



ADDENDUM N° 2

Date: December 21, 2015

Project: Renovations Construction Services in Harrow

Bidders must make sure that their bids are based on the latest version of the tender documents published and take into consideration the following amendments and information, including any information provided in amendments or Q&As previously published for this project.

Bidders that do not comply with this requirement will be discarded.

SPECIFICATIONS

1.0 Section 01 11 01 – General Instructions Minor Works:

.1 Part One – General

.1 1.23 Scheduling

Add the following paragraph:

“.5 Construction work requiring access to Room S113A Executive Board Room must be carried out Monday to Friday between the hours of 17:00 to 22:00. At the completion of work each evening the room must be cleared of construction tools and material, furnishings dusted and carpet vacuum cleaned in preparation of Centre use the following day.”

2.0 Specification section 02 82 01 – Asbestos Abatement – Intermediate

.1 Add the above noted specification section. Precautions (attached).

DRAWINGS

(See attached)

3.0 A.0 ABBREVIATIONS

.1 Add the following to the abbreviations table:
“UVT – Urethane Vinyl Tile”

4.0 A.1 Room Finish Schedule

.1 Add room S113B – Meeting Room to the Room Finish Schedule
.2 Replace “SV” Sheet Vinyl with “UVT” Urethane Vinyl Tile, all rooms.

5.0 A.1 Construction Note – 1, A.0/A.1 Floor Plan:

.1 Add the following construction note to Room S113a Executive Board Room:

“CEILING TILE AND GRID COMPONENTS IN ROOM S113A ARE TO BE REMOVED, STORED AND REASSEMBLED FOLLOWING CONSTRUCTION. ANY TILES OR GRID COMPONENTS THAT ARE NOT USABLE FOLLOWING CONSTRUCTION ARE TO BE REPLACED WITH NEW PRODUCT.”

All other conditions and requirements remain unchanged

Part 1 General

1.1 SUMMARY

- .1 Comply with requirements of this Section when performing following Work:
 - .1 Removing friable asbestos and/or non-friable asbestos (vinyl asbestos floor tile and flooring adhesive) containing materials by breaking, cutting, drilling, abrading, grounding, sanding, vibrating or grinding in rooms R150, R150A, R150B and S113B if:
 - .1 The material is not wetted to control the spread of dust or fibres, and
 - .2 The work is done only by means of non-powered hand-held tools.
 - .2 Removing friable asbestos and/or non-friable asbestos (vinyl asbestos floor tile and flooring adhesive) containing materials by breaking, cutting, drilling, abrading, grounding, sanding, vibrating, or grinding in rooms R150, R150A, R150B and S113B if the work is done by means of power tools that are attached to dust-collecting devices equipped with HEPA filters.

1.2 REFERENCES

- .1 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.205-[94], Sealer for Application of Asbestos Fibre Releasing Materials.
- .2 Department of Justice Canada (Jus)
 - .1 Canadian Environmental Protection Act, 1999 (CEPA).
- .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .4 Transport Canada (TC)
 - .1 Transportation of Dangerous Goods Act, 1992 (TDGA).
- .5 Underwriters' Laboratories of Canada (ULC)

1.3 DEFINITIONS

- .1 Amended Water: water with non-ionic surfactant wetting agent added to reduce water tension to allow wetting of fibres.
- .2 Asbestos Containing Materials (ACMs): materials that contain provincial regulated amount per cent or more asbestos by dry weight and are identified under Existing Conditions including fallen materials and settled dust.
- .3 Asbestos Work Area: area where work takes place which will, or may disturb ACMs.
- .4 Authorized Visitors: Engineer, or designated representatives, and representatives of regulatory agencies.
- .5 Competent worker: in relation to specific work, means a worker who:
 - .1 Is qualified because of knowledge, training and experience to perform the work.

