

PART E
SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E1.2 The following Appendices are applicable to the Work:

Appendix A 2004 Spring Sidewalk Sweeping Area

Appendix B Typical Sweeping Diagram

Appendix C Mechanical Sidewalk Sweeping Inspection Standards

Appendix D Mechanical Sidewalk Sweeping Inspection Report

Appendix E Contractor's Report

E2. WORK

E2.1 The Work to be performed under this Contract shall consist of the supply of all labour, materials, tools, equipment and supervision necessary for spring cleanup of sidewalks at various locations in the City of Winnipeg in accordance with applicable specifications.

E2.2 At any public or private establishment where a paved apron or filler strip extends beyond the property line, and is not separated by a fence, curb, stone or other barrier, the Contractor shall clean up such paved area up to a width of 1.5 metres (5 feet) beyond the property line. Such areas are included in the estimated quantities in Appendix "A".

E2.3 No equipment shall travel on bridge sidewalks listed as excluded in Appendix "A".

E2.4 The interiors of Transit shelters are excluded from this Contract.

E2.5 Where large amounts of mud have accumulated on a sidewalk as a direct result of watermain breaks and/or repairs, the City will endeavour to remove excessive amounts in advance of cleanup as may be reasonably attained using a front-end loader or similar device subject to E4.1.

E2.6 The sidewalks included in this Contract are identified in Appendix "A" attached hereto. The total area shown in square metres is subject to change in the event of minor additions or deletions.

E2.7 If, after successful cleanup, adverse weather results in the requirement for a repetition of cleanup, the Contractor shall repeat cleanup as instructed by the Contract Administrator. Payment shall be at the same unit price as initial cleanup.

E2.8 Commencement of work shall be subject to suitable weather conditions at the discretion of the Contract Administrator.

E2.9 Where overnight temperatures are not favourable to night time operations, the City, at its sole discretion, may require the Work to proceed during the daytime until temperatures improve.

E2.10 The Contractor shall establish a suitable routing system designed to provide for reasonable continuity and expediency in completing Work on a street-by-street basis. The routing shall take into consideration any priorities designated by the City.

E2.11 In designing a routing system, the Contractor shall take into consideration the need for a contingency plan in the event that conditions (i.e. temporary inaccessibility or residual ice, etc.)

may temporarily render a limited portion or one complete side of a street unsuitable for sweeping until a later date. The contingency plan shall provide for that portion affected to be swept at the earliest possible date. The Contractor shall accommodate reasonable alterations in the routine or scheduling that the City may deem necessary or desirable due to unforeseen circumstances and consideration for the public. The Contractor shall submit his routing system to the City for review at the earliest possible date after the pre-award meeting, and prior to the commencement of Work.

E2.12 All work is to be completed within twenty (20) working days from the start up date except as follows:

- (a) Adjustments made for inclement weather; or,
- (b) Other extensions as may be granted by the Contract Administrator

E2.13 The Contractor may work at any time of the day or night except as follows:

- (a) In the area bounded by and including Main Street, Ellice Avenue, Colony Street, Memorial Boulevard and Broadway, cleanup shall not take place between 06:00 hours and 18:00 hours, Monday to Saturday, inclusive, without a specific waiver from the Contract Administrator.
- (b) Within one block in any direction from a schoolyard or hospital, cleanup shall not take place between 08:00 hours and 16:30 hours, Monday to Friday, inclusive, without a specific waiver from the Contract Administrator.

E2.14 The Contractor shall not occupy the curb lane from 07:00 to 09:00 hours and 15:30 to 17:30 hours where posted.

E3. CLEANUP

E3.1 The Contractor shall ensure a high level of cleanliness by manually sweeping around poles, light standards, hydrants, around and under benches, mail boxes, newspaper stands and in front of buildings.

E3.2 The City will be the sole judge of the quality standard relating to the level of cleanliness, as per Appendix "C".

E3.3 The Contractor shall not sweep or scrape material off the sidewalks and into gutters. The Contractor shall completely remove any material inadvertently left in the gutters as the result of either manual sweeping or machine dumping operations.

E3.4 Where the Contractor elects to mechanically pre-scrape full-width sidewalks, mechanical scraping shall not take place within 0.3 metres (1 foot) of the face of curb to prevent excessive amounts of material being deposited in the gutter.

E3.5 The Contractor shall remove all materials from the gutter at the sidewalk ends to the satisfaction of the Contract Administrator.

