Écoles élémentaire catholique Horizon-Jeunessse
Phase II
349 Olmstead Street, Ottawa, Ontario
Conseil des écoles catholiques du Centre-Est
EJC Project No. 1925

May 28, 2020

# ADDENDUM FOUR

**THE FOLLOWING CHANGES TO THE TENDER DOCUMENTS ARE EFFECTIVE IMMEDIATELY. THIS ADDENDUM SHALL FORM PART OF THE CONTRACT DOCUMENTS.**

**I N D E X**

**WRITTEN PORTION:**



**ATTACHMENTS:**

1. **Specification Section 02 41 16 – Structure Demolition, 10 pages**
2. **exp Addendum No. 3, 5 pages**
3. **exp Addendum No. 4, 2 pages**
4. **Electrical Addendum No. 1, 1 page**
5. **Mechanical Addendum No. 1, 1 page**

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# ADDENDUM FOUR

## I – ARCHITECTURAL SPECIFICATIONS:

**1 SECTION 02 41 16 REV.1 – STRUCTURE DEMOLITION**

**.1 REPLACE SPECIFICATION SECTION 02 41 16 REV.1 WITH THE ATTACHED – 10 Pages**

**2 SECTION 09 30 13 – CERAMIC TILING**

**.1 REVISE SECTION 2.3 FLOOR TILES MATERIAL TO READ:**

.3 **Acceptable Material**:

**FLOOR TILES**

.1 **CT** Tiles distributed by CéraGrès Tile Group Inc. Tel. 613- 295-4234
Porcelain Tile
Manufacturer Casalgrande
Collection Technic
Format 15x15cm (6x6")
Colour Colorado

## II – DRAWINGS – ARCHITECTURAL:

**3 DRAWING 030 – EXISTING BASEMENT & FOUNDATION PLAN PHASE II DEMOLITION**
**AND**
**4 DRAWING 031 – EXISTING BASEMENT PHASE II CONSTRUCTION AND DEMOLITION PLAN DETAILS**
**AND**
**5 DRAWING 057 – DEMOLITION SECTIONS**

**.1 REVISE DRAWING NOTE #D15 TO READ:**
**REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REQUIRED MECHANICAL AND ELECTRICAL REMOVALS WITHIN EXISTING BUILDING TO REMAIN**

**.2 REVISE DRAWING NOTE #D32 TO READ:**
**EXISTING SWIMMING POOL C/W ASSOCIATED EQUIPMENT TO BE REMOVED**

**.3 REVISE DRAWING NOTE #D34 TO READ:**
**EXISTING ONE STOREY STRUCTURE DEMOLITION: REMOVE EXISTING STRUCTURE, BUT NOT LIMITED TO, EXTERIOR WALL ASSEMBLY, ROOF ASSEMBLY, WINDOWS, DOORS, HARDWARE, CEILINGS, PARTITIONS, FINISHES, ETC. SAWCUT AND REMOVE EXISTING FLOOR SLAB ON GRADE, FOUNDATION WALLS, AND FOOTING, ELEVATED STRUCTURAL FLOOR SLABS ABOVE TUNNELS AND CRAWL SPACES. REPAIR AND MAKE GOOD EXISTING WALL SURFACES, SLAB ON GRADE, FOUNDATION, DAMAGED MEMBRANES, ROOFING ASSEMBLIES, ETC TO REMAIN AND AFFECTED BY DEMOLITION/NEW WORK. REFER TO**

# ADDENDUM FOUR

**STRUCTURAL, AND MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION WITH RESPECT TO DISCONNECTION AND MAKING SAFE INTERCONNECTING INSTALLATIONS.**

**6 DRAWING 240 – PLAN DETAILS**

**.1 DETAIL 5/A240 REVISE DRAWING NOTE TO READ:**

**DEFLECTION JOINT C/W/ COLLAPSIBLE 20 GAUGE GALVANIZED SHEET METAL COVER. LAP AND SEAL AIR/VAPOUR BARRIER OVER METAL JOINT COVER AND ONTO CONCRETE BLOCK, LOOP TO ALLOW FOR MOVEMENT.**

## III – ABATEMENT – DESIGNATED SUBSTANCE SURVEY – EXP ADDENDUM NO. 3:

**.1 REFER TO ATTACHED ABATEMENT – DESIGNATED SUBSTANCE SURVEY – EXP ADDENDUM NO. 3, DATED MAY 25, 2020. 5 PAGES.**

## IV – WASTE AUDIT CLARIFICATION AND TYPE 3 ENCLOSURES – EXP ADDENDUM NO. 4:

**.1 REFER TO ATTACHED WASTE AUDIT CLARIFICATION AND TYPE 3 ENCLOSURES – EXP ADDENDUM NO. 4, DATED MAY 28, 2020. 2 PAGES.**

**IV……..EXP ADDENDUM NO.4 - WASTE AUDIT CLARIFICATION AND TYPE 3 ENCLOSURES, 2 pages**

## V – ELECTRICAL ADDENDUM NO. E1:

**.1 REFER TO ATTACHED ELECTRICAL ADDENDUM NO. E1, DATED MAY 26 2020, 1 PAGE**

## VI – MECHANICAL ADDENDUM NO. M1:

**.1 REFER TO ATTACHED MECHANICAL ADDENDUM NO. M1, DATED MAY 27 2020, 1 PAGE**

## VII – QUESTIONS AND ANSWERS:

**1 Question:** *Can you please show location of panels, generator and splitters on each floor as to be able to price demolition of equipment conduits and wire?*

# ADDENDUM FOUR

**Answer:** *Generator location is shown on electrical drawing E3. Panels c/w feeder route and where they are fed from with room numbers shown above panel are indicated on drawing E2.*