- .2 Is familiar with the provincial and federal laws and with the provisions of the regulations that apply to the work.
- .3 Has knowledge of all potential or actual danger to health or safety in the work.
- .6 Friable Materials: material that when dry can be crumbled, pulverized or powdered by hand pressure and includes such material that is crumbled, pulverized or powdered.
- .7 Glove Bag: prefabricated glove bag as follows:
 - .1 Minimum thickness 0.25 mm (10 mil) polyvinyl-chloride bag.
 - .2 Integral 0.25 mm (10 mil) thick polyvinyl-chloride gloves and elastic ports.
 - .3 Equipped with reversible double pull double throw zipper on top and at approximately mid-section of the bag.
 - .4 Straps for sealing ends around pipe.
- .8 HEPA vacuum: High Efficiency Particulate Air filtered vacuum equipment with filter system capable of collecting and retaining fibres greater than 0.3 microns in any dimension at 99.97% efficiency.
- .9 Non-Friable Material: material that when dry cannot be crumbled, pulverized or powdered by hand pressure.
- .10 Occupied Area: any area of building or work site that is outside Asbestos Work Area.
- .11 Polyethylene: polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects, over cuts and tears, and elsewhere as required to provide protection and isolation.
- .12 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must have appropriate capacity for scope of work.

1.4 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submittals in accordance with Section 01 11 01 - Submittal Procedures].
- .2 Submit proof satisfactory to Departmental Representative that suitable arrangements have been made to dispose of asbestos containing waste in accordance with requirements of authority having jurisdiction.
- .3 Submit Provincial/Territorial and/or local requirements for Notice of Project Form.
- .4 Submit proof of Contractor's Asbestos Liability Insurance.
- .5 Submit to Departmental Representative necessary permits for transportation and disposal of asbestos containing waste and proof that asbestos containing waste has been received and properly disposed.
- .6 Submit proof satisfactory to Departmental Representative that all asbestos workers have received appropriate training and education by a competent person in the hazards of asbestos exposure, good personal hygiene, entry and exit from Asbestos Work Area, aspects of work procedures and protective measures while working in Asbestos Work Areas, and the use, cleaning and disposal of respirators and protective clothing.
- .7 Submit proof that supervisory personnel have attended asbestos abatement course, of not less than two days duration, approved by Departmental Representative. Minimum of one supervisor for every ten workers.

- .8 Submit Worker's Compensation Board status and transcription of insurance.
- .9 Submit documentation including test results, fire and flammability data, and Material Safety Data Sheets (MSDS) for chemicals or materials including:
 - .1 Encapsulants;
 - .2 Amended water;
 - .3 Slow drying sealer.
- .10 Submit proof satisfactory to Departmental Representative that employees have respirator fitting and testing. Workers must be fit tested (irritant smoke test) with respirator that is personally issued.

1.5 QUALITY ASSURANCE

- .1 Regulatory Requirements: comply with Federal, Provincial/Territorial and local requirements pertaining to asbestos, provided that in case of conflict among these requirements or with these specifications more stringent requirement applies. Comply with regulations in effect at the time work is performed.
- .2 Health and Safety:
 - .1 Do construction occupational health and safety in accordance with Section 01 35 29 - Health and Safety Requirements.
 - .2 Safety Requirements: worker and visitor protection.
 - .1 Protective equipment and clothing to be worn by workers while in Asbestos Work Area include:
 - .1 Air purifying half-mask respirator with N-100, R-100 or P-100 particulate filter, personally issued to worker and marked as to efficiency and purpose, suitable for protection against asbestos and acceptable to Provincial Authority having jurisdiction. The respirator to be fitted so that there is an effective seal between the respirator and the worker's face, unless the respirator is equipped with a hood or helmet. The respirator to be cleaned, disinfected and inspected after use on each shift, or more often if necessary, when issued for the exclusive use of one worker, or after each use when used by more than one worker. The respirator to have damaged or deteriorated parts replaced prior to being used by a worker; and, when not in use, to be stored in a convenient, clean and sanitary location. The employer to establish written procedures regarding the selection, use and care of respirators, and a copy of the procedures to be provided to and reviewed with each worker who is required to wear a respirator. A worker not to be assigned to an operation requiring the use of a respirator unless he or she is physically able to perform the operation while using the respirator.