E3.6 All debris collected during a shift shall be disposed of by the end of the shift in accordance with E3.8.

E3.7 The Contractor shall remove all paper and plastic products from the debris/abrasives, to the satisfaction of the Contract Administrator, before disposing of the debris at a private/public disposal site. The Contractor shall dispose of the paper and plastic products at a landfill site.

E3.8 The Contractor shall dispose of all debris and abrasives at either a public or private disposal site which the Contractor has authorization to use.

E3.9 The Contractor shall supply a copy of the written authorization to utilize dump sites other than specified public dumps at the earliest possible date after the pre-award meeting, and prior to the commencement of Work.

E4. CONTRACTOR'S RESPONSIBILITIES

E4.1 The Contractor shall become familiar with the locations, extent and purpose of the proposed Work, and shall determine the actual conditions and requirements of the Work. The Contractor shall be responsible for notifying the City at least ninety-six (96) hours in advance of any situation described in E2.5.

E4.2 Any drawings, calculations, or the like prepared by the City for its own use and furnished to Bidder at his request, shall be accepted by the Bidder entirely at his own risk and the City shall assume no responsibility for the information contained therein.

E4.3 The Contractor shall have a qualified supervisor or lead hand on duty at all times with each crew. This individual may be a working member of the crew; however, he/she must have full authority to direct other personnel and shall be responsible for the quality of work, safety procedures and adherence to all regulations pertaining to the performance of the Contract.

E5. EQUIPMENT

E5.1 Power sweeping equipment shall be of the mechanical-vacuum type or other suitable dust free operation acceptable to the Contract Administrator.

E5.2 Dump trucks using the curb lane for loading of sweepings must be equipped in accordance with the latest edition of the City of Winnipeg Manual of Temporary Traffic Control in Work Areas on City Streets.

E5.3 All vehicles shall be equipped in accordance with the Highway Traffic Act and shall include the following:

- (a) at least two (2) headlights,
- (b) brake lights at rear (where applicable), and
- (c) at least one (1) oscillating amber light on special mobile machines (where applicable).

E5.4 All equipment shall be clearly labelled, indicating the Contractor's name and unit number. Letters and numbers used for identification purposes must be a minimum of 100mm in height and positioned in such a manner as to be clearly visible when standing at either side of the machine.

E5.5 All equipment listed shall be made available for inspection by the Contract Administrator prior to the award of the contract. The inspection may include a demonstration that the equipment:

- (a) operates in a dust free manner, and
- (b) functions to provide a high degree of sidewalk cleanliness acceptable to the Contract Administrator.

E5.6 Power sweepers shall be used on bridges and subways within the contract limits other than those specified in Appendix "A".

Only if:

- (a) Maximum Width (Frame) = 1.37 m (54")
Maximum Empty Weight = 1110 kg (2450 lbs.)
Maximum Loaded Capacity = 1565 kg (3450 lbs.)
- (b) Operation on bridge sidewalk causes no damage to bridge sidewalk, railing, parapet or barrier.

E6. WORK REPORTS

- E6.1 The City will supply the Contractor with Daily Work Report forms (Appendix "E"). An original copy of the completed Work Report shall be faxed to a designated location immediately following the completion of each shift.

E7. SAFETY

- E7.1 The Contractor shall perform the Work in accordance with all applicable laws, by-laws and regulations, including, but not limited to the City of Winnipeg Manual of Temporary Traffic Control in work areas on City streets.

- E7.2 The Contractor shall be in possession of a current copy of the Manual of Temporary Traffic Control as a condition to the award of contract. Manuals are available from:

Permits Clerk
Customer Services Division
107-1155 Pacific Avenue

- E7.3 The Contractor shall supply all signs, cones and other temporary traffic control devices necessary for the performance of his duties.
- E7.4 Where "Moving Worksite" alternatives are acceptable, vehicle placement shall conform with the required distance specifications.
- E7.4.1 Traffic cones shall be spaced not more than 4 metres apart.
- E7.5 No employee shall occupy the curb lane in performance of his or her duties without protection as required by the applicable situation of the Manual of Temporary Traffic Control or as otherwise directed by the City to enhance safety.
- E7.6 The contractor shall ensure that all personnel engaged in cleanup wear a disposable respirator with a N-95 classification, wear a reflectorized safety vest and wear safety boots.
- E7.7 Failure to meet acceptable safety standards may result in the closure of the Work site for a specified period of time.

