specification for Abatement of Asbestos

APPENDIX D: NAMED SUB - CONTRACTORS AND SUPPLIERS

Named Sub – Contractors and Suppliers

Area of Work	Name and address of Sub-*Contractor* and supplier and key contacts in each organization.

[Note: include one Sub-Contractor only for each area of work.]

APPENDIX E : PRICED EVENT FOR USE WITH SSCC

Priced Event for use with Shorter Schedule of Cost Components

In addition to the published lists identified in the Contract Data the *Contractor* shall provide rates for the following key plant / labour and work items for the project.

These rates shall be 'defined costs' for the purposes of the Contract.

Items must all be priced and are to be used for valuing compensation events.
Items should be priced at cost as will be subject to the tendered percentages entered in the Contract Data.

The total of this schedule shall be used determine the most financially favourable offer. The methodology as described in Appendix 4 of Guidance notes for NEC Engineering and Construction Contract will be used.

Rates inserted here will be used by the *Project Manager* in the evaluation of Contractors quotations and value of Compensation Events.

Description	Unit	Qty	Rate	£
People				
Site Agent	hr	100		
Working Foreman	hr	100		
Site Engineer	hr	100		
Working Ganger	hr	100		
General Labourer	hr	100		
Skilled Labourer	hr	100		
Kerb Layer	hr	100		
Joiner / Carpenter / Steel fixer	hr	100		
Lorry Driver	hr	100		
Dumper Driver	hr	100		
Excavator Operator	hr	100		
Electrician	hr	100		
Stonemason	hr	100		
Blacksmith	hr	100		
Additional rate per hour for all categories of labour outside specified times (8.00am - 6.00pm Monday - Friday, 8.00am - 12 noon Saturday).	Rate Only			
Equipment				
12.5 tonne wheeled excavator	hrs	100		
14 tonne tracked excavator	hrs	100		
21 tonne tracked excavator	hrs	100		
7.5 tonne dumper	hrs	100		
0.4 tonne Telescopic self-propelled access platform	hrs	100		
18 tonne rubber wheeled mobile crane	hrs	100		
25 tonne rubber wheeled mobile crane	hrs	100		
Site Accommodation	week	1		
Heras Fencing (150 linear metres)	week	1		
Tubular scaffold (500 linear metres)	week	1		

Total of Priced Event	

APPENDIX F: *CONTRACTORS* RISK REGISTER

Contractors risk register

APPENDIX G : CONTRACTORS PROGRAMME

APPENDIX H : *CONTRACTORS* METHOD STATEMENTS