



Public Works and Government Services Canada

Requisition No. EZ899-151784

MERX I.D. No. _____

SPECIFICATIONS


For

AAFC Building Demolition Project

Pacific Agri-Food Research Centre, Agassiz, BC.


Project No. R.071945.001

APPROVED BY:


Regional Manager A & E Services

2014-12-19

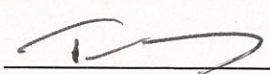
Date


Regional Construction Safety Coordinator

2014/12/19

Date

TENDER:


Project Manager

17/12/22

Date

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1.1 CODES

- .1 Perform work to CURRENT Codes, Construction Standards and Bylaws, including Amendments up to the TENDER closing date.

1.2 DESCRIPTION OF WORK

- .1 Work under this Contract covers:
 - .1 Demolish the following structures at 3670 Chaplin Rd, Agassiz, BC as shown in the Appendices and as specified herein:
 - .1 Residential Building 40.
 - .2 Storage Building 41.
 - .2 Including but not limited to:
 - .1 Demolish basement, foundations complete and dispose all building materials from site.
 - .2 Remove and dispose all Mechanical and Electrical equipment and services.
 - .3 Remove and dispose sidings, windows, doors and interior coverings and finishes.
 - .4 Remove and dispose structural (wood) framing.
 - .3 Locate the septic tank associated with Building 40, remove sewerage and sludge and dispose off-site. Remove and dispose the septic tank and all underground piping.
 - .4 Terminate and cap all utility services associated with the buildings to be demolished.
 - .5 Remove and dispose all debris, waste and redundant utility services within 15 meters of the Buildings.
 - .6 Restore site and excavated areas with compacted backfill, grading and natural vegetation.
 - .7 Building 42 and its connected utility services are to remain un-touched and protected from damage in the demolition of adjacent Building 41.

1.3 CONTRACT DOCUMENTS

- .1 The Contract documents, drawings and specifications are intended to complement each other, and to provide for and include everything necessary for the completion of the work.
- .2 Drawings are, in general, diagrammatic and are intended to indicate the scope and general arrangement of the work.

1.4 DIVISION OF SPECIFICATIONS

- .1 The specifications are subdivided in accordance with the current 6-digit National Master Specifications System.

- .2 A division may consist of the work of more than 1 subcontractor. Responsibility for determining which subcontractor provides the labour, material, equipment and services required to complete the work rests solely with the Contractor.
- .3 In the event of discrepancies or conflicts when interpreting the drawings and specifications, the specifications govern.

1.5 TIME OF COMPLETION

- .1 Complete the demolition and site restoration works within 8 weeks of Contract Award.

1.6 HOURS OF WORK

- .1 Restrictive as follows:
 - .1 Schedule deconstruction, removal and construction work after normal working hours of the building and during the day on weekends and/or holidays. Normal weekday working hours of the building are 7:30 am to 4:00 pm.
 - .2 Notify Departmental Representative of all after hours work, including weekends and holidays.

1.7 WORK SCHEDULE

- .1 Carry on work as follows:
 - .1 Within 10 working days after Contract award, provide a schedule showing anticipated progress stages and final completion of the work within the time period required by the Contract documents. Indicate the following:
 - .1 Commencement and completion of work of each section of the specifications or trade for each phase as outlined.
 - .2 Final completion date within the time period required by the Contract documents.
 - .2 Do not change approved Schedule – without notifying Departmental Representative.
 - .3 Interim reviews of work progress based on work schedule will be conducted as decided by Departmental Representative and schedule updated by Contractor in conjunction with and to approval of Departmental Representative.

1.8 COST BREAKDOWN

- .1 Before submitting the first progress claim, submit a breakdown of the Contract lump sum prices in detail as directed by the Departmental Representative and aggregating Contract price.

1.9 CODES, BYLAWS, STANDARDS

- .1 Perform work in accordance with the National Building Code of Canada (NBC) 2010, and other indicated Codes, Construction Standards and/or any other Code or Bylaw of local application.
- .2 Comply with applicable local bylaws, rules and regulations enforced at the location concerned.

- .3 Meet or exceed requirements of Contract documents, specified standards, codes and referenced documents.
- .4 In any case of conflict or discrepancy, the most stringent requirements shall apply.

1.10 DOCUMENTS REQUIRED

- .1 Maintain 1 copy each of the following at the job site:
 - .1 Contract drawings.
 - .2 Contract specifications.
 - .3 Addenda to Contract documents.
 - .4 Copy of approved work schedule.
 - .5 Change orders.
 - .6 Other modifications to Contract.
 - .7 One set of record drawings and specifications for "as-built" purposes.
 - .8 National Building Code of Canada 2010.
 - .9 Current construction standards of workmanship listed in technical Sections.
 - .10 Building Safety Plan.

1.11 REGULATORY REQUIREMENTS

- .1 Obtain and pay for – Building Permit, Certificates, Licenses and other permit required by regulatory municipal, provincial or federal authorities to complete the work.
- .2 Provide inspection authorities with plans and information required for issue of acceptance certificates.
- .3 Furnish inspection certificates in evidence that the work installed conforms with the requirements of the authority having jurisdiction.

1.12 CONTRACTOR'S USE OF SITE

- .1 Use of site:
 - .1 Exclusive and complete for execution of work.
 - .2 Assume responsibility for assigned premises for performance of this work.
 - .3 Be responsible for coordination of all work activities on site, including the work of other contractors engaged by the Departmental Representative.
 - .4 Water and electricity is available from an adjacent building. Obtain permission from AAFC Site Representative and make connections as needed with minimum interruption to existing services.
 - .5 Obtain permission for parking of vehicles from AAFC Site Representative and park in designated area only. Ensure traffic on vehicular access to all roads or trails is not blocked at all times.
- .2 Perform work in accordance with Contract documents.
- .3 Do not unreasonably encumber site with material or equipment.

1.13 EXAMINATION

- .1 Examine site and be familiar and conversant with existing conditions likely to affect work

1.14 EXISTING SERVICES

- .1 Where work involves breaking into or dis-connecting from existing services, carry out work at times directed by the authorities having jurisdiction.

1.15 QUALITY OF WORK

- .1 Ensure that work is performed through use of skilled trades, under supervision of qualified journeyman.
- .2 The work quality, methods and procedures to meet minimum standards set out in the National Building Code of Canada 2010.
- .3 In cases of dispute, decisions as to standard or quality of work rest solely with the Departmental Representative, whose decision is final.

1.16 WORKS COORDINATION

- .1 Work coordination:
 - .1 Ensure cooperation between trades in order to facilitate general progress of Work and avoid situations of spatial interference.
 - .2 Ensure that each trade provides all other trades reasonable opportunity for completion of Work and in such a way as to prevent unnecessary delays, cutting, patching and removal or replacement of completed work.
 - .3 Ensure disputes between subcontractors are resolved.
- .2 Departmental Representative is not responsible for, or accountable for extra costs incurred as a result of Contractor's failure to coordinate Work.

1.17 PROJECT MEETINGS

- .1 Contractor will arrange project meetings and assume responsibility for setting times and recording and distributing minutes.

1.18 CLEANING

- .1 Daily conduct cleaning and disposal operations. Comply with local ordinances and anti-pollution laws.
- .2 Ensure cleanup of the work areas each day after completion of work.

1.19 SECURITY FENCING

- .1 Not used.