**2** **Question:** *DRWG E-2 SAYS "MOUNT DISTRUBTION BOARD DB2 BUT NOTE SAYS RELOCATE EXISTING PANEL BP2?*

**Answer:** *Read BP2 as DB2*

**3** **Question:** *DRWG E-3 NOTE#1 - SAYS RELOCATE EXISTING PANEL BP2 BUT THE DRWG IDENTIFIES AS DB2?*

**Answer:** *Read Panel BP2 as Panel DB2as marked up on the panel.*

**4** **Question:** *HOW DOES THE FEED COME IN TO DB2? ANY WALLS, FLOORS TO DRILL HOLES FROM?*

**Answer:** *Existing feeders are coming through wall and floor. No new coring to relocated feeder for DB2*

**5** **Question:** *HOW DOES THE FEED COME IN TO DB2? WHAT IS THE INCOMING FEED? PARRALEL FEEDERS? WHAT ARE THEY? TECK / CONDUIT?UNDERGROUND?*

**Answer:** *Existing feeder are parallel in conduit. Conduit installed on wall/ ceiling slab.*

**6** **Question:** *EXISTING MCC-3 FEED. HOW DOES THE FEED COME IN TO DB2?*

**Answer:** *Existing feeder is in conduit.*

**7** **Question:** *BP-24 FEED. HOW DOES THE FEED COME FROM DB2*

**Answer:** *Existing feeder is in conduit.*

**8** **Question:** *ELECTRICAL DEMO'S ALL ELECTRICAL OR THEY MAKE SAFE AND DEMO IS BY OTHERS? SPEC 26-05-00 PG 3 OF 15 STATES - NOTE 1.8 AND E-1 GENERAL NOTES: DEMOLITION:*

*a] DISCONNECT & MAKE SAFE ALL TO BE DEMOLISHED BY OTHERS*
*b] PRINT E-2 GENERAL NOTES STATES: DISCONNECT & REMOVE ALL DISTRIBUTION & BRANCH PANELS C/W FEEDERS & BRANCH WIRING.*
*c] PRINT E-3 GENERAL NOTES #3 STATES: DISCONNECT & REMOVE ALL DISTRIBUTION & BRANCH PANELS C/W FEEDERS & BRANCH WIRING.*

# ADDENDUM FOUR

**Answer:** *Refer to electrical addendum 1, Electrical contractor to disconnect and remove all electrical distribution, b=ranch circuit , lighting etc.*

**9** **Question:** *ANY OVER-TIME?*
*a] PRINT E-2 GENERAL NOTES STATES: ALL SHUTDOWNS ARE AFTER HOURS*
*b] DURING COVID; DAY WORK FOR THE SHUTDOWN?*

**Answer:** *No over time, allow after hors for shut down work.*

**10** **Question:** *Regarding the av membrane, for the siding scope should we only be including the tie-ins to our flashings?*

**Answer:** *In the exterior wall assembly ES1 applied spray-in foam insulation acts as a vapour barrier. Air/vapour barrier shall be installed as shown on architectural details and at tie-ins where continuity of air/vapour barrier required.*

**11** **Question:** *Detail 5/A240 notes deflection joint with metal cover and membrane seal, is this to be included or excluded from the siding scope?*

**Answer:** *Deflection joint shall be made of 20 gauge galvanized sheet metal. Who should include this product is up to General Contractor to decide.*

**12** **Question:** *Is the compressible filler between the block in A240 by others?*

**Answer:** *Compressible filler shown on drawings and specified in Section 07 92 00 – Joint Sealant and Waterstopping, Item 2.2.13 shall be included in contract.*

**13** **Question:** *After the removal of the building as indicated in Architectural drawings, what are the backfill and grading finish requirements (sod, landscaped, gravel, etc). Drawing A002 shows no hatch pattern in the area the building is removed, but general note #7 states to repair any landscape elements damaged by new work.*

**Answer:** *For the backfill requirements refer to issued with the tender documents exp's Additional Recommendation letter dated April 6, 2020. For the site area of the demolished school building, final site rough grading, topsoil, and sod will be provided with the next Phase III of the project, to be tendered separately. Drawing A002, drawing note 7 applies to any site area located outside of the construction fence shown on this drawing.*

**14** **Question:** *To what extent is the new spray on fireproofing noted in sections 1 & 2 /A220*

**Answer:** *There is no new spray-on fireproffing required on this job and existing steel roof and floor structure does not have any sprayed-on fireproofing installed.*

**END OF ADDENDUM FOUR**

## PART 1 GENERAL

### 1.1 SECTION INCLUDES

.1 Methods and procedures for demolition of structures, parts of structures, basements, utility tunnels and crawl spaces, indoor swimming pool structure, and foundation walls.

### 1.2 RELATED SECTIONS

.1 Section 01 33 00 – Submittal Procedures

.2 Section 01 35 43 – Environmental Procedures

.3 Section 01 35 30 – Health and Safety Requirements

.4 Abatement / Waste Audit Specifications as prepared by Exp Services Inc.

.5 Section 01 74 21 – Construction/Demolition Waste Management and Disposal

### 1.3 REFERENCES

.1 Canadian Standards Association (CSA International).
- .1 CSA S350 M1980 (R2003), Code of Practice for Safety in Demolition of Structures.

.2 Department of Justice Canada (Jus)
- .1 Canadian Environmental Protection Act (CEPA), 1999, c.33
  - .1 SOR/2003-2 On-Road Vehicle and Engine Emission Regulations.
  - .2 SOR/2006-268, Regulations Amending the On-Road Vehicle and Engine Emission Regulations.
  - .3 Transportation of Dangerous Goods Act (TDGA), 1992, c.34.
- .2 Canadian Environmental Assessment Act (CEAA), 1995, c.37.

.3 Provincial Legislation
- .1 Ontario Environmental Protection Act (OEPA).
  - .1 Ontario Regulation 102/94, as amended: Waste Audits and Waste Reduction Workplans.
  - .2 Ontario Regulation 103/94, as amended: Industrial, Commercial and Institutional Source Separation Programs.
  - .3 Ontario Regulation 104/94, as amended: Packaging Audits and Packaging Reduction Work Plans.
  - .4 Ontario Regulation 347, as amended: General – Waste Management Regulation.
  - .5 Ontario Regulation 153, as amended: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act.
- .2 Occupational Health and Safety Act (OHSA) R.S.O. 1990, c.O.1.
- .3 Professional Engineers Act (PEA), R.S.O. 1990, c.P.28.
  - .1 Ontario Regulation 260/08: Performance Standards, relating to construction and demolition of a building.
- .4 Dangerous Goods Transportation Act (DGTA), R.S.O. 1990, c.D.1.