- .2 Disposable type protective clothing that does not readily retain or permit penetration of asbestos fibres. Protective clothing to be provided by the employer and worn by every worker who enters the work area, and the protective clothing to consist of a head covering and full body covering that fits snugly at the ankles, wrists and neck, in order to prevent asbestos fibres from reaching the garments and skin under the protective clothing. It includes suitable footwear, and it to be repaired or replaced if torn.
- .3 Eating, drinking, chewing, and smoking are not permitted in Asbestos Work Area.
- .4 Before leaving Asbestos Work Area, the worker can decontaminate his or her protective clothing by using a vacuum equipped with a HEPA filter, or by damp wiping, before removing the protective clothing, or, if the protective clothing will not be reused, place it in a container for dust and waste. The container to be dust tight, suitable for asbestos waste, impervious to asbestos, identified as asbestos waste, cleaned with a damp cloth or a vacuum equipped with a HEPA filter immediately before removal from the work area, and removed from the work area frequently and at regular intervals.
- .5 Ensure workers wash hands and face when leaving Asbestos Work Area. Facilities for washing are located [as indicated on drawings].
- .6 Ensure that no person required to enter an Asbestos Work Area has facial hair that affects seal between respirator and face.
- .7 Visitor Protection:
 - .1 Provide protective clothing and approved respirators to Authorized Visitors to work areas.
 - .2 Instruct Authorized Visitors in the use of protective clothing, respirators and procedures.
 - .3 Instruct Authorized Visitors in proper procedures to be followed in entering into and exiting from Asbestos Work Area.

1.6 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for in accordance with Section 01 11 01 - Construction/Demolition Waste.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Place materials defined as hazardous or toxic in designated containers.
- .4 Handle and dispose of hazardous materials in accordance with the CEPA, TDGA, Regional and Municipal regulations.
- .5 Fold up metal banding, flatten and place in designated area for recycling.
- .6 Disposal of asbestos waste generated by removal activities must comply with Federal, Provincial/Territorial and Municipal regulations. Dispose of asbestos waste in sealed double thickness 6 mils bags or leak proof drums. Label containers with appropriate warning labels.
- .7 Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.

1.7 EXISTING CONDITIONS

- .1 Reports and information pertaining to ACMS to be handled, removed, or otherwise disturbed and disposed of during this Project are available for inspection.
- .2 Notify Departmental Representative of friable material discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material until instructed by Departmental Representative.

1.8 SCHEDULING

- .1 Hours of Work: perform work involving asbestos abatement outside of]normal working hours. Include in Contract Sum additional costs due to this requirement.

1.9 PERSONNEL TRAINING

- .1 Before beginning Work, provide Departmental Representative satisfactory proof that every worker has had instruction and training in hazards of asbestos exposure, in personal hygiene and work practices, in use of glove bag procedures, and in use, cleaning, and disposal of respirators and protective clothing.
- .2 Instruction and training related to respirators includes, at minimum:
 - .1 Fitting of equipment.
 - .2 Inspection and maintenance of equipment.
 - .3 Disinfecting of equipment.
 - .4 Limitations of equipment.
- .3 Instruction and training must be provided by competent, qualified person.

Part 2 Products

2.1 MATERIALS

- .1 Drop and Enclosure Sheets:
 - .1 Polyethylene: 0.15 mm thick.
 - .2 FR polyethylene: 0.15 mm thick woven fibre reinforced fabric bonded both sides with polyethylene.
- .2 Wetting Agent: 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with water in concentration to provide thorough wetting of asbestos containing material.
- .3 Waste Containers: contain waste in two separate containers.
 - .1 Inner container: 0.15 mm thick sealable polyethylene bag [or where glove bag method is used, glove bag itself].
 - .2 Outer container: sealable metal or fibre type where there are sharp objects included in waste material; otherwise outer container may be sealable metal or fibre type or second 0.15 mm thick sealable polyethylene bag.
 - .3 Labelling requirements: affix preprinted cautionary asbestos warning, in both official languages, that is visible when ready for removal to disposal site.
- .4 Glove bag:

- .1 Acceptable materials: safe-T-Strip products in configuration suitable for Work, or Alternative material approved by addendum during tendering period in accordance with Instructions to Tenderers.
- .2 The glove bag to be equipped with:
 - .1 Sleeves and gloves that are permanently sealed to the body of the bag to allow the worker to access and deal with the insulation and maintain a sealed enclosure throughout the work period.
 - .2 Valves or openings to allow insertion of a vacuum hose and the nozzle of a water sprayer while maintaining the seal to the pipe, duct or similar structure.
 - .3 A tool pouch with a drain.
 - .4 A seamless bottom and a means of sealing off the lower portion of the bag.
 - .5 A high strength double throw zipper and removable straps, if the bag is to be moved during the removal operation.
- .5 Tape: tape suitable for sealing polyethylene to surfaces under both dry and wet conditions using amended water.
- .6 Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual asbestos fibres.
 - .1 Sealer: flame spread and smoke developed rating less than 50 [and be compatible with new fireproofing].