APPENDIX "A"

2004 SPRING SIDEWALK SWEEPING AREA (all measurements are in square metres)

The following figures may be subject to change due to minor additions, deletions or as other circumstances may dictate:

<u>STREET</u>	<u>LIMITS</u>	<u>Regional</u>	<u>Local</u>
Adelaide	Notre Dame - Elgin		2328
Albert	Bannatyne - Bannatyne		2407
Alexander	Disraeli - Waterfront		1783
Alexander	Princess - Main	981	
Amy	Rupert - James		151
Arlington	Notre Dame - Logan	4571	
Arthur	Bannatyne – Notre Dame		1762
Austin	Henry - Higgins		762
Balmoral	St. Mary - Ellice		2753
Balmoral	Ellice – Notre Dame	4292	
Bannatyne	Waterfront - Hargrave		4037
Bertha	James - Market		46
Broadway	Portage - Main	15656	
Carlton	Notre Dame - Broadway	6219	
Colony	Ellice - Broadway	3993	
Cooper	Colony - Osborne		185
Cumberland	Donald - Maryland	5662	
Deacon	Kennedy – 40m W of Kennedy		128
Disraeli	Main - Martha	496676	
Donald	Notre Dame – Hargrave Pl	6100	
Edmonton	Notre Dame - Ellice		2863
Edmonton	Broadway - Portage	4088	
Elgin	Adelaide - Princess		851
Ellice	Maryland - Notre Dame	8757	
Fort	Broadway - Portage	4563	
Furby	Portage – 76m S of Portage		490
Garry	Ellice - Broadway	5363	

<u>STREET</u>	<u>LIMITS</u>	<u>Regional</u>	<u>Local</u>
Good	Portage – St. Mary		960
Graham	Vaughan - Main	6065	
Hargrave	Broadway - Portage	3356	
Hargrave	Portage - William		4595
Hargrave Place	Donald - Smith	80	
Henry	Princess - Disraeli		1270
Higgins	Princess - Louise Bridge	10083	
Isabel	Notre Dame - Logan	4798	
James	Lily - Waterfront		871
James	Princess - Main	1314	
John Hirsch Pl.	West Limit – East Limit		750
Kennedy	Cumberland - Broadway	6627	
King	Notre Dame - Higgins	7414	
Langside	Portage - Broadway		1717
Lily	Market - Henry		2117
Logan	Arlington - Disraeli	12373	
Lombard	Waterfront - Main		3650
Main	Assiniboine - Redwood	35193	
Maple	Higgins - Henry		865
Market	Main - Bertha		2060
Market Square			2097
Martha	Henry - Rupert		1586
McDermot	Waterfront - Adelaide		3967
Memorial	Broadway - Portage	3673	
Mill	Lombard – South End		60
Navy Way	Assiniboine - Smith		637
Notre Dame	Portage - Lipton	15902	
Osborne	St. Mary – Osborne St. Bridge	3723	
Pacific	Waterfront - Princess		2797
Pioneer	Waterfront - Main	3228	
Portage	Main - Doreen	43105	
Portage Avenue E.	Main - Westbrook	1460	

<u>STREET</u>	<u>LIMITS</u>	<u>Regional</u>	<u>Local</u>
Princess	Notre Dame - Higgins	6559	
Provencher Bridge (includes walks on both vehicular & pedestrian bridges)	Traffic lights E of Waterfront - Tache	4060	2816
Quappelle	Hargrave – lane W of Carlton		1143
Quappelle	Edmonton - Balmoral		1354
Queen Elizabeth Way (includes bicycle path area on bridge)	Assiniboine – Lyndale Dr.	8428	
Rorie	Lombard - Market		1940
Rupert	Princess - Amy		2750
Sargent	Maryland - Edmonton	4569	
Sherbrook	Notre Dame - Logan	5357	
Sherbrook	Portage – 74m S of Portage	497	
Ship	McDermot - Bannatyne		147
Smith	N. Limit of Midtown Bridge - Notre Dame	6123	
Spence	Ellice - Portage		2021
St. Mary	Portage - Main	7081	
Vaughan	York - Ellice	5135	
Water	Main - Waterfront	3567	
Waterfront Dr	Lombard - York	3664	
Webb	Colony - Vaughan		502
Wesley	Main - East End		71
Westbrook	Water - Lombard	1592	
William	McPhillips – Main	14974	
York	Colony – Waterfront	8674	
Young	Ellice – Portage		828