.5 Ontario Provincial Standard Drawings (OPSD).
.1 OPSD 219.110 Light-Duty Silt Fence Barrier.

.4 U.S. Environmental Protection Agency (EPA)
.1 EPA 832/R-92-005, Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices.

.5 National Fire Code of Canada 2015.

## 1.4 DEFINITIONS

.1 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.

.2 Waste Management Co-ordinator (WMC): contractor representative responsible for supervising waste management activities as well as co-ordinating related, required submittal and reporting requirements.

.3 Waste Reduction Workplan (WRW): written report which addresses opportunities for reduction, reuse, or recycling of materials. WRW is based on information acquired from WA.

## 1.5 SUBMITTALS

.1 Submittals in accordance with Section 01 33 00 – Submittal Procedures.

.2 The WMC is responsible for fulfillment of reporting requirements.

.3 Prior to beginning of Work on site, submit detailed Waste Reduction Workplan and indicate:
.1 Descriptions of and anticipated quantities in percentages of materials to be salvaged reused, recycled and landfilled.
.2 Schedule of selective demolition.

.1 Schedules and Requirements
.1 Within ten (10) days of award of the Contract, the Contractor shall prepare and submit a construction schedule for its work within the framework of the project schedule. For each scheduled activity (“Task”) within the Contractor’s construction schedule, the Contractor shall identify at least the following:
.1 Task Name
.2 Task Duration
.3 Task Start Date
.4 Task End Date
.5 Task Value

.6 Interdependency with other Tasks (finish-to-start, start-to-finish, start-to-start, finishto-finish)
.7 Resource allocation (if requested by the Consultant)
.8 Detailed work breakdown by building areas and broken down tasks

.2 For each Task in the Contractor's construction schedule, the Contractor shall assign a value ("Task Value") corresponding to the total of the labour, material, equipment, overhead and profit associated with that task within the Contractor's fixed price contract amount. The sum of the Task Values for all of the tasks in the Contractor's construction schedule shall equal the total contract amount.

.3 The Architect will review the Contractor's construction schedule and, once approved, it will become part of the project schedule.

.4 The Contractor shall make whatever revisions to its construction schedule the Architect may reasonably require and provide supporting information as may be required to verify compliance with the project schedule.

.5 The Contractor's construction schedule will include, but shall not be limited to, the following Tasks:
.1 Overall Master Schedule showing all Phases combined.
.2 Submittal Schedule for Shop Drawings and Product Data including Allowance for Preparation, Review and Resubmission.
.3 Submittal Schedule for Samples.
.4 Submittal Schedule for Timeliness of Owner Furnished Products.
.5 Product Delivery Schedule.
.6 Fabrication and Delivery Schedule.
.7 Temporary Works
.8 Construction Activities
.9 Commissioning, Testing, Start-up and Demonstrations
.10 Change Orders
.11 Resource Allocation (if requested by the Architect

.3 Number and location of dumpsters.
.4 Anticipated frequency of tippage.
.5 Name and address of waste facilities.

.4 Submit copies of certified bills of lading, receipts from authorized disposal sites and recycling facilities for material removed from site on monthly basis.

.5 Where required by authorities having jurisdiction, submit for approval drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning.

.6 Submit drawings stamped and signed by qualified professional engineer registered or licensed in the Province of Ontario.

1 Submittals for items required to be engineered shall be prepared under the direct control and supervision of a qualified professional engineer registered in the Place of the Work, and having minimum of $1,000,000 professional liability insurance, who shall also apply his/her professional seal and signature to submittals prepared under their direct control and supervision.

.2 A certificate of insurance indicating that the professional engineer under whose direct control and supervision the submittal has been prepared has the required professional liability insurance is to be submitted with submittals required to be sealed by professional engineer (or as otherwise indicated as engineered).

.3 Design includes life safety, sizing of supports, anchors, framing, connections, spans, and as additionally required to meet or exceed requirements of applicable codes, standards, regulations, and authorities having jurisdiction.

.4 Engineered submittals shall include design calculations, complete with references to codes and standards used in such calculations, supporting the proposed design represented by the submittal. Prepare calculations in a clear and comprehensive manner so that they can be easily reviewed. Incomplete or haphazard calculations will be rejected.

.5 The professional engineer responsible for the preparation of engineered submittals shall undertake periodic field review, including review of associated mock-ups, at locations wherever the work as described by the engineered submittal is in progress, during fabrication and installation of such work, and shall submit a field review report after each visit. Field review reports shall be submitted to the Consultant, to authorities having jurisdiction as required, and in accordance with the Building Code.

.6 Field reviews shall be at intervals as necessary and appropriate to the progress of the work described by the submittal to allow the engineer to be familiar with the progress and quality of such work and to determine if the work is proceeding in general conformity with the Contract Documents, including reviewed shop drawings and design calculations.

.7 Upon completion of the parts of the Work covered by the engineered submittal, the professional engineer responsible for the preparation of the engineered submittal and for undertaking the periodic field reviews described above, shall prepare and submit to the Consultant and authorities having jurisdiction, as required, a letter of general conformity for those parts of the Work, certifying that they have been Provided in accordance with the requirements both of the Contract Documents and of the authorities having jurisdiction over the Place of the Work.

.8 Upon completion of the parts of the Work covered by the engineered submittal, the professional engineer responsible for the preparation of the engineered submittal and for undertaking the periodic field reviews described above, shall prepare and submit to the Consultant and authorities having jurisdiction, as required, a letter of general conformity for those parts of the Work, certifying that they have been Provided in accordance with the requirements both of the Contract Documents and of the authorities having

jurisdiction over the Place of the Work.

.1 Costs for such field reviews and field review reports and letters of general conformity are included in the Contract Price.

.9 Keep copies of reviewed submittals at the Place of the Work in a neat, orderly condition. Only submittals that have been reviewed by the Consultant and are marked with Consultant's review stamp, as applicable, are permitted at the Place of the Work.