1.20 ENVIRONMENTAL PROTECTION

- .1 Do not dispose of waste or volatile materials into watercourses, storm or sanitary sewers.
- .2 Ensure proper disposal procedures in accordance with all applicable provincial regulations.

1.21 HAZARDOUS MATERIAL DISCOVERY

- .1 There have been a Hazardous Material Assessment on the buildings and the hazardous materials that were found present have been removed from a previous Contract. There is no known hazardous building materials now present in the buildings to be demolished. If there is valid reason to suspect that hazardous materials are encountered during demolition activities, work on these materials must STOP and remain undisturbed until testing confirms the presence or absence of the hazardous material. Contractor shall be responsible to arrange and pay for such testing. Department Representative will issue instruction on how to proceed with the works if the test result confirms the presence of hazardous material. Removal of any hazardous material will have to comply with WorkSafeBC regulations.

1.22 ADDITIONAL DRAWINGS

- .1 The Departmental Representative may furnish additional drawings for clarification. These additional drawings have the same meaning and intent as if they were included with plans referred to in the Contract documents.
- .2 Upon request, Departmental Representative may furnish up to a maximum of 5 sets of Contract documents for use by the Contractor at no additional cost. Should more than 5 sets of documents be required the Departmental Representative will provide them at additional cost.

1.23 BUILDING SMOKING ENVIRONMENT

- .1 Smoking within the building is not permitted.

1.24 SYSTEM OF MEASUREMENT

- .1 The metric system of measurement (SI) will be employed on this Contract.

1.25 FAMILIARIZATION WITH SITE

- .1 Before submitting tender, visit site – as indicated in tender documents and become familiar with all **conditions likely to affect the cost of the work.**

1.26 SUBMISSION OF TENDER

- .1 Submission of a tender is deemed to be confirmation of the fact that the Tenderer has analyzed the Contract documents and inspected the site, and is fully conversant with all conditions.

2 PRODUCTS
.1 NOT USED

3 EXECUTION
.1 NOT USED

END OF SECTION

END OF SECTION

1 GENERAL

1.01 REFERENCES

- .1 Government of Canada
 - .1 Canada Labour Code, Part 2 Canada Occupational Safety and Health Regulations.
 - .2 Canada Occupational Health and Safety Regulations.
- .2 National Building Code of Canada (NBC) 2010
 - .1 Part 8 – Safety Measures at Construction and Demolition Sites.
- .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .4 Province of British Columbia
 - .1 Workers Compensation Act Part 3 – Occupational Health and Safety, RSBC 1996 – Current Edition.
- .5 Canadian Standards Association (CSA) as amended:
 - .1 CSA Z797-2009 Code of Practice for Access Scaffold.
 - .2 CSA S269.1-1975 (R2003) Falsework for Construction Purposes.
 - .3 CSA S350-M1980 (R2003) Code of Practice for Safety in Demolition of Structures.
- .6 American National Standards Institute (ANSI):
 - .1 ANSI A10.3 Operations – Safety Requirements for Powder-Actuated Fastening Systems.

1.02 RELATED SECTIONS

- .1 Section 02 41 99 – Demolition for Minor Works.
- .2 Section 02 83 10 – Lead Base Paint Abatement – Minimum Precautions.
- .3 Section 07 92 00 – Joint Sealants.
- .4 Section 09 91 00 – Painting.

1.03 WORKER'S COMPENSATION BOARD COVERAGE

- .1 Comply fully with the Workers' Compensation Act, regulations and orders made pursuant thereto, and any amendments up to the completion of the work.
- .2 Maintain Workers' Compensation Board coverage during the term of the Contract, until and including the date that the Certificate of Final Completion is issued.

1.04 COMPLIANCE WITH REGULATIONS

- .1 PWGSC may terminate the Contract without liability to PWGSC where the Contractor, in the opinion of PWGSC, refuses to comply with a requirement of the Workers' Compensation Act or the Occupational Health and Safety Regulations.

- .2 It is the Contractor's responsibility to ensure that all workers are qualified, competent and certified to perform the work as required by the Workers' Compensation Act or the Occupational Health and Safety Regulations.

1.05 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit to Departmental Representative, submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Work affected by submittal shall not proceed until review is complete.
- .3 Submit the following:
 - .1 Health and Safety Plan.
 - .2 Copies of reports or directions issued by Federal and Provincial health and safety inspectors.
 - .3 Copies of incident and accident reports.
 - .4 Complete set of Material Safety Data Sheets (MSDS), and all other documentation required by Workplace Hazardous Materials Information System (WHMIS) requirements.
 - .5 Emergency Procedures.
- .4 The Departmental Representative will review Contractor's site-specific Health and Safety Plan and emergency procedures and provide comments to Contractor within seven (7) business days after receipt of plan. Revise plan as appropriate and resubmit to Departmental Representative.
- .5 Medical Surveillance: where prescribed by legislation, regulation or safety program, submit certification of medical surveillance for site personnel prior to commencement of Work, and submit additional certifications for any new site personnel to Departmental Representative.
- .6 Submission and resubmission of the Health and Safety Plan to the Departmental Representative is for information and reference purposes only. It shall not:
 - .1 Be construed to imply approval by the Departmental Representative.
 - .2 Be interpreted as a warranty of being complete, accurate and legislatively compliant.
 - .3 Relieve the Contractor of his legal obligations for the provision of health and safety on the project.

1.06 RESPONSIBILITY

- .1 Assume responsibility as the Prime Contractor for work under this contract.
- .2 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .3 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.07 HEALTH AND SAFETY CO-ORDINATOR

- .1 The Health and Safety Coordinator/Registered Occupational Hygienist/Certified Industrial Specified Hygienist must:

- .1 Be responsible for completing all health and safety training sessions and ensuring that personnel not successfully completing required training are not permitted to enter site to perform Work.
- .2 Be responsible for implementing, enforcing daily and monitoring site-specific Health and Safety Plan.
- .3 Be on site during execution of Work.

1.08 GENERAL CONDITIONS

- .1 Provide safety barricades and lights around work site as required to provide a safe working environment for workers and protection for pedestrian and vehicular traffic.
- .2 Ensure that non-authorized persons are not allowed to circulate in designated construction areas of the work site.
 - .1 Provide appropriate means by use of barricades, fences, warning signs, traffic control personnel, and temporary lighting as required.
 - .2 Secure site at night time as deemed necessary by Departmental Representative to protect site against entry.

1.09 PROJECT/SITE CONDITIONS

- .1 Work at site will involve:
 - .1 Agriculture and Agri-Food Canada.
 - .2 Departmental Representative.

1.10 REGULATORY REQUIREMENTS

- .1 Comply with specified codes, acts, bylaws, standards and regulations to ensure safe operations at site.
- .2 In event of conflict between any provision of the above authorities, the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, the Departmental Representative will advise on the course of action to be followed.

1.11 WORK PERMITS

- .1 Obtain and pay for specialty permits related to project before start of work.

1.12 FILING OF NOTICE

- .1 The Contractor is to complete and submit a Notice of Project as required by provincial authorities.
- .2 Provide copies of all notices to the Departmental Representative.

1.13 HEALTH AND SAFETY PLAN

- .1 Conduct a site-specific hazard assessment based on review of Contract documents, required work, and project site. Identify any known and potential health risks and safety hazards.
- .2 Prepare and comply with a site-specific project Health and Safety Plan based on hazard assessment, including but not limited to, the following:
 - .1 Primary requirements:
 - .1 Contractor's safety policy.