Part 3 Execution

3.1 SUPERVISION

- .1 Minimum of one Supervisor for every ten workers is required.
- .2 Approved Supervisor must remain within Asbestos Work Area during disturbance, removal, or other handling of asbestos-containing materials.

3.2 PROCEDURES

- .1 Do construction occupational health and safety in accordance with Section 01 35 29 - Health and Safety Requirements.
- .2 Before beginning Work, at each access to Asbestos Work Area, install warning signs in both official languages in upper case 'Helvetica Medium' letters reading as follows, where number in parentheses indicates font size to be used: 'CAUTION ASBESTOS HAZARD AREA (25 mm) / NO UNAUTHORIZED ENTRY (19 mm) / WEAR ASSIGNED PROTECTIVE EQUIPMENT (19 mm) / BREATHING ASBESTOS DUST MAY CAUSE SERIOUS BODILY HARM (7 mm)'.
 - .1 Use HEPA vacuum or damp cloths where damp cleaning does not create hazard and is otherwise appropriate.
 - .2 Do not use compressed air to clean up or remove dust from any surface.
- .3 Before beginning Work remove visible dust from surfaces in work area where dust is likely to be disturbed during course of work.
 - .1 Use HEPA vacuum or damp cloths where damp cleaning does not create hazard and is otherwise appropriate.
 - .2 Do not use compressed air to clean up or remove dust from any surface.

- .4 Prevent spread of dust from Asbestos Work Area using measures appropriate to work to be done.
 - .1 Use FR polyethylene drop sheets over flooring such as carpeting that absorbs dust and over flooring in work areas where dust or contamination cannot otherwise be safely contained.
- .5 Work is subject to visual inspection and air monitoring. Contamination of surrounding areas indicated by visual inspection or air monitoring will require complete enclosure and clean-up of affected areas.
- .6 Cleanup:
 - .1 Frequently during Work and immediately after completion of work, clean up dust and asbestos containing waste using HEPA vacuum or by damp mopping.
 - .2 Place dust and asbestos containing waste in sealed dust tight waste bags. Treat drop sheets and disposable protective clothing as asbestos waste and wet and fold to contain dust and then place in waste bags.
 - .3 Immediately before their removal from Asbestos Work Area and disposal, clean each filled waste bag using damp cloths or HEPA vacuum and place in second clean waste bag.
 - .4 Seal and remove double bagged waste from site. Dispose of in accordance with requirements of Provincial/Territorial and Federal authority having jurisdiction. Supervise dumping and ensure that dump operator is fully aware of hazardous nature of material to be dumped and that guidelines and regulations for asbestos disposal are followed.
 - .5 Perform final thorough clean-up of Asbestos Work Areas and adjacent areas affected by Work using HEPA vacuum.

3.3 AIR MONITORING

- .1 From beginning of Work until completion of cleaning operations, [Departmental Representative] [DCC Representative] [Consultant] to take air samples on daily basis outside of Asbestos Work Area enclosure[s] in accordance with [Provincial/Territorial Occupational Health and Safety Regulations] [PWGSC requirements].
 - .1 Contractor will be responsible for monitoring inside enclosure in accordance with applicable Provincial/Territorial Occupational Health and Safety Regulations.
- .2 If air monitoring shows that areas outside Asbestos Work Area enclosure[s] are contaminated, enclose, maintain and clean these areas in same manner as that applicable to Asbestos Work Area.
- .3 Ensure that respiratory safety factors are not exceeded.