.10 The Work shall conform to reviewed submittals subject to the requirements of this section. Remove and replace materials or assemblies not matching reviewed submittals at no increase in the Contract Time and at no additional cost to the Owner.

## 1.6 QUALITY ASSURANCE

.1 Regulatory Requirements: Ensure Work is performed in compliance with CEPA, CEAA, TDGA, and applicable Provincial and Municipal regulations.

.2 Meetings

.1 Prior to start of Work arrange for site visit with Owner to examine existing site conditions adjacent to demolition work.

## 1.7 WASTE MANAGEMENT AND DISPOSAL

.1 Separate waste materials for recycling.

## 1.8 ENVIRONMENTAL PROTECTION

.1 Ensure Work is done in accordance with Section 01 35 43 – Environmental Procedures.

.2 Ensure that demolition work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.

.3 Fires and burning of waste or materials is not permitted on site.

.4 Do not bury rubbish waste materials.

.5 Do not dispose of waste or volatile materials including but not limited to: mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.

.1 Ensure proper disposal procedures are maintained throughout project.

.6 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers, or onto adjacent properties

.7 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with authorities having jurisdiction.

.8 Protect trees, plants and foliage on site and adjacent properties where indicated.

.9 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work.

.10 Cover or wet down dry materials and waste to prevent blowing dust and debris. Control dust on all temporary roads.

## 1.9 EXISTING CONDITIONS

.1 Should material resembling spray or trowel applied asbestos or other designated substance be encountered in course of demolition, stop work, take preventative measures, and notify Owner immediately. Do not proceed until written instructions have been received.

.2 Structures to be demolished to be based on their present condition.

## 1.10 SCHEDULING

.1 Employ necessary means to meet project time lines without compromising specified minimum rates of material diversion.

# PART 2 PRODUCTS

## 2.1 EQUIPMENT

.1 Use mechanical equipment including various sizes of backhoe/excavators, excavator mounted attachments such as drills, shears, hoe ram hammers, concrete crushers, loaders and cranes, as applicable.

.2 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

# PART 3 EXECUTION

## 3.1 DEMOLITION WORK PHASING

.1 Perform demolition work as indicated on drawings.

## 3.2 PROTECTION

.1 Prevent movement, settlement or damage of adjacent structures, services, walks, paving, trees, landscaping, adjacent grades parts of existing building to remain.
- .1 Provide bracing, shoring and underpinning as required.
- .2 Repair damage caused by demolition.

.2 Support affected structures and, if safety of structure being demolished or adjacent structures or services appears to be endangered, take preventative measures, stop Work and immediately notify Owner

.3 Prevent debris from blocking surface drainage system, elevators, mechanical and electrical systems which must remain in operation.

## 3.3 SITE VERIFICATION OF CONDITIONS

.1 Investigate site and structures to determine demolition processing and storage logistics required prior to beginning of Work.

.2 Verify all surface and subsurface conditions prior to demolition. Contractors are responsible to make their own independent assessment of the subsurface conditions by whatever means possible, at no additional cost to Owner.
- .1 Contractor shall not make any claim for additional compensation as a result of variances in the subsurface conditions or the subsurface deconstruction scope.

.3 Due to the existing structures in the vicinity of the work area, which may be affected by the demolition works, pre-demolition inspections of adjacent structures, for both interior and exterior conditions, as well as asphalted surface, public sidewalks, conditions, are required.
- .1 All inspections shall be performed in accordance with applicable Federal and Provincial Privacy legislation including the Canadian Personal Information Protection and Electronic Documents Act (PIPEDA).
- .2 Documentation confirming compliance with this legislation shall be made available to the property owner and submitted with the pre-demolition inspection report.

.4 Develop strategy for demolition to facilitate optimum recyclable materials.

## 3.4 PREPARATION

.1 Do Work in accordance with Section 01 35 30 – Health and Safety Requirements.

.2 Temporary Erosion and Sedimentation Control:
- .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to: Requirements of authorities having jurisdiction that complies with EPA 832/R-92-005 or requirements of authorities having jurisdiction, whichever y is more stringent,
  - .1 Install silt fence in accordance with OPSS 219.110 – Light-Duty Silt Fence Barrier.
  - .2 Protect existing on site catch basins with filter cloth material during

deconstruction Work.

.3 Inspect, repair, and maintain erosion and sedimentation control measures including silt fence during deconstruction.

.4 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal after completion of deconstruction work.

.5 A geotextile shall be supplied and installed for the entire perimeter of the site hoarding for the project duration.

.3 Install temporary construction hoarding around each deconstruction staging zone.

.1 Install construction hoarding for each demolition phase at least 1.0 m away from the school building to permit continued emergency egress.

.4 Refer to mechanical and electrical documents for demarcation points of existing services interconnected between existing building to remain and demolition portions. Mechanical and electrical trades are responsible for cutting and capping of interconnected services and making safe within existing building for removal of remaining material through demolition contractor.

.5 Do not disrupt active or energized utilities traversing premises and designated to remain undisturbed.

.6 Remove rodent and vermin.

## 3.5 SAFETY CODE

.1 Blasting operations not permitted during demolition.

## 3.6 REMOVAL OF HAZARDOUS WASTES

.1 Remove contaminated or dangerous materials as defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimize danger at site or during disposal.

.2 Prior to start of demolition work remove contaminated or hazardous materials as defined by authorities having jurisdiction from site and dispose of at designated disposal facilities in safe manner and in accordance with Management of Designated Substances Specifications provided by Owner retained Consultants.

## 3.7 DEMOLITION

.1 Demolish parts of structure as shown on drawings.

.2 Demolish basement, crawl spaces, utility tunnels, indoor swimming pool structure, foundation walls and footings, and concrete floors below or on grade

.3 Remove existing mechanical and electrical equipment and services. Refer to mechanical and electrical documents for additional information. Demolition work shall include all mechanical & electrical materials & components including but not limited to the following, light fixtures/ballasts, panels, MCC, transformers, wiring & conduits, PA/comms systems,

fire alarm systems, components, ductwork, piping, air handling units, fans, chillers, cooling towers, rooftop units, pumps, piping, thermal insulation, fuel oil systems, refrigerants & refrigerant piping, split DX AC systems, plumbing fixtures and associated services and sprinkler & standpipe systems. All work identified passed the demarcation points shall be the responsibility of the demolition contractor.

