

**PART E**  
**SPECIFICATIONS**

## PART E - SPECIFICATIONS

### GENERAL

#### E1. APPLICABLE SPECIFICATIONS, STANDARD DETAILS AND DRAWINGS

- E1.1 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.1.1 *The City of Winnipeg Standard Construction Specifications* is available in Adobe Acrobat (.pdf) format on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division internet site at <http://www.winnipeg.ca/matmgt>.
- E1.1.2 Further to GC:2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.2 The following Drawings are applicable to the Work:

<u>Project/Sheet No.</u>	<u>Drawing</u>
2004-177/A-1	Roof Plan – 2 <sup>nd</sup> Floor
2004-177/A-2	Roof Plan - 3 <sup>rd</sup> Floor

#### E2. OUTLINE SPECIFICATIONS

- E2.1 Strip existing asphalt and gravel roof membrane assembly down to the deck and dispose of same. Take care to remove only that section of roof that can be completely re-roofed in the same day.
- E2.2 Dismantle and remove all roof mounted equipment including steel framing/supports, abandoned chimneys, pitch boxes and all metal tubular piping and dispose of same.
- E2.3 Over a clean dry deck, free of voids, sharp protrusions, etc. carefully install a two ply vapor retarder membrane with the first ply nailed and the second ply fully mopped to the first ply. Soprapap'r membrane is also approved for this application. Apply Soprapap'r peel and stick vapor retarder in accordance with manufacturer's recommendations and application instructions.
- E2.4 Over the vapour retarder membrane apply three (3") inches of polyisocyanurate composite board insulation in solid moppings of hot asphalt over laid with one half (1/2") layer of fibreboard with all joints staggered and in a brick pattern. Insulation panels shall be fully mopped ensuring all panels are tightly butted and stepped onto so that full adhesive contact is made with the vapor retarder. Ensure all blockings, curbs, drains, vents, etc. are adequately adjusted to accommodate changes with the new roof system.
- E2.5 (i) Over the insulation, a new four (4) ply built-up membrane shall be installed utilizing good roofing practices specified for C.R.C.A. Class A membranes. Fishmouthing, wrinkling or flag edges shall not be accepted. No two and two plies are acceptable on this project.
- The contractor shall make a concerted effort to completely re-roof all areas spend up in the same day to avoid the practice of glaze coating which generally result in damage to roofing felts on resumption of work. Overnight protection of new roofing felts not completely re-roofed, would then become mandatory and a glaze coat of approximately 50 pounds per square must be applied to the new roof membrane.
- (ii) Temporary tie-off shall be constructed using appropriate mastic and membrane. Permanent tie-ins to existing membranes shall be affected utilizing a minimum two (2) ply application of compatible mastic and membrane or four (4) plies of roofing felts and gravel.

Built-up flashings shall be reinforced with a two (2) ply mastic and membrane applications.

- E2.6 Over the entire surface, apply a flood coat of roofing asphalt type II at a rate of not less than 60 pounds per square into which, while hot embed not less than 400 pounds of fresh, clean, dry roofing gravel per square.
- E2.7 Re-install metal flashings, seal using a neoprene fastening system to properly water proof the roof system.  
Ensure that the roof system is completely watertight at the end of each workday throughout the duration of the project.

### **E3. MISCELLANEOUS RELATED WORK**

- E3.1 Ensure roof system, including perimeters, parapets, etc. is completely watertight for duration of project. Replace and make watertight where necessary plumbing vents, roof drains and other projections through roof. Provide screens for drains and caps for chimneys as required.
- E3.2 Check all roof projects, pitch boxes, chimneys, etc. and make watertight. Remove any dried out caulking and replace with new caulking. (See Roofing Specifications attached).

### **E4. CLEAN UP**

- E4.1 Following completion of the work herein specified, the contractor shall remove all equipment and surplus materials from the site, leaving it in a neat and tidy condition and satisfactory to the Planning, Property and Development Department.

### **E5. SAFETY PRECAUTION**

- E5.1 The Contractor shall ensure that equipment left on site hazardous to the public/users in particular kettles used for heating asphalt shall be protected/enclosed by a snow fence with a warning sign preferably painted on sheet metal and affixed to the snow fence.
- E5.2 All kettles must also be padlocked overnight if such equipment is left on site.