END OF SECTION

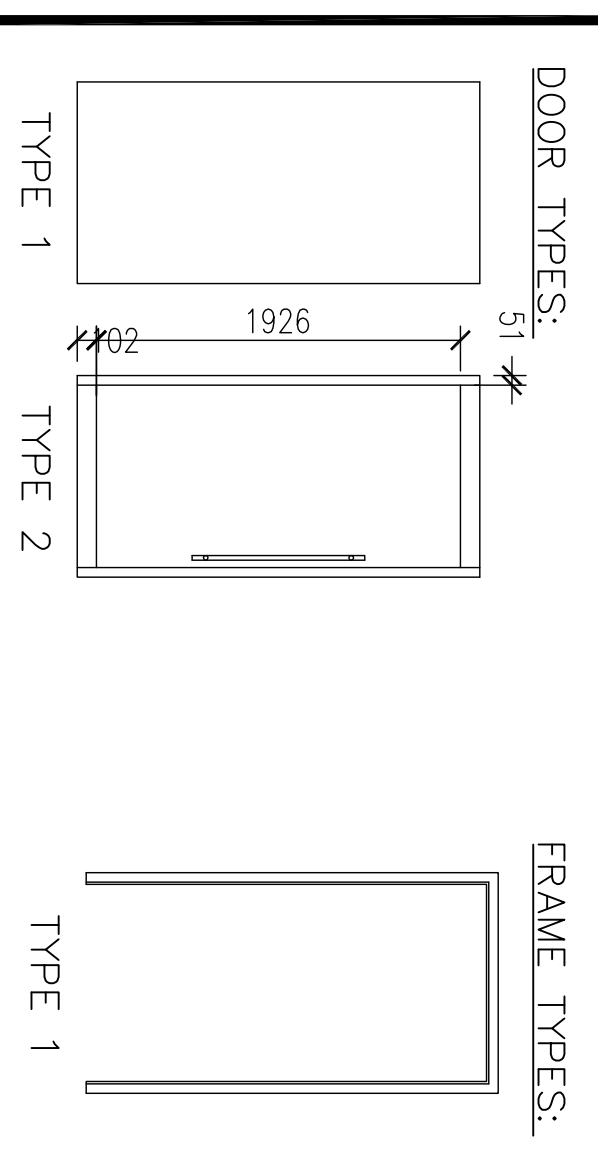
ROOM NO.	ROOM NAME	FLOORS		WALLS		CEILING		REMARKS		
		PERIM.	FLOOR	BASE	SOUTH	EAST	NORTH		WEST	MATERIAL
S113B	MEETING ROOM	53.6	31.8 M EX CONC GYP	GYP	PT	PT	PT	EX GYP/ACT	2700	
R150	HALL	15.0	21.9 M EX CONC GYP/BK	EX BK/GYP/EX BK	PT	PT	PT	EX GYP/ACT	2700	CEILING NOT AT BULKHEAD ABOVE DOOR DO6 TO REMAIN UNCHANGED.
R150A	COMPUTER/TRAINING ROOM	30.0	22.8 M EX CONC GYP/BK	GYP	PT	PT	PT	ACT	2700	
R150B	MEETING ROOM	33.1	23.0 M EX CONC GYP/BK	GYP	PT	PT	PT	ACT	2700	

- MATERIAL & FINISH SCHEDULE NOTES:**
- THE MATERIAL AND FINISH SCHEDULE IS INTENDED TO ASSIST THE CONTRACTOR WITH TENDERING AND THE WORK. INFORMATION PERTAINING TO SUBSTRATE MATERIALS AND FINISHES ELSEWHERE IN THE CONTRACT DOCUMENTS SHALL BE INCLUDED IN THE WORK.
 - FINISH MATERIAL FRAME SPREAD RATINGS SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.
 - ALL WORK TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL AND ONTARIO BUILDING CODES.
 - UNLESS SPECIFICALLY STATED TO BE EXISTING, FINISHED SHALL BE NEW.
 - IN LOCATIONS WHERE MATERIAL SUBSTRATES ARE SHOWN AS EXISTING, PATCHING OF EXISTING MATERIALS IS TO BE WITH NEW MATERIALS.
 - REFER TO SPECIFICATION SECTIONS FOR FLOOR, BASE, WALL AND CEILING FINISHES MATERIALS.
 - WHERE NEW FINISHES ARE APPLIED TO EXISTING SUBSTRATES, THE FINISHING SECTION RESPONSIBLE FOR THE NEW FINISH SHALL PROVIDE ALL PREPARATION INCLUDING, BUT NOT LIMITED TO, ALL GRINDING, PATCHING AND OPENING TO MAKE SURFACE SUITABLY LEVEL AND TRUE TO ACCEPT THE NEW FINISH. THE FINISHING SECTION SHALL ALSO STRIP AWAY SYSTEM FINISH BY MEANS OF POWER WASHING OR OTHER APPROVED MEANS TO RENDER THE SURFACE CAPABLE OF COMPLETE AND PERMANENT FINISHING.
 - COLORS, PATTERNS, ACCENTS FOR WALLS AND FLOOR FINISHES SHALL BE PROVIDED AT LATER DATE BY THE CONSULTANT. REFER TO SPECIFICATIONS FOR PRODUCT RANGES.
 - SEE FLOOR PLANS FOR DETAIL LOCATIONS OF FLOOR FINISHES.

