

BILL NO. 1
GENERAL ITEMS

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 00 72 00 - GENERAL CONDITIONS</u>		
1	Bonds.....	\$ _____
2	Insurance.....	\$ _____
3	Permits and fees.....	\$ _____
4	Supervision.....	\$ _____
<u>SECTION 01 32 17 - SCHEDULE</u>		
5	90 day schedule	\$ _____
6	Contract schedule	\$ _____
<u>SECTION 01 33 00 - SUBMITTALS</u>		
7	Submittals.....	\$ _____
<u>SECTION 01 33 23 - SHOP DRAWINGS</u>		
8	Shop drawings.....	\$ _____
<u>SECTION 01 40 00 - QUALITY REQUIREMENTS</u>		
9	Quality requirements including QA/QC manager.....	\$ _____
<u>SECTION 01 50 00 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS</u>		
10	Temporary building / site office including phone, fax, first aid equipment etc. (Contractor).....	\$ _____
11	Temporary washroom.....	\$ _____
12	Temporary utilities (water, power, lighting, etc.).....	\$ _____
13	Project identification signs / temporary site signage.....	\$ _____
14	Site maintenance / cleaning / garbage removal.....	\$ _____
15	Power washing and videotaping.....	\$ _____
16	Temporary winter heating and protection.....	\$ _____
17	Temporary access / paths / steel road plate protection to cable troughs.....	\$ _____
18	Removal / re-instatement of existing hoarding for installation of new fire main.....	\$ _____
19	Temporary hoarding - chain link fence around the contractors lay down area.....	\$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 1
GENERAL ITEMS (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
20	Temporary hoarding - plywood hoarding / metal studs complete with access doors.....	\$ _____
21	Temporary hoarding - dust tight partitions.....	\$ _____
22	Temporary protection to wheel truing machine area from damage during demolition of blow down platform between track 12 & 13.....	\$ _____
23	Temporary weatherproof protection / hoarding.....	\$ _____
24	Miscellaneous hoarding, barriers and guardrails.....	\$ _____
25	Track stops (bumping posts).....	\$ _____
<u>SECTION 01 55 26 - TRAFFIC</u>		
26	Traffic.....	\$ _____
27	Road clean-up / snow removal.....	\$ _____
<u>SECTION 01 57 13 - EROSION AND SEDIMENT CONTROL</u>		
28	Erosion and sediment control.....	\$ _____
<u>SECTION 01 57 19 - ENVIRONMENTAL CONTROLS</u>		
29	Environmental controls.....	\$ _____
30	Dust and air quality control / noise control and vibration monitoring.....	\$ _____
31	Hazardous material (asbestos / transite) removal / disposal (if found).....	\$ _____
<u>SECTION 01 59 00 - SAFETY</u>		
32	Safety.....	\$ _____
33	Utility locates.....	\$ _____
34	Fire protection.....	\$ _____
35	Training, awareness and orientation.....	\$ _____
<u>SECTION 01 71 00 - EXAMINATION, PROTECTION AND RESTORATION OF PROPERTY</u>		
36	Examination, protection and restoration of property.....	\$ _____
37	Preconstruction survey / photographic report.....	\$ _____
<u>SECTION 01 71 23 - FIELD ENGINEERING</u>		

38 Field engineering.....\$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 1
GENERAL ITEMS (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 01 73 29 - CUTTING AND REMEDIAL WORK</u>		
39	Cutting and remedial work.....	\$ _____
40	X-raying / scanning.....	\$ _____
<u>SECTION 01 74 11 - CLEANING</u>		
41	Final cleaning.....	\$ _____
<u>SECTION 01 74 19 - WASTE MANAGEMENT</u>		
42	Waste management.....	\$ _____
<u>SECTION 01 78 23 - OPERATION AND MAINTENANCE MANUALS</u>		
43	Operation and maintenance manuals	\$ _____
44	Warranty certificates	\$ _____
<u>SECTION 01 78 25 - MAINTENANCE</u>		
45	Preliminary maintenance plan	\$ _____
46	Maintenance plan	\$ _____
47	Regular scheduled maintenance.....	\$ _____
<u>SECTION 01 78 39 - AS-BUILT DOCUMENTS</u>		
48	As-built documents (record documentation).....	\$ _____
<u>SECTION 01 79 00 - TRAINING</u>		
49	Operation and maintenance training plan.....	\$ _____
50	Training course material	\$ _____
51	Maintenance and operation training.....	\$ _____
<u>SECTION 01 91 00 - COMMISSIONING</u>		
52	Commissioning plan	\$ _____
53	Commissioning procedures.....	\$ _____
54	Commissioning	\$ _____