.4 At end of each day's work, leave Work in safe and stable condition.

.5 Demolish to minimize dusting. Keep materials wetted.

.6 Demolish masonry and concrete walls in pieces suitable for recycling.

.7 Remove structural framing.

.8 Contain fibrous materials (e.g. Insulation) to minimize release of airborne fibres while being transported within facility.

.9 Do not dispose materials in landfill or waste stream destined for landfill.

.10 Remove and dispose of demolished materials except where noted otherwise and in accordance with authorities having jurisdiction.

.11 Use natural lighting to do Work where possible.
.1 Shut off lighting except those required for security purposes at end of each day.

## 3.8 STOCKPILING

.1 Label stockpiles, indicating material type and quantity.

.2 Designate appropriate security resources/measures to prevent vandalism, damage and theft.

.3 Separate from general waste stream each of following materials. Stockpile materials in neat and orderly fashion in location. Stockpile materials in accordance with applicable fire and safety regulations.
.1 Glass fibre ceiling tiles.
.2 Wood fibre ceiling tiles.
.3 Wiring and conduit.
.4 Outlets/switches.
.5 Metal duct work, baffles, HVAC equipment, piping and associated accessories.
.6 Demountable partitions.
.7 Drapes.
.8 Insulation – mechanical and building
.9 Miscellaneous metals.
.10 Electrical equipment – light fixtures, panel boards, transformers, etc.

.4 Supply separate, clearly marked disposal bins for categories of waste material.

## 3.9 REMOVAL FROM SITE

.1 Remove stockpiled material when it interferes with operations of project construction.

.2 Remove stockpiles of like materials by alternate disposal option once collection of materials is complete.

.3 Transport material designated for alternate disposal using approved facilities.

.4 Dispose of materials not designated for alternate disposal in accordance with applicable regulations.

**3.10 CLEANING**

.1 Keep site clean and organized throughout deconstruction.
.1 At end of each day's work, leave Work in safe, clean, and stable condition.

.2 Upon completion of project, remove debris, trim surfaces and leave work site clean.

.3 Upon completion of project, reinstate parking areas surfaces, walkways, light standards, affected by Work to condition which existed prior to beginning of Work to condition which existing prior to beginning of Work, match condition of adjacent, undisturbed areas.

**END OF SECTION**

# Addendum #3

To: Jacques Lavictoire | From: Shawn Doherty, P.Eng.

Date: 2020.05.25

Project No.: OTT00225207-I0 | Pages: 5

Subject: Ecole Elémentaires Horizon Jeunesse Tender Clarification - Addendum 3

Revised Figures – Reference to Figures

**This Addendum #3 supersedes Addendum #2 issued April 28, 2020.**

Item 1

EXP previously included the 2019 annual inspection (in Addendum #1) to display all the floor plans, corresponding room numbers and locations where asbestos has been identified. The annual inspection figures / floor plans (Figure 1 & 2) within the 2019 annual inspection report were updated to display the locations where demolition has already occurred within the Phase 1 Demolition program and are attached.

The February 27, 2020 Project Specific Designated Substances survey, previously issued in Addendum #1, is limited to the Phase 2 demolition project only and summarizes all designated substances (asbestos, lead, mould and others) that will be disturbed and includes sample numbers, asbestos concentrations, etc.. The figure referred to as “Vermiculite Investigation Plan” attached can be referenced as a general description of: 1) the section of the building to be abated and demolished; 2) the section of the building that has already been demolished; 3) the section of the building to be abated but not be demolished; and, 4) the section of the building that is not to be abated or demolished as part of this program. This revised figure is attached to this addendum.

Although the February 27, 2020 report referred to the 2018 Annual Inspection Report (since field work was conducted in the winter and spring of 2019), please refer to the 2019 annual asbestos inspection for information (asbestos location plan, room numbers) when reviewing the February 27, 2020 Project Specific Designated Substances Survey Report, The 2019 annual inspection is the most up to date annual asbestos inspection and incorporates the information from the Phase I Abatement and Demolition Program. The 2019 annual inspection report replaces the former 2018 that was referenced in the February 27, 2020 Project Specific DSS.

Item 2

It is to be understood that the Designated Substances Survey and / or annual inspection reports are not to used as “Detailed floor plans / architectural plans”. These reports highlight the location of the asbestos