- .2 Identification of applicable compliance obligations.
- .3 Definition of responsibilities for project safety/organization chart for project.
- .4 General safety rules for project.
- .5 Job-specific safe work, procedures.
- .6 Inspection policy and procedures.
- .7 Incident reporting and investigation policy and procedures.
- .8 Occupational Health and Safety Committee/Representative procedures.
- .9 Occupational Health and Safety meetings.
- .10 Occupational Health and Safety communications and record keeping procedures.
- .2 Summary of health risks and safety hazards resulting from analysis of hazard assessment, with respect to site tasks and operations which must be performed as part of the work.
- .3 List hazardous materials to be brought on site as required by work.
- .4 Indicate engineering and administrative control measures to be implemented at the site for managing identified risks and hazards.
- .5 Identify personal protective equipment (PPE) to be used by workers.
- .6 Identify personnel and alternates responsible for site safety and health.
- .7 Identify personnel training requirements and training plan, including site orientation for new works.
- .3 Develop the plan in collaboration with all subcontractors. Ensure that work/activities of subcontractors are included in the hazard assessment and are reflected in the plan.
- .4 Revise and update Health and Safety Plan as required, and re-submit to the Departmental Representative.
- .5 Departmental Representative's review: the review of Health and Safety Plan by Public Works and Government Services Canada (PWGSC) shall not relieve the Contractor of responsibility for errors or omissions in final Health and Safety Plan or of responsibility for meeting all requirements of construction and Contract documents.

1.14 EMERGENCY PROCEDURES

- .1 List standard operating procedures and measures to be taken in emergency situations. Include an evacuation plan and emergency contacts (i.e. names/telephone numbers) of:
 - .1 Designated personnel from own company.
 - .2 Regulatory agencies applicable to work and as per legislated regulations.
 - .3 Local emergency resources.
 - .4 Departmental Representative site staff.
- .2 Include the following provisions in the emergency procedures:
 - .1 Notify workers and the first-aid attendant, of the nature and location of the emergency.
 - .2 Evacuate all workers safely.
 - .3 Check and confirm the safe evacuation of all workers.
 - .4 Notify the fire department or other emergency responders.
 - .5 Notify adjacent workplaces which may be affected if the risk extends beyond the workplace.
 - .6 Notify Departmental Representative site staff.
- .3 Provide written rescue/evacuation procedures as required for, but not limited to:
 - .1 Work at high angles.

- .2 Work with hazardous substances.
- .4 Revise and update emergency procedures as required, and re-submit to the Departmental Representative.

1.15 HAZARDOUS PRODUCTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of hazardous regarding labelling and provision of Material Safety Data Sheets (MSDS) acceptable to the Departmental Representative and in accordance with the Canada Labour Code.
- .2 Where use of hazardous and toxic products cannot be avoided:
 - .1 Advise Departmental Representative beforehand of the product(s) intended for use. Submit applicable MSDS and WHMIS documents as per Section 01 33 00 - Submittal Procedures.
 - .2 In conjunction with Departmental Representative, schedule to carry out work during "off hours" when tenants have left the building.
 - .3 Provide adequate means of ventilation in accordance with Section 01 51 00 - Temporary Utilities.

1.16 ELECTRICAL SAFETY REQUIREMENTS

- .1 Comply with authorities.
 - .1 Maintain electrical safety procedures and take necessary precautions to ensure safety of all personnel working under this Contract, as well as safety of other personnel on site.

1.17 OVERLOADING

- .1 Ensure no part of work is subjected to a load which will endanger its safety or will cause permanent deformation or damage to existing structure and finishes.

1.18 FALSEWORK

- .1 Design and construct falsework in accordance with CSA S269.1.

1.19 SCAFFOLDING

- .1 Design, construct and maintain scaffolding in a rigid, secure and safe manner, in accordance with CSA Z797 and B.C. Occupational Health and Safety Regulations.

1.20 FIRE SAFETY REQUIREMENTS

- .1 Store oily/paint-soaked rags, waste products, empty containers and materials subject to spontaneous combustion in ULC approved, sealed containers and remove from site on a daily basis.
- .2 Handle, store, use and dispose of flammable and combustible materials in accordance with the National Fire Code.

1.21 FIRE PROTECTION AND ALARM SYSTEM

- .1 Fire protection and alarm systems shall not be:
 - .1 Obstructed.
 - .2 Shut off.

- .3 Left inactive at the end of a working day or shift.
- .2 Do not use fire hydrants, standpipes and hose systems for purposes other than firefighting.
- .3 Be responsible / liable for costs incurred from the fire department, Departmental Representative resulting from false alarms.

1.22 UNFORESEEN HAZARDS

- .1 Should any unforeseen or peculiar safety-related factor, hazard or condition become evident during performance of the work, immediately stop work and advise the Departmental Representative verbally and in writing.

1.23 POSTED DOCUMENTS

- .1 Post legible versions of the following documents on site:
 - .1 Health and Safety Plan.
 - .2 Sequence of work.
 - .3 Emergency procedures.
 - .4 Site drawing showing project layout, locations of the first-aid station, evacuation route and marshalling station, and the emergency transportation provisions.
 - .5 Notice of Project.
 - .6 Site plans.
 - .7 Notice as to where a copy of the Workers' Compensation Act and Regulations are available on the work site for review by employees and workers.
 - .8 Workplace Hazardous Materials Information System (WHMIS) documents.
 - .9 Material Safety Data Sheets (MSDS).
 - .10 List of names of Joint Health and Safety Committee members, or Health and Safety Representative, as applicable.
- .2 Post all Material Safety Data Sheets (MSDS) on site, in a common area, visible to all workers and in locations accessible to tenants when work of this Contract includes construction activities adjacent to occupied areas.
- .3 Postings should be protected from the weather, and visible from the street or the exterior of the principal construction site shelter provided for workers and equipment, or as approved by the Departmental Representative.

1.24 MEETINGS

- .1 Attend health and safety pre-construction meeting and all subsequent meetings called by the Departmental Representative.

1.25 CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by the Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non-compliance with health and safety issues identified.
- .3 The Departmental Representative may issue a "stop work order" if non-compliance of health and safety regulations is not corrected immediately or within posted time. The General Contractor/subcontractors will be responsible for any costs arising from such a "stop work order".

2 PRODUCTS

2.01 NOT USED

.1 Not used.

3 EXECUTION

3.01 NOT USED

.1 Not used.

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Access and Delivery

1.3.1.1. Only the designated entrance may be used for access to Site.

1.3.1.2. Maintain for duration of Contract.

1.3.1.3. Make good damage resulting from Contractor's use.

1.3.1.4. Use of the Site will be granted to the Contractor through the Departmental Representative.

1.3.1.5. Obtain permission for parking of vehicles on the Site from AAFC and in designated area only.

1.4. Installation and Removal

1.4.1. Provide temporary utilities controls in order to execute work expeditiously.

1.4.2. Remove from site all such work after use.

1.5. Dewatering

1.5.1. Provide temporary drainage and pumping facilities to keep excavations and Site free from standing water.

1.6. Storage Facilities

1.6.1. Storage space will be limited to the area of construction.

1.7. Power

1.7.1. Power is available on site. Obtain permission from Departmental Representative before usage.

1.8. Water Supply

1.8.1. Water supply available on site. Obtain permission from Departmental Representative before usage.

1.9. Sanitary Facilities

1.9.1. Sanitary facilities are not available at existing Site and must be supplied at no cost.

1.10. Removal of Temporary Facilities

1.10.1. Remove temporary facilities from Site when determined by the Departmental Representative.

1.11. Signs and Notices

1.11.1. Signs and notices for safety and instruction will be in both official languages or graphic symbols conforming to CAN/CSA-Z321.

