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Addendum

Partial Roof Replacement Queen Elizabeth Elementary School 470-19048

ADDENDUM # 1

Date: September 25, 2019

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The following amendment to the tender documents is effective immediately. This addendum shall form part of the contract documents.

Note: Please indicate this addendum number on the Contract Tender Form.

Item	Description
A - 1 - 1	<p>Refer to the specification section 7J – Modified Bitumen Roofing Membrane & Accessories:</p> <p>1. Delete Item 5 – Workmanship and replaced with the new section below.</p>
	<p><u>5. WORKMANSHIP</u></p>
	<p>a) All work shall be carried out in a workmanlike manner by qualified tradesmen following the highest expected standards for the work being performed and in compliance with all recommendations by the manufacturers of the various materials.</p> <p>b) Prior to beginning the work the contractor shall submit, to the Engineer for approval, technical literature which describes the modified bitumen membrane proposed for this project, also, supply fastening pattern to meet FM I-90 requirements. No material shall be ordered until approval for the proposed products is obtained in writing from the engineer.</p> <p>c) Remove existing roofing assembly to expose existing membrane. Verify that items scheduled to remain in place are not damaged during the course of the work. Repair vapour barrier at all locations where water infiltration may be evident to satisfaction of TIE representative. Contractor to notify TIE at least 24 hours prior to exposure of existing membrane for examination. Note that</p>

thermal imaging may be required at the expense of the owner, however, the contractor is to provide adequate time for imaging to be completed at no additional cost to the contract.

- d) Remove all dirt and debris from the substrate by sweeping and washing.
- e) Install all new blocking, curbs and woodwork as shown on drawings.
- f) **Option A:**
 - i. Fasten new polyiso insulation to the steel deck with mechanical fasteners and plates to FM I-90 requirements including bulletin I-28 for fastening to roof perimeters and corners which requires more fasteners. Provide 50% more fasteners on perimeter and 75% more fasteners on corners. Assume a factor of 0.4 x ht. of outside wall, to top of parapet to determine distance in from roof edge. Screws are to be located so as to screw into the top flute of the roof deck and project a maximum amount of 18 mm below the top flute as recommended by roofing product manufacturer. Beginning at the bottom of the slope, lay down the protection boards on the insulation in parallel rows, all joints between boards and insulation will be staggered. Install boards by butting edges snugly and without warping.
 - ii. Mechanically fasten 6 mm asphalt impregnated fibre.
 - iii. Install new roof drains. Ensure that all pipe joints are water tight. Contractor to ensure all roof drains are free from obstruction - confirm in presence of TIE representative.
 - iv. Torch base sheet on substrate.
 - v. Install metal flashings, gravel stops, vent stack covers, and roof drains. **Notify TIE representative at least 24 hours prior to covering thru-Wall flashings to allow inspection**
 - vi. Prime wood and flashing surfaces prior to torching base sheet flashing.
 - vii. Torch the base sheet flashing in place.
 - viii. Torch the cap sheet in place, position the rolls so that the side seams of the cap sheet do not coincide with the seams in the base sheet, minimum distance 300 mm. Overlap seams 75 mm on the sides and 150 mm on the ends. Application to be free of blisters, fishmouths, and wrinkles.
- g) **Option B:**
 - i. Place new EPS insulation with staggered joints.
 - ii. Place the first layer of 6mm asphaltic cover board
 - iii. Mechanically fasten the second layer of 6mm asphaltic cover board with staggered joints. Fasten the entire system to the steel deck with

mechanical fasteners and plates to FM I-90 requirements including bulletin I-28 for fastening to roof perimeters and corners which requires more fasteners. Provide 50% more fasteners on perimeter and 75% more fasteners on corners. Assume a factor of 0.4 x ht. of outside wall, to top of parapet to determine distance in from roof edge. Screws are to be located so as to screw into the top flute of the roof deck and project a maximum amount of 18 mm below the top flute as recommended by roofing product manufacturer. Beginning at the bottom of the slope, lay down the protection boards on the insulation in parallel rows, all joints between boards and insulation will be staggered. Install boards by butting edges snugly and without warping.

- iv. Torch base sheet on substrate.
 - v. Install new roof drains. Ensure that all pipe joints are water tight. Contractor to ensure all roof drains are free from obstruction - confirm in presence of TIE representative.
 - vi. Install metal flashings, gravel stops, vent stack covers, and roof drains. **Notify TIE representative at least 24 hours prior to covering thru-Wall flashings to allow inspection**
 - vii. Prime wood and flashing surfaces prior to torching base sheet flashing.
 - viii. Torch the base sheet flashing in place.
 - ix. Torch the cap sheet in place, position the rolls so that the side seams of the cap sheet do not coincide with the seams in the base sheet, minimum distance 300 mm. Overlap seams 75 mm on the sides and 150 mm on the ends. Application to be free of blisters, fishmouths, and wrinkles.
- h) All torching is to be done by experienced workmen – over burning will not be tolerated. The torching of the side seams is to produce a continuous visible bleed out of melted bitumen approximately 3 mm along the side seam.

- End of Addendum -