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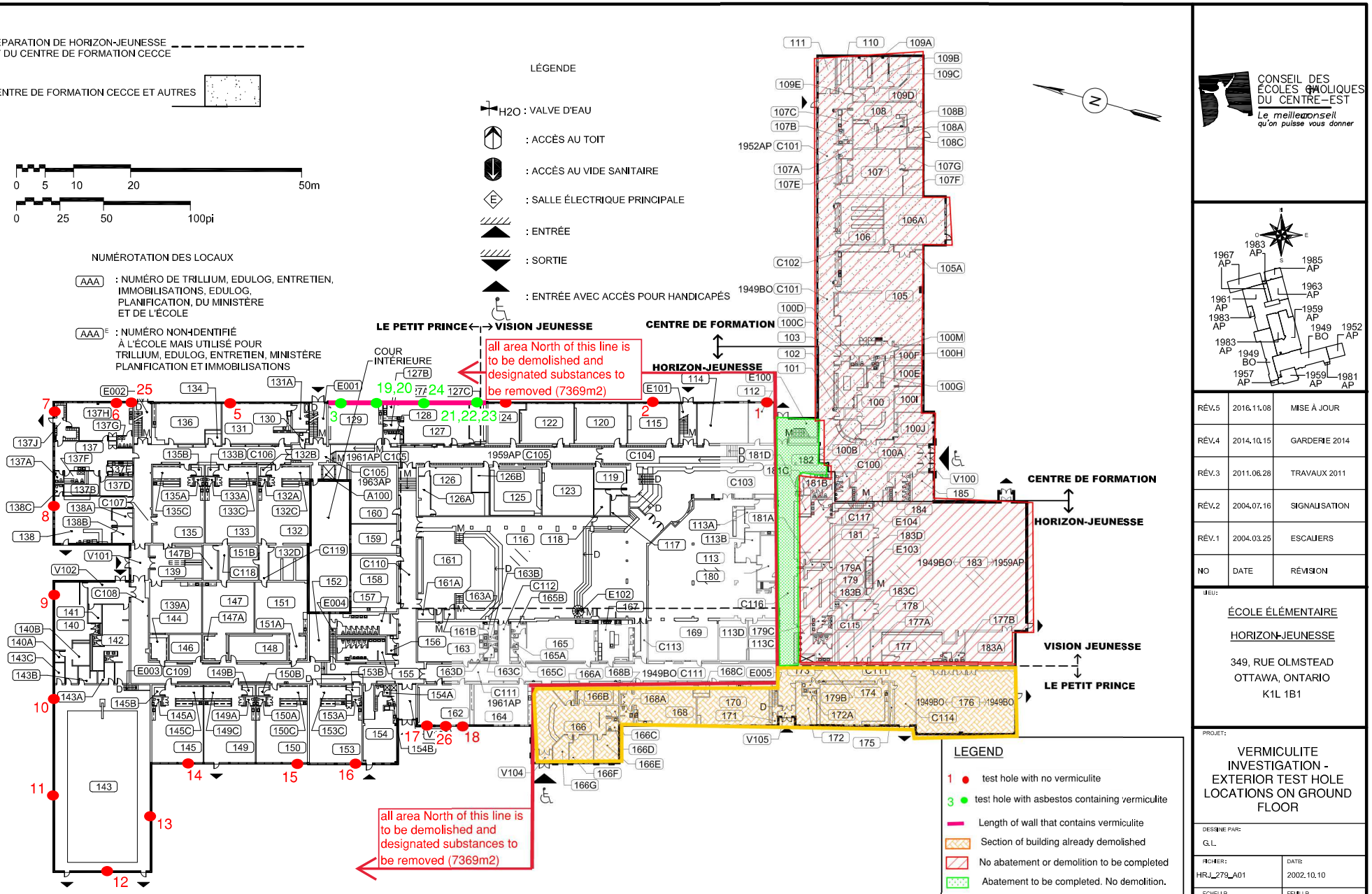
and other designated substances within the building. They serve as reference documents to establish where the designated substances are located within the building.

**EXP Services Inc.**

**Shawn Doherty, P.Eng.**
**Environmental Engineer**

**Attachments: Vermiculite Investigation Plan**
**Updated Figures (Figure 1 and 2 – 2019 Annual Inspection)**




CONSEIL DES ÉCOLES CATHOLIQUES DU CENTRE-EST
*Le meilleur conseil qu'on puisse vous donner*

| RÉV. | DATE | RÉVISION |
|---|---|---|
| RÉV.5 | 2016.11.08 | MISE À JOUR |
| RÉV.4 | 2014.10.15 | GARDERIE 2014 |
| RÉV.3 | 2011.06.28 | TRAVAUX 2011 |
| RÉV.2 | 2004.07.16 | SIGNALISATION |
| RÉV.1 | 2004.03.25 | ESCALIERS |
| NO | DATE | RÉVISION |

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OTTAWA, ONTARIO
K1L 1B1

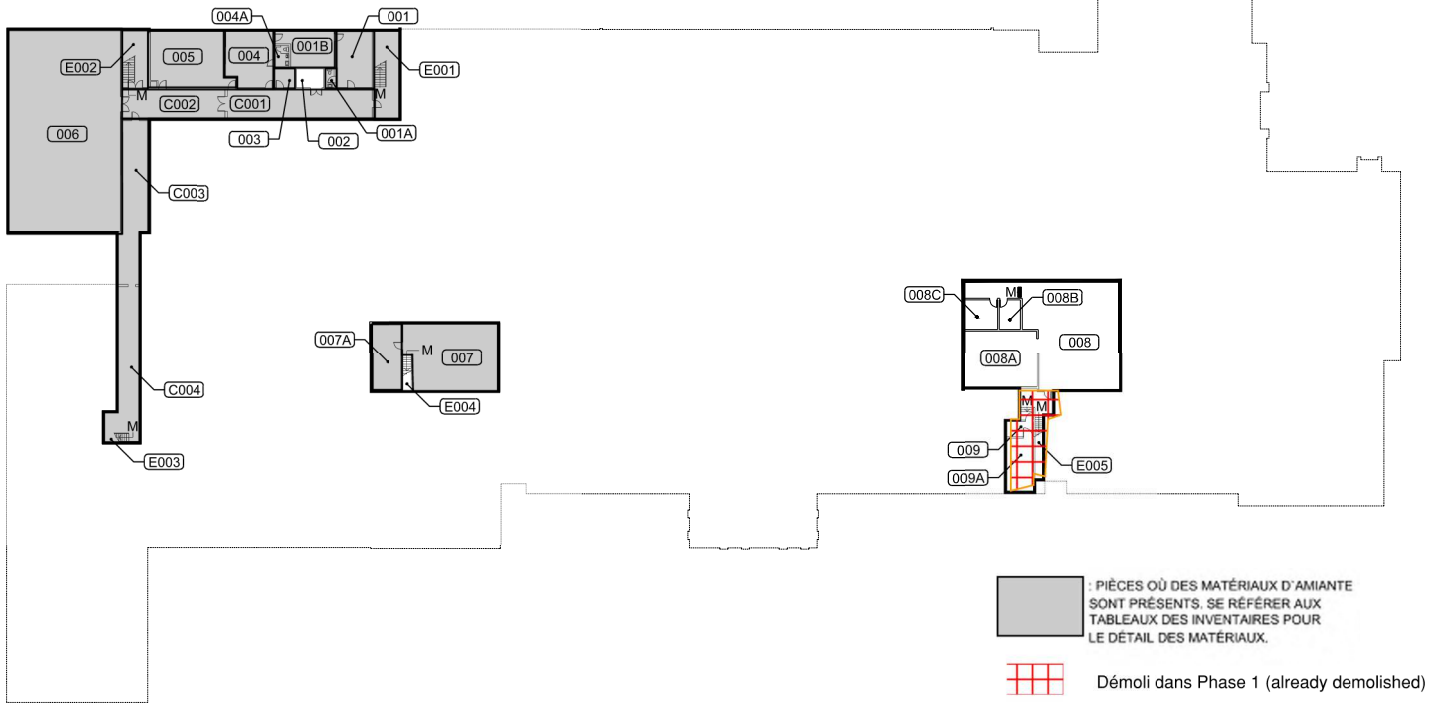
PROJET:

VERMICULITE INVESTIGATION - EXTERIOR TEST HOLE LOCATIONS ON GROUND FLOOR

| | |
|---|---|
| DESSINÉ PAR: G.L. | |
| FICHIER: HRJ_279_A01 | DATE: 2002.10.10 |
| ÉCHELLE: 1:600 | FEUILLE: A-2/4 |

**NOTE : LE PRÉSENT DESSIN EST RÉSERVÉ À L'USAGE INTERNE DU CECCE. L'ENTREPRENEUR EST RESPONSABLE DE VÉRIFIER TOUTES LES DIMENSIONS ET DE RAPPORTER AU CHARGÉ DE PROJET TOUTE ERREUR OU OMISSION AVANT DE PROCÉDER AUX TRAVAUX.**

TOUT LE PLÂTRE DE MUR DOIT ÊTRE CONSIDÉRÉ
DE CONTENIR DE L□AMIANTE




: PIÈCES OÙ DES MATÉRIAUX D'AMIANTE SONT PRÉSENTS. SE RÉFÉRER AUX TABLEAUX DES INVENTAIRES POUR LE DÉTAIL DES MATÉRIAUX.

Démoli dans Phase 1 (already demolished)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Ottawa, ON K2B8H6
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BASE PLAN SUPPLIED BY CONSEIL DES ÉCOLES CATHOLIQUES DE CENTRE-EST

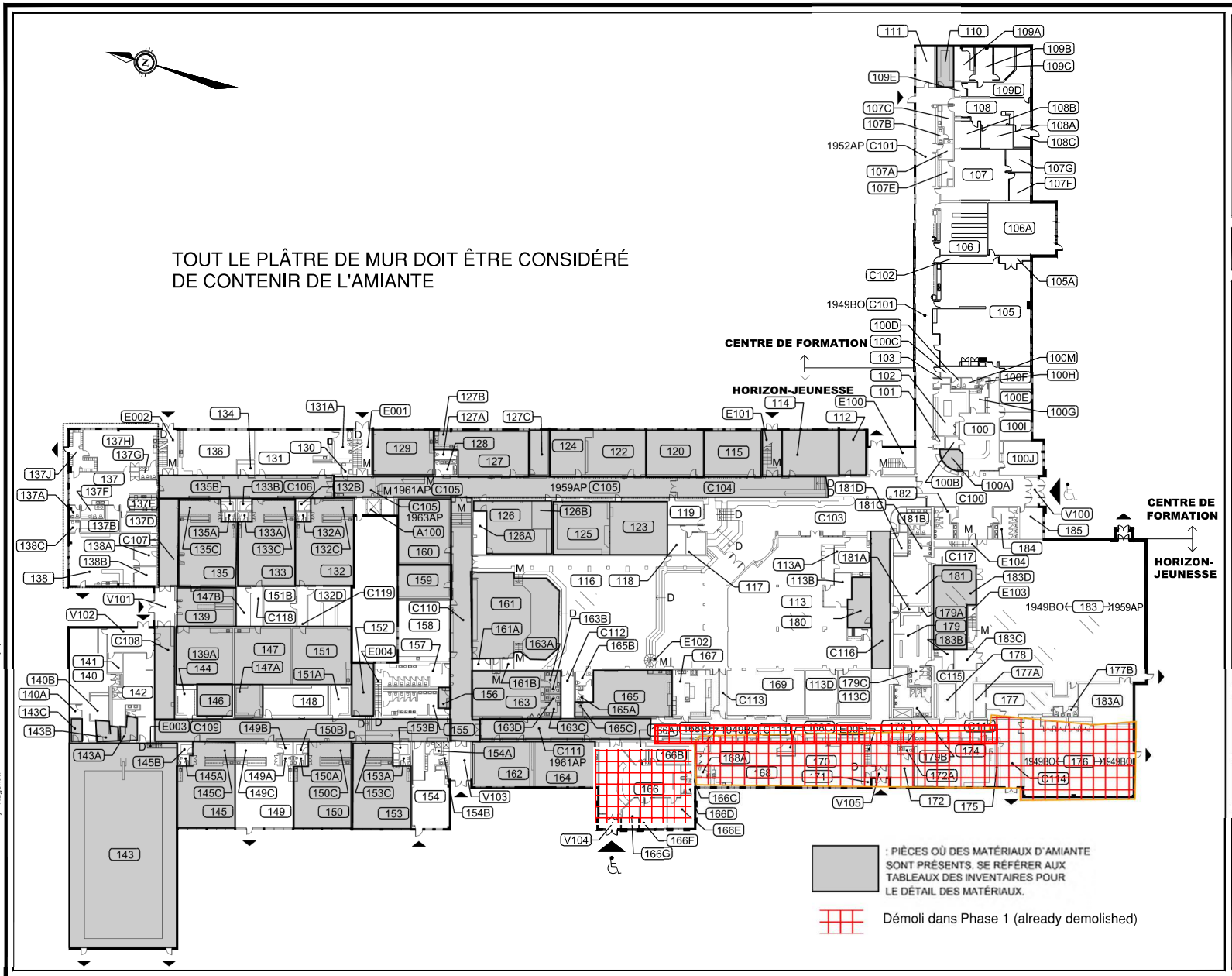
SCALE
0 6m 12m 24m
HORIZONTAL 1:600

CLIENT
CECCE
MATÉRIAU CONTENANT DE L'AMIANTE
RÉÉVALUATION ANNUELLE

PROJECT
ÉCOLE ÉLÉMENTAIRE
HORIZON-JEUNESSE
349, RUE OLMSTEAD, OTTAWA, ON

TITLE
BASEMENT /
SOUS-SOL

| | |
|---|---|
| date: SEPTEMBER 2019 | project no.: OTT-00225207-A0 |
| design by: | drawing no.: |
| prepared by: M.N. | FIG 1 |
| reviewed by: S.D. | |