- 1.11.2. Maintain accepted signs and notices in good condition for duration of project, and dispose of offsite on completion of project or when determined by Departmental Representative.

1.12. Fire Protection

- 1.12.1. Provide and maintain temporary fire protection equipment during performance of Work required by governing codes, regulations and bylaws.

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

- 3.1.1. Not Used

END OF SECTION

1.1 RELATED WORK

- .1 All Specification Sections, refer to Table of Contents.

1.2 DEFINITIONS

- .1 Waste Audit (WA): relates to projected waste generation. It involves controlled separation of waste.
- .2 Waste Reduction Workplan (WRW): a written report which addresses opportunities for reduction, re-use or recycling of materials.

1.3 MATERIALS SOURCE SEPARATION

- .1 Before project start-up, prepare Materials Source Separation Program. Provide separate containers for re-usable and/or recyclable materials of the following:
 - .1 Gypsum board.
 - .2 Metals.
 - .3 Wood.
 - .4 Plastics
 - .5 Other materials as indicated in technical sections.
- .2 Implement Materials Source Separation Program for waste generated on project in compliance with approved methods and as approved by Departmental Representative.
- .3 Locate containers in locations, to facilitate deposit of materials without hindering daily operations.
- .4 Locate separated materials in areas which minimize material damage.

1.4 DIVERSION OF MATERIALS

- .1 Create a list of materials to be separated from the general waste stream and stockpiled in separate containers, to the approval of the Departmental Representative and consistent with applicable fire regulations.
 - .1 Mark containers.
 - .2 Provide instruction on disposal practices.

1.5 STORAGE, HANDLING AND APPLICATION

- .1 Do work in compliance with Waste Reduction Workplan.
- .2 Handle waste materials not re-used, salvaged, or recycled in accordance with appropriate regulations and codes.
- .3 Materials in separated condition: collect, handle, store on site, and transport off-site to an approved and authorized recycling facility.
- .4 Materials must be immediately separated into required categories for re-use or recycling.

- .5 Unless specified otherwise, materials for removal become the Contractor's property.
- .6 On-site sale of salvaged/recyclable material is not permitted.
- .7 **Provide Departmental Representative with receipts** indicating quantity of material delivered to landfill.
- .8 **Provide Departmental Representative with receipts** indicating quantity and type of materials sent for recycling.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Methods and procedures for removal of existing buildings as described in the Contract Documents and as specified herein.

1.2 RELATED SECTIONS

- .1 All Sections Refer to Table of Contents

1.3 CODES, REFERENCES, and STANDARDS

- .1 Government of British Columbia
 - .1 British Columbia Building Code (BCBC)
 - .1 Part 8 - Safety Measures at Construction and Demolition Sites.
 - .2 Worker's Compensation Board (WCB)
- .2 Canadian Standards Association (CSA)
 - .1 CSA S350-M1980(R2003), Code of Practice for Safety in Demolition of Structure.

1.4 DEFINITIONS

- .1 Alternate Disposal: reuse and recycling of materials by designated facility, user or receiving organization which has valid Certificate of Approval to operate. Alternative to landfill disposal.
- .2 Deconstruction: systematic dismantling of structure to salvage materials for reuse. What cannot be reused is considered subsequently for recycling. Ultimate objective is to recover potentially valuable resources while diverting from landfill what has traditionally been significant portion of waste stream.
- .3 Demolition: rapid destruction of structure with or without prior removal of hazardous materials.
- .4 Disassembly: physical detachment of materials from structure and may include: prying, pulling, cutting, un-screwing.
- .5 Hauler: company (possessing appropriate and valid Certificate of Approval) contracted to transport waste, reusable or recyclable materials off site to designated facility, user or receiving organization.
- .6 Hazardous Materials: dangerous substances, dangerous goods, hazardous commodities and hazardous products, may include but not limited to: poisons, corrosive agents, flammable substances, ammunition, explosives, radioactive substances, or other material that can endanger human health or well-being or environment if handled improperly.
- .7 Processing: tasks which are subsequent to disassembly and may include: moving materials, de-nailing, cleaning, separating and stacking.

- .8 Recyclable: ability of product or material to be recovered at end of its life cycle and re manufactured into new product for reuse by others.
- .9 Recycle: process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products.
- .10 Recycling: process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for purpose of using altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- .11 Reuse: repeated use of product in same form but not necessarily for same purpose. Reuse includes:
- .12 Salvaging reusable materials from remodelling projects before the demolition stage, for resale, reuse on current project or for storage for use on future projects.
- .13 Returning reusable items may include pallets and unused products to vendors.
- .14 Salvage: removal of structural and non structural structure materials from industrial, commercial and institutional structure deconstruction/disassembly projects for purpose of reuse or recycling.
- .15 Source Separation: acts of keeping different types of waste materials separate beginning from first time they become waste.
- .16 Used Building Material Receipt: receipt issued at end destination for materials designated for alternate disposal.
- .17 Waste Audit (WA): detailed inventory of materials in building. Involves quantifying (by volume or weight) amounts of materials and wastes generated during deconstruction. Indicates quantities of reuse, recycling and landfill.
- .18 Waste Management Co-ordinator (WMC): contractor representative responsible for supervising waste management activities as well as coordinating related, required submittal and reporting requirements.
- .19 Waste Reduction Workplan (WRW): written report which outlines actions to be taken to reduce, reuse and recycle materials during course of deconstruction. Actions based on finding of the Waste Audit (WA).
- .20 Weigh Bill: receipt received from recycling facility indicating weight and content of each load/bin of material.

1.5 PROJECT CONDITIONS

- .1 Accept the site as it exists and be responsible for all demolition work as shown on the drawings and as specified herein.
- .2 Existing Condition:

Buildings and structures and services to be deconstructed on their condition on the date of site visit during Bid period and at the time of Tender Award. Be responsible for provision of services required for deconstruction.