TOTAL BILL NO. 1 (INCLUDED IN ITEM NO. 1 IN BILL NO. 6 - PRICE SCHEDULE)..... \$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 2
SITWORK

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 02 41 23 - DEMOLITION AND REMOVALS</u>		
55	Site preparation / protection including removal and disposal of existing ballasts.....	\$ _____
56	Cut track "16" rails to allow for installation of new track connection to new "Turntable" between grid "8X" and grid "8A".....	\$ _____
57	Removal of existing fire hydrant monitor towers and platforms.....	\$ _____
58	Removal of electrical hydro / lighting poles including trenching, backfilling and site restoration.....	\$ _____
59	Remove and dispose existing concrete apron / concrete pads.....	\$ _____
60	Remove and dispose existing asphalt walkway and granular base.....	\$ _____
61	Remove and store existing temporary concrete barriers.....	\$ _____
62	Remove and salvage for re-installation - existing steel.....	\$ _____
63	Saw cutting, removal of existing exterior duct bank.....	\$ _____
64	Temporary support for existing hollow core slab and precast "Tee" during construction on gridline "C" and "D".....	\$ _____
65	Temporary support for existing cable tray along grid "22".....	\$ _____
66	Temporary shoring to support existing wall prior to excavation including concrete footings (along grid "E" - between grids "16Y" and "22").....	\$ _____
67	Temporary bracing / support (temporary beam, column and bracings) to existing roof structure at grid line "22" during and after removal of the walls until new concrete frame is constructed.....	\$ _____
68	Temporary column / cross-bracing between grid "C" and "D" along grid "22".....	\$ _____
69	Temporary support / bracing / shoring for removal / demolition of existing concrete stair to elevated concrete platform.....	\$ _____
70	Temporary shoring / support to existing electrical duct bank (splice room).....	\$ _____
71	Temporary support to existing electrical duct banks during excavation.....	\$ _____
72	Temporary shoring / support / protection to existing 100mm electrical duct bank during north addition for tracks 7 & 8.....	\$ _____
73	Temporary shoring / support / bracing as required for the installation of new "turn tables".....	\$ _____
74	Remove and dispose overhead doors / exterior doors.....	\$ _____

75 Remove and dispose existing exterior masonry wall assembly including parapets..... \$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 2
SITWORK (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
76	Sawcut, remove and dispose existing foundation wall and footings along grid "22".....	\$ _____
77	Sawcut, remove and dispose existing raised platform.....	\$ _____
78	Sawcut, remove and dispose existing pit walls, stairs and slabs for new pit.....	\$ _____
79	Sawcut, remove and dispose concrete for blow down equipment.....	\$ _____
80	Demolition and removals for new turn tables.....	\$ _____
81	Removal of existing structural steel framing for pendent replacement within existing car house.....	\$ _____
82	Miscellaneous demolitions, removals and relocations / restorations.....	\$ _____
SECTION 03 10 00 - CONCRETE FORMWORK AND FALSEWORK SECTION 03 20 00 - CONCRETE REINFORCEMENT <u>SECTION 03 30 00 - CAST-IN-PLACE CONCRETE</u>		
83	Mud slab.....	\$ _____
84	Concrete / formwork in oil interceptor pits.....	\$ _____
85	Concrete encasement to existing storm sewer protection below SOG - including waterproofing, compressible filler, etc.....	\$ _____
86	Concrete / formwork in area drain pits, track area drain pits, sediment sump pits, sediment sump pits and trench drains.....	\$ _____
87	Concrete / formwork in hoist pit walls and slabs.....	\$ _____
88	Concrete / formwork in track pits.....	\$ _____
89	Concrete / formwork in pier footings and wall footings.....	\$ _____
90	Concrete / formwork in piers.....	\$ _____
91	Concrete / formwork in grade beams.....	\$ _____
92	Concrete / formwork in walls.....	\$ _____
93	Concrete / formwork in columns.....	\$ _____
94	Concrete / formwork in suspended structural slab.....	\$ _____
95	Concrete / formwork in cast-in-place concrete stairs.....	\$ _____
96	Concrete including formwork in wall / footings in existing building - blowdown system.....	\$ _____