DOOR AND FRAME SCHEDULE

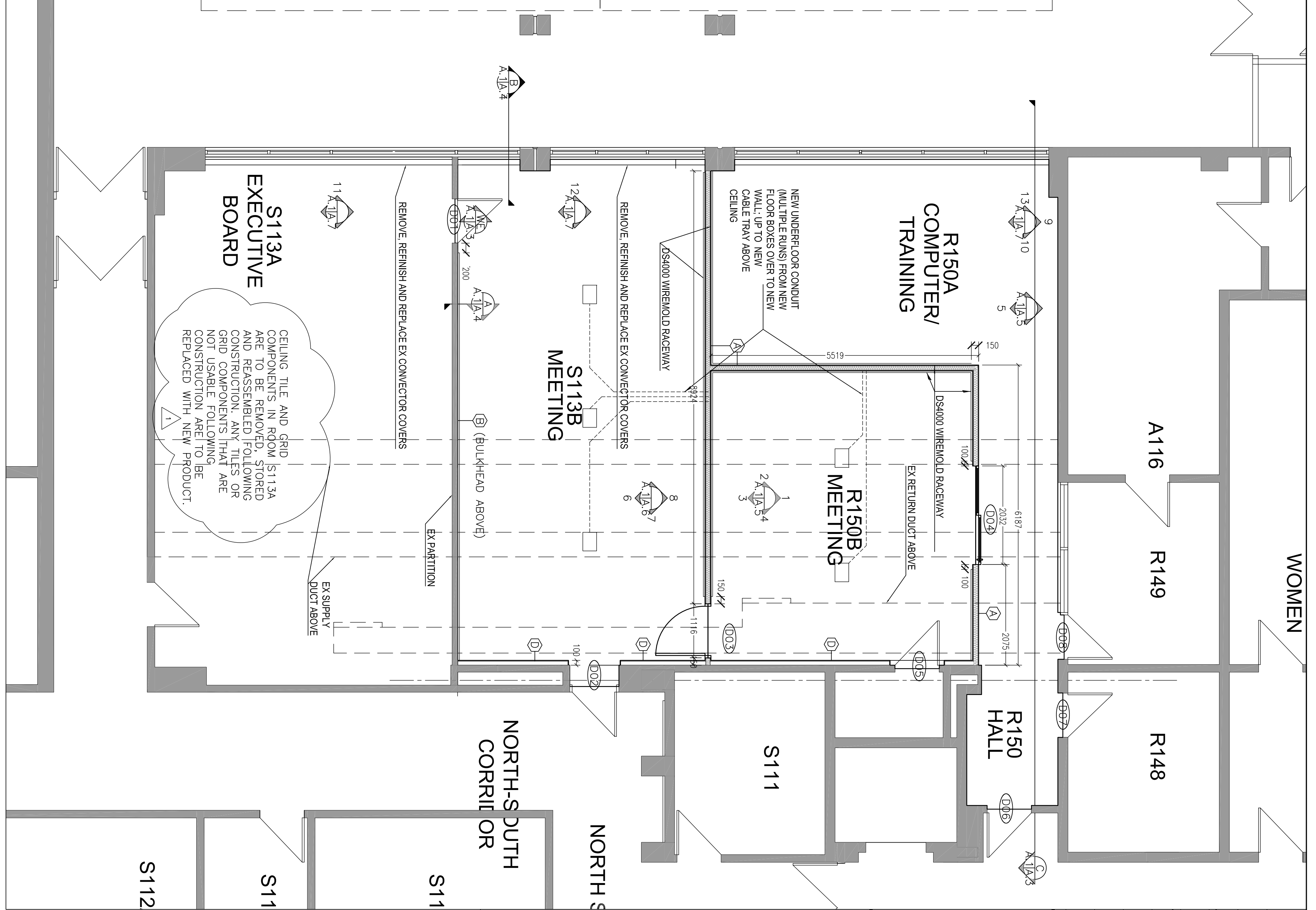
DOOR NO.	QUAN	TYPE	MATERIAL	WIDTH	HEIGHT	THICK	FINISH	DOOR		FRAME		FRM	REMARKS
								GLAZING	TYPE	TYPE	TYPE		
DO1	1	1	EX WD	915	2134		PT	PT	1	EX WD	PT		EX DOOR AND FRAME TO BE REFINISHED AND PAINTED
DO2	1	1	EX HM	915	2134		PT	1		EX HM	PT		EX DOOR AND FRAME TO BE REFINISHED AND PAINTED
DO3	1	1	WD	1016	2134	45	CL F	1		HM	PT		
DO4	1	2	AL	1016	2286	45	PREF			PREF			NEW PREF AL DOOR AND FRAME SYSTEM
DO5	1	1	EX HM	915	2134		PT	1		EX HM	PT		EX DOOR AND FRAME TO BE REFINISHED AND PAINTED
DO6	1	1	EX HM	915	2134		PT	1		EX HM	PT		EX DOOR AND FRAME TO BE REFINISHED AND PAINTED
DO7	1	1	EX HM	915	2134		PT	1		EX HM	PT		EX DOOR AND FRAME TO BE REFINISHED AND PAINTED
DO8	1	1	EX HM	915	2134		PT	EX	1	EX HM	PT		EX DOOR AND FRAME TO BE REFINISHED AND PAINTED