- .3 Make arrangements through the Departmental Representative to visit the site prior to submission of a bid and take whatever time is required to ascertain the site conditions and surrounding features related to the proposed demolition and new construction work and ensure that conditions are suitable for execution of the work. No additional sums of money will be allowed for after acceptance of bid for any items resulting from lack of understanding and familiarity with the site conditions, and failing to report immediately to the Departmental Representative any discrepancies observed on site that are in conflict with the intent of drawings and specifications.
- .4 Maintain public safety and traffic control precautions at all times during the demolition work, using properly trained qualified persons to control all Contractor's activities, vehicles, equipment, traffic and all public pedestrian and vehicles traffic that are coming to and from the site or passing along the vicinity of the site access locations.
- .5 Provide and maintain necessary perimeter protection including hoarding, guard railing, screen cover, lights and warning signs during execution of the work to fully protect all persons.
- .6 Maintain unobstructed safe site access for personnel and removal of materials.
- .7 Take precautions to guard against movement, settlements, collapse and damage to adjacent structures, services, utilities, streets, lanes, crosswalks, curbs, paving, landscaping and construction designated to remain.
- .8 Prevent debris from accumulating and blocking surface drainage systems and blocking safe exit passage to adjoining streets and property.
- .9 Location of existing site utilities are not guaranteed nor is their existence confirmed. Verify the existence of all known service utilities by site examination and review of applicable site servicing engineering drawings available from the municipality, the Owner and utility companies prior to submission of a bid and prior to the commencement of the Work to identify exact locations.
- .10 Protect and maintain existing active services designated to remain or as required to facilitate the Work.
- .11 Keep utility and service outages to a minimum. Outages will be permitted only with written permission from the Departmental Representative. Make outage requests at least 7 calendar days before date of proposed outage.
- .12 Suppress all dust and dirt. Prevent the occurrence of unsanitary conditions, flooding or leaking.
- .13 Do not allow dirt, debris or discarded materials to accumulate on site. Remove promptly.

- .14 Keep fire extinguishing suppression equipment on hand at all times.
- .15 Provide illumination for safe demolition and working conditions, but in no case less than prescribed by WCB regulations in areas where Work is being done.

1.6 SUBMITTALS

- .1 Where required by authorities having jurisdiction, submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning.
- .2 Demolition Trade/General Contractor to employ a Structural Engineer registered in the Province of British Columbia to design any required temporary supports to secure any part of the existing building or structure, until new work of the Contract is implemented to satisfaction of the Project Engineer.
 - .1 Submit Schedule S-B prior to commencement of demolition/retrofit and Schedule S-C on completion of demolition.

1.7 CLOSEOUT SUBMITTALS

- .1 "As demolished" drawings, showing items removed.
- .2 Submit schedule S-C from the Trade/General Contractor's Structural Engineer.
- .3 Receipts from Recycling, Waste Disposal Facilities showing recycling or disposal of materials in compliance with all Provincial and Federal Government Regulations.

1.8 WASTE MANAGEMENT

- .1 Separate and handle waste materials in accordance with Section 01 74 19 Waste Management and Disposal.

2 PRODUCTS

2.1 MATERIALS

- .1 Coordinate with Departmental Representative for any recovery of existing materials, fittings, fixtures and equipment to be salvaged during the demolition operation. All materials forming part of this section of the Work shall become the Contractor's property and shall be removed entirely from the site and disposed of in a legal manner to an approved disposal site as applicable.

3 EXECUTION

3.1 EXAMINATION

- .1 Examine the Work and notify the Departmental Representative of any conditions affecting the performance of the Work. Review the drawings and determine the total content of Work to follow.
 - .1 Develop strategy for deconstruction to facilitate optimum salvage of reusable and recyclable materials.
- .2 Site verify and locate all existing services, utilities and facilities affecting the Work:
 - .1 Ensure all services, whether built-in or exposed, are properly located and marked as to position, type of service, size, direction of flow.
 - .2 When working in the vicinity of services and utilities, clearly mark, locate and expose all existing utilities using hand labour as required. Maintain and protect all services and utilities encountered in the work.
- .3 Inspect materials, equipment, components to be reused or turned over to the Department. Note their conditions and advise the Departmental Representative in writing of any defects or conditions which would affect removal and reuse.

3.2 PREPARATION

- .1 Ensure that affected services and utilities designated for removal have been disconnected prior to the commencement of Work, including:
 - .1 Disconnect and re route electrical and telephone service lines to property line in accordance with authority having jurisdiction. Post warning signs on electrical lines and equipment which must remain energized to serve other properties during period of demolition.
 - .2 Disconnect and cap natural gas supply lines: remove to property line in accordance with authority having jurisdiction.
 - .3 Disconnect and cap sewer and water lines: remove to property line in accordance with authority having jurisdiction.
 - .4 Remove and dispose of other underground services as directed by Departmental Representative.
 - .5 Do not disrupt active or energized utilities designated to remain undisturbed.
- .2 Locate and protect existing utilities designated to remain in service. Preserve active utilities traversing the site in operating condition throughout construction.
- .3 Cut and cap existing services in accordance with applicable utility and municipal requirements. Prior to commencement of demolition work, ensure that all services and utilities affected by the work have been disconnected, capped and sealed off or properly protected.

3.3 PROTECTION

- .1 Prevent movement, settlement or damage of neighbours fences, landscaping, and adjacent grades.
 - .1 Provide bracing, shoring and under-pinning as required.
 - .2 Repair damage caused by demolition as directed by Departmental Representative.

3.4 DEMOLITION

-
- .1 Remove items as indicated.
 - .2 Do not disturb items designated to remain in place.
 - .3 Breakup large pieces of demolished material for handling and to prevent overloading and damage to existing construction.
 - .4 Schedule and execute all work in a careful manner with all necessary consideration to prevent injury or damages to persons and to surrounding property. Do not interfere with the use of and passage to and from adjoining buildings, driveways, sidewalks and other facilities.
 - .5 Demolish in a manner as to minimize dusting. Keep dusty materials, areas or site wetted down thoroughly as applicable to prevent dust and dirt rising. Provide temporary waterline where required for this purpose and remove upon completion of this work.
 - .6 Salvage and Reuse:
 - .1 Carefully remove existing materials and equipment to be retained for future use.
 - .2 Where any material, component, or assembly is indicated for retention or reuse, removal shall be by a trade that normally provides or installs such an item.
 - .3 Store such items being reused in a protected area until ready to be reinstalled into the new construction proposed.
 - .4 Salvaged items designated for turnover to the Department at a location on the site as directed by the Departmental Representative.
 - .7 Do not let piled material endanger structure or persons at any time.
 - .8 Remove stockpiled material when it interferes with operations of project.
 - .9 Prevent debris from blocking any existing surface drainage catch basins or systems.
 - .10 Ensure that partial or incomplete demolished structures are stable upon completion of each day's work by taking requires safety measures such as temporary shoring if required to ensure the structures are and will remain in a stable condition for a normal or extended period of inactivity should a delay be caused to the progress of the work.
 - .11 Prevent contamination with base course aggregates, when removing asphalt pavement for subsequent incorporation into hot mix asphalt concrete paving,
 - .12 Remove only as many trees as required to facilitate demolition.
 - .1 Obtain written approval of Departmental Representative prior to removal of trees.
 - .2 Grind, chip, or shred other vegetation for mulching and composting.
 - .13 Stockpile topsoil for final grading and landscaping.
-

3.5 REVIEW

- .1 Contractor to notify Departmental Representative at least 24 hours in advance of any necessary reviews of the work.

3.6 CLEANING

- .1 Upon completion of demolition, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Provide site grading as indicated on the Architectural drawings and as specified herein.

1.2 RELATED SECTIONS

- .1 All Sections Refer to Table of Contents

1.3 QUALITY ASSURANCE

- .1 Be responsible for the adequate control of dust for the duration of this Contract. Such control shall be to the approval of the Departmental Representative and shall be adequate to avoid inconvenience and complaints from adjoining property, or the local authority.

2 PRODUCTS

2.1 MATERIALS

- .1 Fill: free draining granular fill material 76 mm (3") minus, containing not more than 5%, by dry weight, passing #200 sieve and having no organic content.
- .2 Topsoil: To better or match existing.
- .3 Use soil treatments and procedures that are not harmful to health, are not injurious to plants, and do not endanger wildlife, adjacent watercourses or ground water.