97 Concrete including formwork in suspended slab in existing building - blowdown system..... \$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 2
SITWORK (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
98	Concrete including placing and finishing at composite steel deck.....	\$ _____
99	Concrete / formwork / placing and finishing structural concrete ramp.....	\$ _____
100	Concrete / formwork - bulkheads including placing and finishing structural slab on grade.....	\$ _____
101	Concrete including placing and finishing track infill slab for new tracks.....	\$ _____
102	Grout pads / grout columns to support rails.....	\$ _____
103	Concrete / formwork to turn table pit in the new expansion area.....	\$ _____
104	Concrete / formwork to turn table pit in existing carhouse.....	\$ _____
105	Concrete / formwork to new concrete frame / existing pre-cast concrete beam connection along grid "22" at roof level.....	\$ _____
106	Concrete / formwork to electrical manhole / maintenance chamber.....	\$ _____
107	Concrete / formwork to new duct banks to/from splice room.....	\$ _____
108	Concrete infill / placing and finishing recessed areas at turntable pit and tracks after rail installation.....	\$ _____
109	Supply and place reinforcing steel including rebar accessories.....	\$ _____
110	Drilling and grouting reinforcing steel dowels.....	\$ _____
111	Miscellaneous concrete work including housekeeping pads, curbs, concrete bollards, concrete restoration work etc.....	\$ _____
112	Concrete accessories including waterstops, expansion and contraction joints, etc.....	\$ _____
<u>SECTION 03 45 15 - INDUSTRIAL RIBBED INSULATED PRECAST CONCRETE WALL PANELS</u>		
113	Precast concrete ribbed wall panels.....	\$ _____
114	Precast concrete smooth wall panels / accent bands.....	\$ _____
115	Precast concrete sandblasted grey panels.....	\$ _____
116	Precast concrete sandblasted wall panels.....	\$ _____
117	Recessed letters cast into precast panels.....	\$ _____
118	Precast concrete window sills.....	\$ _____
119	Miscellaneous works including tie-ins with the existing wall panel, dowels / anchors / supports /	

sealant and backer rod.....\$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 2
SITWORK (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 04 20 00 - UNIT MASONRY</u>		
120	Concrete block wall (290mm thick).....	\$ _____
121	Concrete block wall (190mm thick).....	\$ _____
122	Cleaning / pressure washing existing masonry walls.....	\$ _____
123	Miscellaneous masonry work including placing rebar, expansion joints etc.....	\$ _____
<u>SECTION 05 12 00 - STRUCTURAL STEEL</u>		
<u>SECTION 05 21 00 - STEEL JOISTS</u>		
124	Structural steel framing to roof including steel columns, beams, bracings and higher parapet framing/support.....	\$ _____
125	OWSJ to roof.....	\$ _____
126	Snow shelf / roof - structural steel framing / bracing including snow roof steel cover plate / panel.....	\$ _____
127	Structural steel framing / support to roof top mechanical units.....	\$ _____
128	Structural steel framing for crane runway beam support.....	\$ _____
129	Structural steel framing / support to jib crane.....	\$ _____
130	Structural steel framing for traction power (trolley beams, hangers & bracings).....	\$ _____
131	Structural steel framing / bracing for blowdown system - extended platform.....	\$ _____
132	Structural steel column / posts support including connections / grouting for the elevated tracks.....	\$ _____
133	Structural steel framing / supports to steel stairs.....	\$ _____
134	Tie-in the new roof structure with the existing roof structure.....	\$ _____
135	Overhead door jamb framing / supports.....	\$ _____
136	Miscellaneous structural steel framing, connections and accessories.....	\$ _____
<u>SECTION 05 31 00 - STEEL DECK</u>		
137	Steel roof deck.....	\$ _____
138	Composite steel deck.....	\$ _____
139	Miscellaneous infills at roof penetrations.....	\$ _____