- DOOR & FRAME SCHEDULE NOTES:**
- THE DOOR AND FRAME SCHEDULE IS INTENDED TO ASSIST THE CONTRACTOR WITH TENDERING AND THE WORK. INFORMATION PERTAINING TO DOORS AND FRAMES ELSEWHERE IN THE CONTRACT DOCUMENTS SHALL BE INCLUDED IN THE WORK.
 - ALL DOORS AND FRAMES SHALL BE PREPARED FOR SPECIFIED HARDWARE.
 - THE WORK OF THESE SECTIONS SHALL CONFORM TO THE NATIONAL BUILDING CODE AND ONTARIO BUILDING CODE.
 - MANUFACTURER'S DOOR AND FRAME SCHEDULE SHALL HAVE NOMENCLATURE CORRESPONDING TO CONSULTANT'S SCHEDULE. SUBMIT SCHEDULE FOR REVIEW BY ARCHITECT.



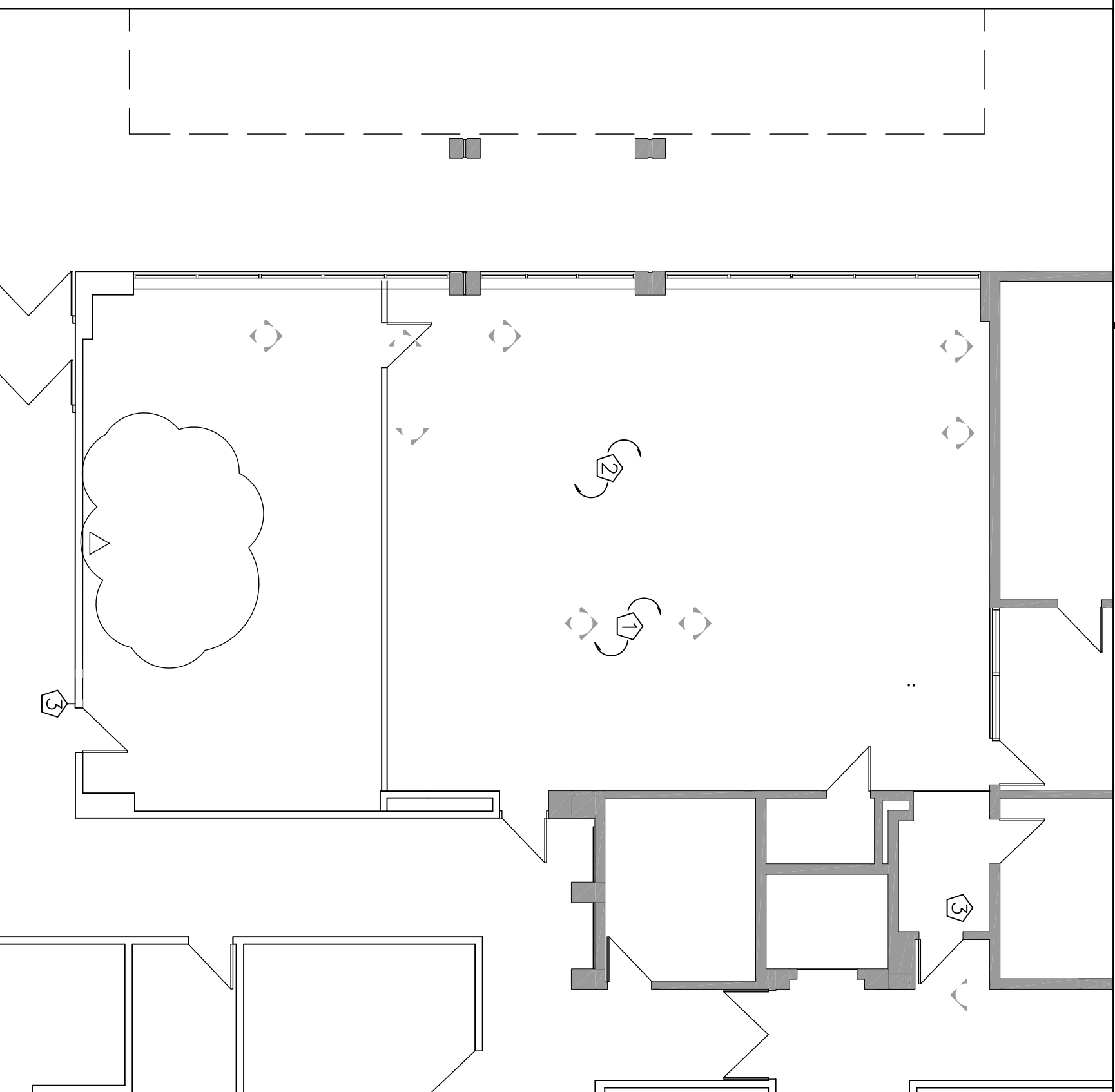
DEMOLITION NOTES

- REMOVE EX CEILING TILES, GRID, LIGHT FIXTURES, DIFFUSERS AND OTHER ATTACHED DEVICES. NOTE ELECTRICAL AND MECHANICAL DRAWINGS FOR DEVICES TO BE REMOVED AND SAVED FOR REINSTALLATION.
- REMOVE EX VAT TILE AND ADHESIVE. GRIND FLOOR SMOOTH TO RECEIVE LATEX UNDERLAYMENT AND NEW TILE.
- DO NOT REMOVE THE EX BULKHEAD AT DOOR 06.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.



1 FLOOR PLAN
SCALE: 1 mm = 50 mm

2 DEMOLITION PLAN
SCALE: 1 mm = 100 mm



MEETING ROOM ALTERATIONS

project title: **HARROW AGRICULTURE AND AGRI-FOOD CANADA**
2585 COUNTY ROAD 20
ONTARIO

drawing title: **PLANS, SCHEDULE & ALTERATIONS**

designed by: DA
drawn by: DA
checked by: DA
approved by: DA

project date: 2015-11-23
project no.: 15-06
drawing no.: A.1

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2015-11-23

DETAIL NO.:
A No. du détail
B drawing no. - when detail required
C drawing no. - when detail design
drawing no. - when detail
detail no. - ou détail