3 EXECUTION

3.1 EXAMINATION

- .1 Verify site conditions.
- .2 Verify that survey benchmark and intended elevations for the Work are as indicated.

3.2 PREPARATION

- .1 Identify required lines, levels, contours, and datum.
- .2 Utilities:
 - .1 Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.
 - .2 Stake and flag locations of known utilities.
 - .3 Protect above and below grade utilities that remain.

- .3 Protect plant life, lawns, and other features that are to remain, in addition to those features specifically noted to be protected for the duration of the work.

3.3 FILLING

- .1 Fill areas to contours and elevations as indicated.
- .2 Place fill material on continuous layers and compact.
- .3 Maintain optimum moisture content of fill materials to attain required compaction density.
- .4 Make grade changes gradual. Blend slope into level areas.
- .5 Restore areas and existing works outside areas of demolition to conditions that existed prior to beginning of Work match condition of adjacent, undisturbed areas.
- .6 Remove surplus fill materials from site.

3.4 REVIEW

- .1 Contractor to notify Departmental Representative at least 24 hours in advance of any necessary reviews of the work.

3.5 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION

1 GENERAL

1.1 SECTION INCLUDES

- .1 Supply and Installation of Hydraulic Seeding and related components as shown on the Architectural Drawings and as specified herein.

1.2 RELATED SECTIONS

- .1 All Sections Refer to Table of Contents

1.3 CODES, REFERENCES, and STANDARDS

- .1 Canada Seed Act
- .2 British Columbia Landscape Standard, 6th edition, 2001

1.4 QUALITY ASSURANCE

- .1 Scheduling:
 - .1 Schedule hydraulic seeding to coincide with preparation of soil surface.
 - .2 All seeding shall be done during calm weather and on soil that is free of frost, snow and standing water, when seasonal conditions are likely to ensure successful germination and continued growth of all species of seed in the grass mix.
 - .3 Schedule hydraulic seeding using grass mixtures after frost has left ground and before June 15th or between September 1st and October 15th. Note that unanticipated variances in weather may require that alternate dates be considered.

1.5 PROJECT/ SITE ENVIRONMENTAL REQUIREMENTS

- .1 Do not perform work under adverse field conditions such as wind speeds over 10 km/h, frozen ground or ground covered with snow, ice or standing water.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Seed shall be packed and delivered in original containers clearly showing:
 - .1 Name of supplier
 - .2 Analysis of seed mixture
 - .3 Percentage of pure seed
 - .4 Year of production
 - .5 Net weight (mass)
 - .6 Date and location of bagging

2 PRODUCTS

- .1 Seed: "Canada pedigreed grade" in accordance with Government of Canada Seeds Act and Regulations.
 - .1 Grass seed for all seeded lawn areas shall meet the requirements of the Canada Seed Act for Certified Canada No. 1 Seed.

- .1 Mixture composition:
 - .1 30% Kentucky Bluegrass
 - .2 30% Hard Fescue
 - .3 40% Perennial Rye Grass
- .2 Mulch: specially manufactured for use in hydraulic seeding equipment, non-toxic, water activated, green colouring, free of germination and growth inhibiting factors with following properties:
 - .1 Type I mulch:
 - .1 Made from wood cellulose fibre.
 - .2 Organic matter content: 95% plus or minus 0.5%.
 - .3 Value of pH: 6.0.
 - .4 Potential water absorption: 900%.
 - .2 Type II mulch:
 - .1 Made from newsprint, raw cotton fibre and straw, processed to produce fibre lengths of 15 mm minimum and 25 mm maximum. Greater proportions of ingredients to be straw.
- .3 Tackifier: water soluble vegetable carbohydrate powder.
- .4 Water: free of impurities that would inhibit germination and growth.
- .5 Fertilizer:
 - .1 The type, formulation and rate of application of fertilizer shall be as recommended by the laboratory soil specialist on the basis of tests of the growing medium.
- .6 Inoculants: inoculant containers to be tagged with expiry date.

3 EXECUTION

3.1 EXAMINATION

- .1 Examine the Work and notify the Departmental Representative of any conditions affecting the performance of the Work.

3.2 PREPARATION

- .1 Cultivate areas identified as requiring cultivation to depth of 25 mm.
- .2 Obtain Departmental Representative's approval of grade and topsoil depth before starting to seed.

3.3 SLURRY APPLICATION

- .1 Ensure seed is placed under supervision of certified Landscape Planting Supervisor.
- .2 Seed fine grade areas free of humps and hollows.
 - .1 Ensure areas are free of deleterious and refuse materials.

- .3 Apply slurry uniformly, at optimum angle of application for adherence to surfaces and germination of seed.
 - .1 Using correct nozzle for application.
 - .2 Using hoses for surfaces difficult to reach and to control application.
- .4 Blend application 300 mm into adjacent grass areas or sodded areas to form uniform surfaces.
- .5 Immediately remove any material sprayed where not intended as directed by Departmental Representative.
- .6 Hydraulic seeding equipment:
 - .1 Slurry tank.
 - .2 Agitation system for slurry to be capable of operating during charging of tank and during seeding, consisting of recirculation of slurry and/or mechanical agitation method. Capable of seeding by 50 m hand operated hoses and appropriate nozzles.
 - .3 Tank volume to be certified by certifying authority and identified by authorities "Volume Certification Plate".

3.4 PROTECTION OF WORK

- .1 Protect seeded areas from trespass until plants are established.
- .2 Remove protection devices as directed by Departmental Representative.

3.5 REVIEW

- .1 Contractor to notify Departmental Representative at least 24 hours in advance of any necessary reviews of the work.