TOTAL

309415

61301

GRAND TOTAL

370716

2004 SPRING SIDEWALK SWEEPING AREA (Appendix "A" cont'd)

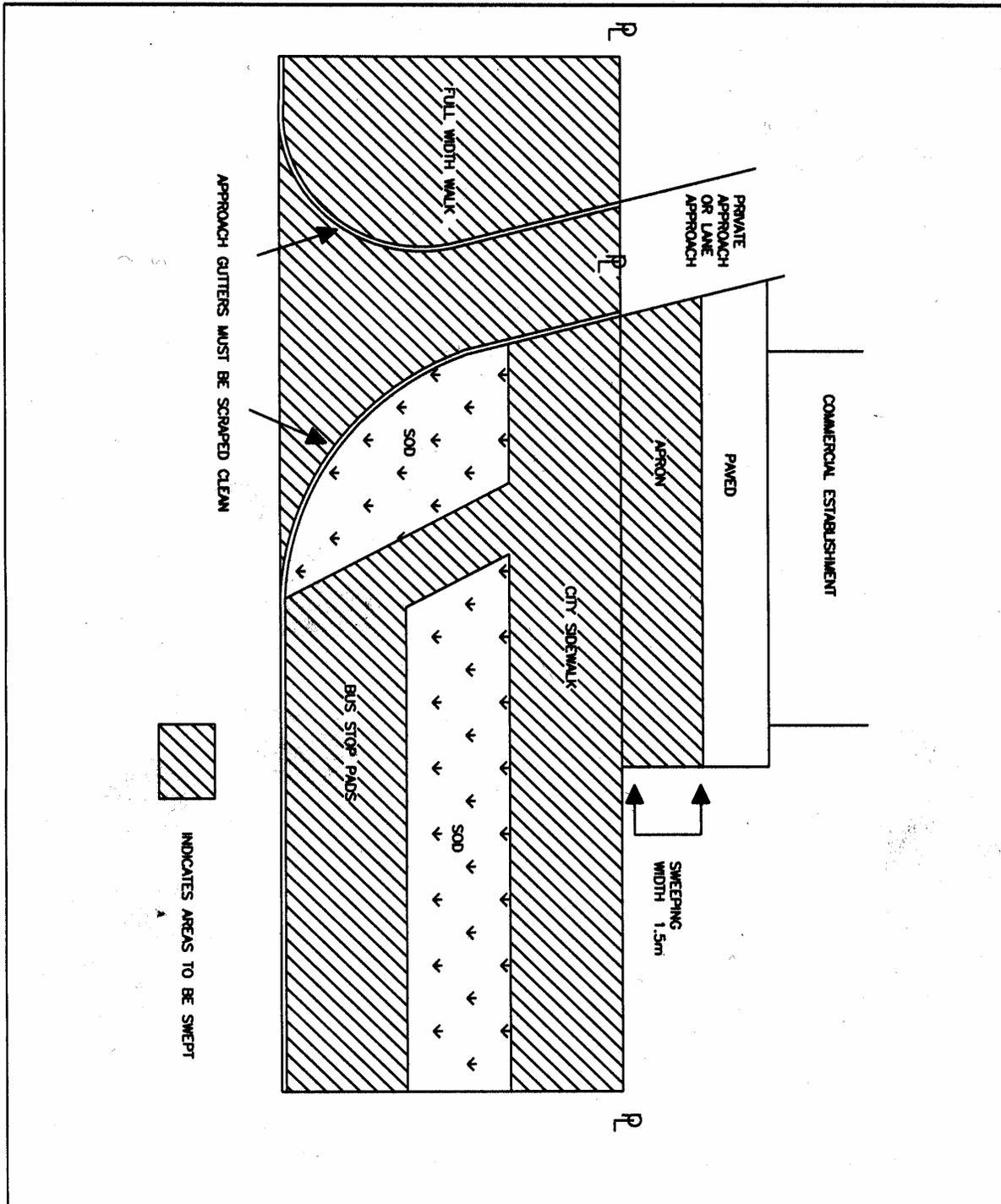
Prioritization of the sweeping of sidewalks in this schedule of streets shall be subject to the City's approval.

1. Specific bridge decks to be excluded:

-Midtown Bridge Decks are excluded, but ramps are included.