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HORIZONTAL 1:600

CLIENT
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MATÉRIAU CONTENANT DE L'AMIANTE
RÉÉVALUATION ANNUELLE

PROJECT
ÉCOLE ÉLÉMENTAIRE
HORIZON-JEUNESSE
349, RUE OLMSTEAD, OTTAWA, ON

TITLE
FIRST FLOOR /
PREMIER ÉTAGE

| | |
|---|---|
| date: SEPTEMBER 2019 | project no.: OTT-00225207-A0 |
| design by: | drawing no.: FIG 2 |
| prepared by: M.N. | |
| reviewed by: S.D. | |


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# Addendum #4

To: Jacques Lavictoire | From: Shawn Doherty, P.Eng.

Date: 2020.05.28

Project No.: OTT00225207-I0 | Pages: 1

Subject: Ecole Elémentaires Horizon Jeunesse Tender Clarification - Addendum 4

Item 1 – Waste Audit Clarification

It is to be understood that the waste audit highlighted in Section 00 02 00 and 00 06 00 is not intended to be accurate volumes used to establish the demolition and waste disposal cost. The contractor cannot rely on those volumes / weights and / or request additional costs / fees based on deviations from those volumes / weights during the tender.

The onus is on the contractor to develop their demolition and waste disposal costs based on the review of reports, site walkthroughs, drawings and other available information. Instead, the volumes and weights outlined in the waste audit are provided as estimates only to ensure that all contractors are assessing their “waste management plans / options” based on similar information.

The submission of section 00 06 00 Waste Reduction Submission Form is to be completed by the winning bidder within 5 business days of notification of contract award. At that time, recycling / reuse percentages and detailed description of waste handling procedures will have to be appropriately detailed at that time and submitted to the client team for review.

Item 2 – Type 3 Enclosures

It is understood that it has been suggested that a large scale Type 3 enclosure can be completed / constructed for the abatement program. However, it is understood that several Type 3 enclosures can also be constructed based on the abatement contractor preference and / or general contractor schedule. The number of Type 3 enclosures is at the discretion of the contractor so as long as the enclosure and work procedures follow the asbestos abatement specifications submitted as part of the tender package.

**EXP Services Inc.**

**Shawn Doherty, P.Eng.**
**Environmental Engineer**

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**The following additions, deletions & revisions form part of the drawings and specifications for the above referenced project:**

---

## SPECIFICATIONS

**1. Reference Section 20 05 01 - Mechanical General Requirements:**

.1 Add Item 1.27 Demolition

.1 Refer to Architectural demolition drawings A030, A031, A051, A052, A055, A056 and A057 for phase 2 area demolitions, all mechanical installations contained within demolition areas are to be removed as per specification section 02 41 16. Mechanical contractor shall be responsible for the cutting, capping and making safe interconnecting services between existing building to remain and demolition portions as indicated on mechanical drawings, using licensed trades applicable to the systems being modified.

.2 Mechanical contractor shall recover all refrigerant from HVAC refrigeration equipment located with demolition areas and provide certificate of complete refrigerant evacuation prior to demolition of associated parts of building. Licensed refrigeration technician with a valid ODP card to recover all refrigerant from existing chillers, rooftop units and DX split AC units within the demolition portion of building and transport to licensed refrigerant disposal/management facility. Submit record of safe disposal. Existing building to be demolish contains 2x rooftop units, 12x split condensing units and evaporators, and a water cooled chiller.

## DRAWINGS

**1. Reference Drawing M1:**

.1 Reference PLUMBING FIXTURE SCHEDULE and Detail 3/M1 – STORM HEAT TRACING.

.1 Revise specified product for downspout, WSP, to be “NICKEL BRONZE DOWNSPOUT NOZZLE WITH REMOVEABLE STAINLESS STEEL SCREEN AND ANCHOR FLANGE - ZURN Z199-SS”

**2. Reference Drawing M3:**

.1 Reference Detail 2/M3 PLUMBING DEMOLITION GROUND FLOOR PARTIAL PLAN.

.1 Delete Drawing Note 2.

- END OF MECHANICAL ADDENDUM NO. M1 -



Issued by: Ryan Leonard, P.Eng. /cb

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Divyakant (Raj) Vyas (GWA – Electrical)
Jian Guan (GWA – Electrical)
Yves Lavictoire (GWA – Electrical)

**The following additions, deletions & revisions form part of the drawings and specifications for the above referenced project:**

## SPECIFICATIONS

1. **Reference Section 26 05 00 - Electrical General Requirements. Line Item 1.8 - Demolition:**

   .1 Revise item 1.8.9 and read as " Refer to Architectural demolition Drawings A030, A031, A051, A052, A055, A056 and A057 for Phase 2 area demolitions, all electrical light fixtures, switches and associated devices, power distribution, equipment, devices, mechanical equipment starters, disconnects, transformers, panels and splitters c/w all feeders, branch wiring shall be disconnected and removed from the site. All fire alarm devices c/w wiring shall be removed, contractor to relocate existing fire alarm wiring, devices and junction box in basement mechanical room as indicated in electrical drawing and verify. P.A system contractor to coordinate with school board and disconnect and remove all P.A equipment devices and wiring. Data contractor to coordinate with school board and disconnect and remove all data equipment, device c/w wiring. Security contractor to coordinate with school board and disconnect and remove all security devices c/w wiring. Refer to system specifications for more detail."

- END OF ELECTRICAL ADDENDUM NO. E1 -

***Goodkey, Weedmark & Associates Limited***

Issued by:
Divyakant (Raj) Vyas, P.Eng.,
MIEEE /cb

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