3.6 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

3.7 MAINTENANCE DURING ESTABLISHMENT PERIOD

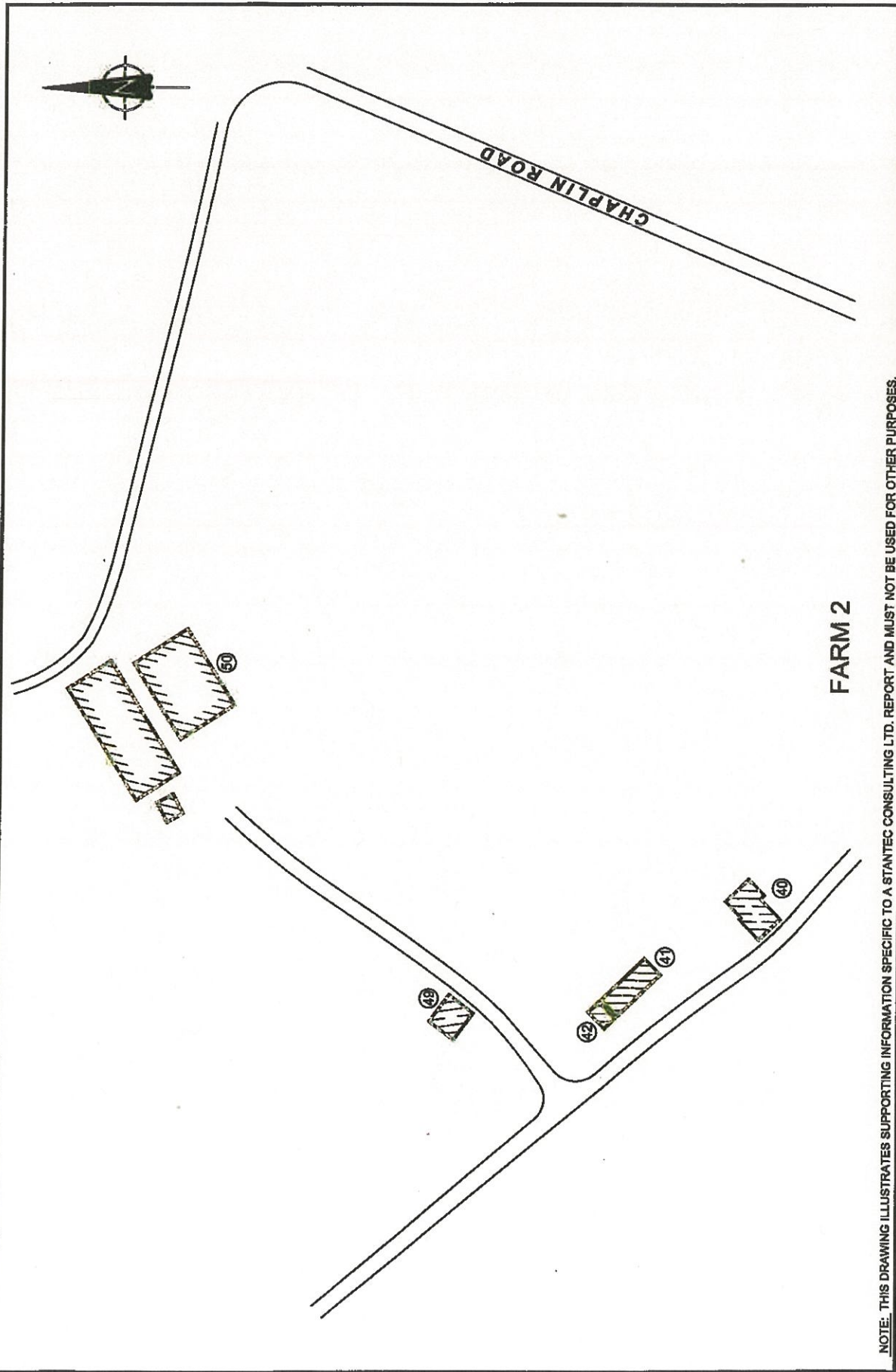
- .1 Ensure maintenance is carried out under supervision of certified Landscape Maintenance Supervisor.
- .2 Perform following operations from time of seed application until acceptance by Departmental Representative.
- .3 Grass Mixture:
 - .1 Repair and reseed dead or bare spots to allow establishment of seed prior to acceptance.
 - .2 Mow grass to 60 mm whenever it reaches height of 100 mm. Remove clippings which will smother grass offsite.
 - .3 Fertilize seeded areas after in accordance with fertilizing program. Spread half of required amount of fertilizer in one direction and remainder at right angles; water in well.

- .4 Control weeds by mechanical or chemical means utilizing acceptable integrated pest management practices.
- .5 Water seeded area to maintain optimum soil moisture level for germination and continued growth of grass. Control watering to prevent washouts.


END OF SECTION

Appendix A

Site Plan and Photo



NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

| | | | | |
|--|----------------------------------|-----------|-------------------------------------|---|
| <div>SITE PLAN</div> <div>PACIFIC AGRI-FOOD RESEARCH CENTRE AND SURROUNDING AREA BUILDINGS</div> | Project No.: | 123710520 | <div>Dwg. No.:</div> <div>P-2</div> | <div></div> <div>Stantec</div> |
| | Scale: | N.T.S. | | |
| | Date: | 13/01/05 | | |
| | Dwn. By: | CD CS | | |
| | App'd By: | SB | | |
| Client: | AGRICULTURE AND AGRI-FOOD CANADA | | | |



Appendix B

Freehold Building Cards

Buildings 40 & 41

1. YEAR BUILT

1901

CARD REVISED

CANADA DEPARTMENT OF AGRICULTURE
FREEHOLD BUILDING CARD

LAND CARD REFERENCE NO.

| BRANCH | LOCATION | ESTABLISHMENT | BUILDING LOCATION MAIN ESTAB. (V) X SATELLITE EST. (NAME) | BUILDING NAME | CODES | | BUILDING NO |
|----------|---------------|---------------------------|---|----------------------|-------|------|-------------|
| | | | | | CLASS | TYPE | |
| Research | Agassiz, B.C. | 1901 Experimental Farm | 2500 | Residence EF-1-13 | 10 | 1 | 40 |

2. DESCRIPTIONS

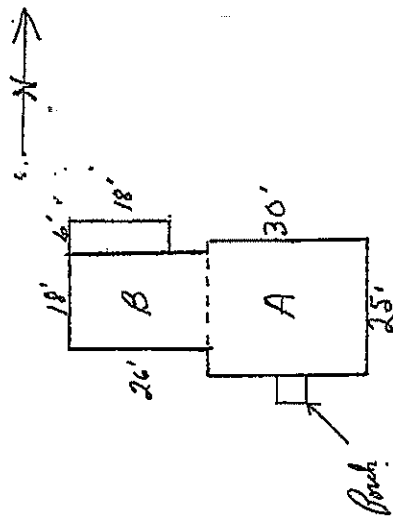
| BASIMENT AND NO. OF FLOORS | DIMENSIONS, INCLUDING WINGS | SQUARE FEET | HEIGHT | YEAR | REMARKS | \$ COST | \$ TOTAL |
|----------------------------|-------------------------------------|-------------|--|---|---|---------|----------|
| Basement | A(25 x 30) + B(18 x 26) | 1118 | A.B. to 1st 7' 1st to eave 20' | 1901 | CEDAR ROOF | 10000 | 10000 |
| First Floor | A(25 x 30) + B(18 x 26) + C(6 x 1E) | 1228 | 1st to peak 29' | 1984 | UPPER REMOVED | 16271 | 26271 |
| Second Floor | A(25 x 30) | 750 | B. Basement to 1st 7' 1st to eave 7' 1st to peak 15' | 1985 | FIRE CLASS INSULATION INSTALLED. VINYL SIDING NEW WINDOWS | | |
| | | <u>2418</u> | CU. FT. 29578 | CMHC ruled that my mileage of living space is 130 m ² - update insured for electricity on heat through 2 bedroom home. 86 06.18 see Brown owned housing | | | |

3. CONSTRUCTION - TYPE AND MATERIALS

| FOUNDATION | FRAMING | WALLS, EXTERIOR | WALLS, INTERIOR | FLOORS | ROOFS |
|-----------------|--|-----------------|-----------------|--|-----------------------|
| Poured Concrete | 2 x 4 Studs 2 x 6 Rafters 2 x 6 Joists | Shingles | Gypsum | Basement Concrete 1 x 4 Wooden Floors | Cottage Style - Cedar |

4. UTILITIES - TYPE

5. SKETCH - GROUND FLOOR EXTERIOR



SCALE 1 IN = 30 FT.