APPENDIX "B"

TYPICAL SWEEPING DIAGRAM



THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 TECHNOLOGY SERVICES BRANCH
 106 - 1155 PACIFIC AVE

APPENDIX "B" TYPICAL SWEEPING DIAGRAM

DATE:
 01-02-01

DRAWING NO.
 01

DRAWN BY:
 T.W.D.

SCALE:
 N.T.S

APPENDIX "C"

MECHANICAL SIDEWALK SWEEPING INSPECTION STANDARDS

OBJECTIVE

To provide a high standard of cleanliness on those Regional Streets that have a high public profile due to large volumes of pedestrian traffic and are highly visible to the tourist traffic.

QUALITY OF WORKMANSHIP

A high standard of work is essential to achieve the above-mentioned objective. Therefore, the following quality rating system has been developed and will be applied by way of a field inspection on a block-by-block basis.

RATING FACTORS

1. RESIDUAL FINES: Is the amount of dust or fine material left behind.
2. TAILINGS: Occasionally, when a machine is not functioning efficiently, a small trail of granular material is left behind.

NOTE: Placing one hand labourer behind the operation as a clean up man helps to rectify this problem.

3. SCRAPING: All areas of hard packed mud and granular material must be scraped loose. The only exception is where large quantities of mud, due to a watermain break, result in an excessive situation, in which case, the Inspector will arrange to have the Waterworks people remove the heavy material from these areas so that no more than one inch (1") remains. The balance is to be removed by the Contractor.
4. APPURTENANCES: (Under and/or around benches, newspaper and mail boxes, poles and to include level doorways)

Where possible, moveable appurtenances should be shifted to ensure that all material around and under items have been removed.

5. GUTTERS: All material from sidewalk (and curbs where applicable) is to be cleaned up and removed by the Contractor. Anything in excess of one-half inch (1/2") of material which goes into the gutter as the result of scraping and hand labour operations, is to be removed by the Contractor. It is advisable, therefore, to instruct all personnel to scrape and hand sweep this material in towards the sidewalk to minimize this problem. The only alternative is to make a pass along the gutter on completion of the walk.

Either of the above alternatives may result in the need to utilize the curb lane, in which case, short term signing in accordance with the City of Winnipeg, Manual of Temporary Traffic Control must be adhered to. All foremen/lead hands are to be made familiar with this manual in the event of its need for implementation.

RATING VALUES:

All of the five rating factors have a maximum value of 12 points and are subdivided as follows:

- 0- 3 points: Extremely poor to poor quality
- 4- 6 points: Poor to fair quality
- 7- 9 points: Fair to good quality
- 10-12 points: Good to excellent quality

Where two figures are shown one over the other, i.e. 4/9, the intention is to indicate that the overall quality is good, but there are one or more spot locations that require attention as noted in the "Remarks" column.

Any value of less than 6 is not acceptable and either the spot locations, or the entire block, if applicable, must be attended to within 24 hours of notification (weather permitting).

APPENDIX "D"

MECHANICAL SIDEWALK SWEEPING INSPECTION REPORT

SIDE: _____ STREET: _____ DATE: _____ TIME: _____

USE ONE SHEET FOR EACH SIDE OF STREET

From	To	Residual Fines	Trailings	Scraping	Appurtenances	Gutters	Remarks

Make up in duplicate: Original to Contractor
Duplicate kept by Inspector

INSPECTED BY: _____

APPENDIX "E"
CONTRACT SIDEWALK SWEEPING
CONTRACTOR'S REPORT

OPERATION TYPE:

SPRING CLEAN UP _____
 REGULAR SWEEPING _____

DATE: _____
 CONTRACTOR: _____
 FOREMAN: _____

CREW #: _____ CREW START TIME: _____ CREW STOP TIME: _____

MECHANICAL SWEEPER: (Make & Model)

1. _____
2. _____
3. _____

MACHINE HOURS WORKED: _____ (Hrs.)
 BREAKDOWN TIME: _____ (Hrs.)
 WAITING TIME: _____ (Hrs.)

MANUAL SWEEPING:

NO. OF PERSONS _____

TOTAL MAN HOURS: _____

ACCOMPLISHMENT:

NO. OF DUMPS _____

ESTIMATED QUANTITY: _____ cu.m

Side	Street	From	To	Completion Status (1)	City Acceptance

COMMENTS: (Weather conditions, problems encountered)

NOTE: (1) Fully completed: Mark
 (2) Partially completed: Mark X

If additional space is required for locations, use reverse side