REMARKS

CANADA DEPARTMENT OF AGRICULTURE FREEHOLD BUILDING CARD

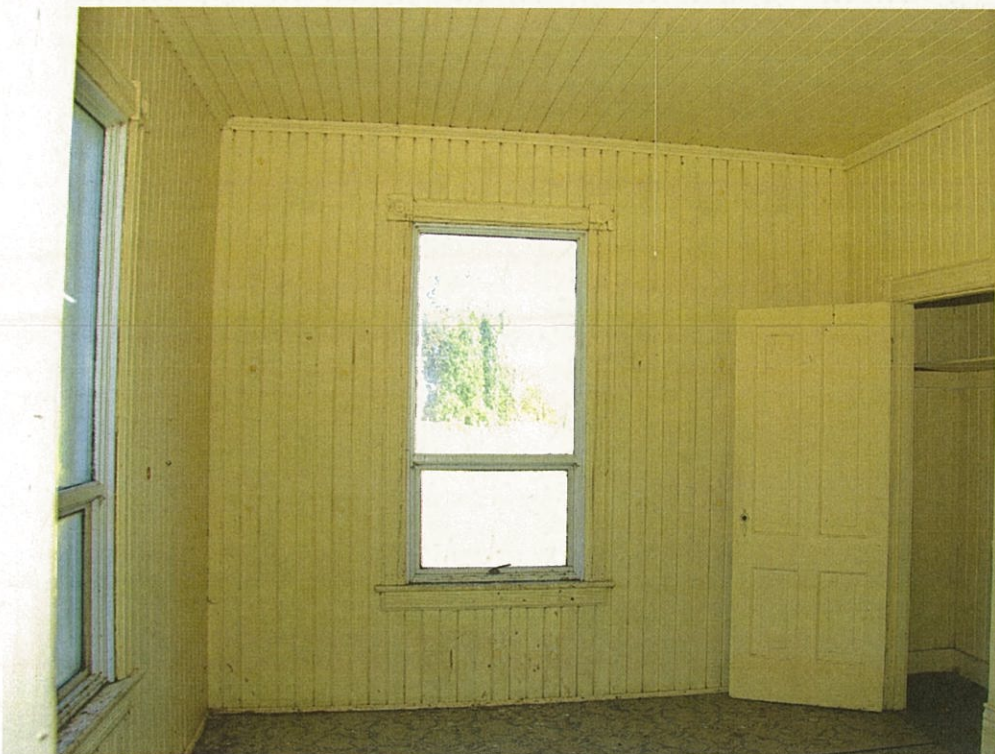
LAND CARD REFERENCE NO.

| | | | |
|--|---|--|---|
| 1. YEAR BUILT 1900 | | 2. CARD REVISED | |
| BRANCH Research | LOCATION Agnassiz, B.C. | ESTABLISHMENT 901 Experimental Farm | BUILDING LOCATION MAIN ESTAB. (V) X (#2 Farm) SATELLITE EST. (NAME) |
| 2500 | | Implement Shed | |
| CODES CLASS 6 TYPE 1 | | BUILDING TYPE 41 | |
| 2. DIMENSIONS, INCLUDING WINGS | | | |
| BASEMENT AND NO. OF FLOORS Ground Floor | 20' x 66' | SQUARE FEET 1320 | HEIGHT 1st to eave East 10' West 6' 1st to peak 15' |
| 3. CONSTRUCTION - TYPE AND MATERIALS | | TOTAL SQ. FT. 1320 | CU. FT. 13133 |
| FOUNDATION Cement Blocks | FRAMING 2 x 4 Studs 2 x 6 Rafters | WALLS, EXTERIOR Wooden Shingles WALLS, INTERIOR Plywood | FLOORS Poured Concrete |
| 4. UTILITIES - TYPE | | 5. SKETCH - GROUND FLOOR EXTERIOR | |
| PLUMBING NIL | HEATING AND CONDITIONING NIL | ELECTRICITY AND OTHER 220 Single Phase 30 Amp | |
| REMARKS | | <p>66' 20'</p> <p>SCALE 1 IN = 30 FT.</p> | |
| 6. COSTS | | 7. TOTAL | |
| YEAR 1900 | REMARKS CEDAR ROOF | \$ COST 1500 | \$ TOT. 1500 |

Appendix C

Photos of Existing Buildings

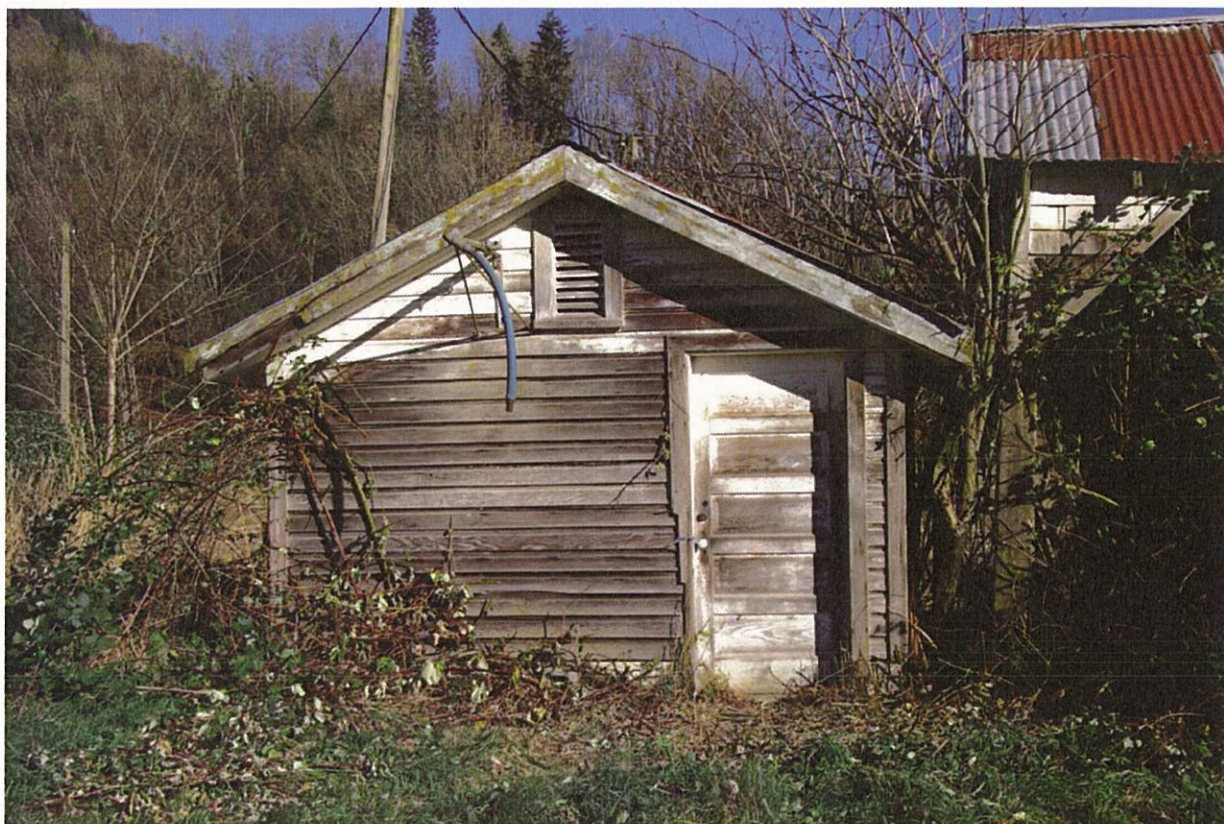












This building adjacent to Building 41 is not to be demolished. Protect this building and the associated utility connections from possible damage during the demolition of Building 41.