BILL NO. 2
SITWORK (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
SECTION 05 50 00 - METAL FABRICATIONS		
SECTION 05 52 00 - PLATFORM RAILINGS		
SECTION 05 53 00 - GRATINGS		
140	Lateral support for masonry partitions.....	\$ _____
141	Storage room / splice room stair and railings.....	\$ _____
142	Stairs and railings at roof expansion joint.....	\$ _____
143	Roof access stairs / railings and gratings.....	\$ _____
144	Splice room access stairs / railings and gratings.....	\$ _____
145	Platform stairs / railings and gratings.....	\$ _____
146	Steel stairs and railings.....	\$ _____
147	Blowdown platform stairs and railings.....	\$ _____
148	Railings at concrete stairs / ramps.....	\$ _____
149	Miscellaneous steel supports / closure plates / bent plates for mechanical and electrical equipment including supports for hose reels, transformers etc.....	\$ _____
150	Miscellaneous metal fabrications including anchors, supports and restoration work.....	\$ _____
SECTION 06 10 00 - ROUGH CARPENTRY		
151	Wood blocking / sheathing at metal siding assembly and parapets.....	\$ _____
152	Wood blocking, stud framing, sheathing & insulation at water retention area roof curb.....	\$ _____
153	Wood blocking, stud framing, sheathing and insulation at roof tie-in (new roof to existing) and roof transitions.....	\$ _____
154	Wood blocking, curbs and sheathing to roof top mechanical equipment and penetrations.....	\$ _____
155	Miscellaneous wood blocking / rough carpentry.....	\$ _____
SECTION 07 01 50 - MEMBRANE REROOFING PREPARATION		
156	Removal / repairs / restoration of existing roofing at junction with new construction.....	\$ _____

BILL NO. 2
SITWORK (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 07 13 00 - SHEET WATERPROOFING</u>		
157	Waterproofing at splice room slab, walls and hoist pits.....	\$ _____
158	Waterproofing to sump pits, oil interceptor, area drains and electrical maintenance hole / chamber.....	\$ _____
159	Miscellaneous waterproofing.....	\$ _____
<u>SECTION 07 21 00 - THERMAL INSULATION</u>		
160	Thermal insulation.....	\$ _____
<u>SECTION 07 46 19 - METAL SIDING</u>		
161	Prefinished metal siding system.....	\$ _____
<u>SECTION 07 52 00 - MODIFIED BITUMINOUS ROOFING</u>		
162	Modified bituminous roofing system.....	\$ _____
163	Roof penetration patching and restorations.....	\$ _____
164	Rubber roof walkway mats including precast concrete pads.....	\$ _____
165	Roof scuppers.....	\$ _____
<u>SECTION 07 62 00 - FLASHING AND SHEET METAL</u>		
166	Prefinished metal cap flashing, counter flashings, including tie-ins.....	\$ _____
167	Flashing around roof openings and curbs to mechanical roof top units.....	\$ _____
168	Miscellaneous flashing and sheet metal work.....	\$ _____
<u>SECTION 07 81 23 - INTUMESCENT FIREPROOFING</u>		
169	Intumescent fireproofing.....	\$ _____
170	Fibrous type spray fireproofing.....	\$ _____
<u>SECTION 07 84 00 - FIRESTOPPING AND SMOKE SEALS</u>		
171	Firestopping and smoke seals.....	\$ _____
<u>SECTION 07 92 00 - SEALANTS</u>		
172	Sealants and caulking.....	\$ _____

BILL NO. 2
SITework (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
SECTION 08 11 00 - METAL DOORS AND FRAMES		
<u>SECTION 08 71 00 - FINISH HARDWARE</u>		
173	Hollow metal doors, frames and hardware including installation.....	\$ _____
<u>SECTION 08 38 13 - SECTIONAL OVERHEAD DOORS</u>		
174	Automatic insulated overhead sectional doors.....	\$ _____
SECTION 08 51 13 - ALUMINIUM WINDOWS		
<u>SECTION 08 81 00 - GLAZING</u>		
175	Aluminum windows.....	\$ _____
176	Aluminum framed windows at "clearstory".....	\$ _____
<u>SECTION 09 29 00 - GYPSUM AND CEMENT BOARD</u>		
177	Fibreglass reinforced gypsum wall board / furring system - complete.....	\$ _____
<u>SECTION 09 91 00 - PAINTING</u>		
178	Epoxy paint finish to block walls / precast panels.....	\$ _____
179	Paint finish to the exposed roof structure including columns, beams, bracings, and other structural framing members.....	\$ _____
180	Paint finish to exterior snow shelf structure.....	\$ _____
181	Painting to doors and frames, railings, and all miscellaneous metal items.....	\$ _____
182	Removal of dust, abrasive blast clean and painting of existing reinstalled steel stair.....	\$ _____
183	Concrete floor sealer.....	\$ _____
184	Painting of exposed mechanical / electrical equipment / supports including ducts, piping, hangers and conduits.....	\$ _____
185	Miscellaneous painting including yellow safety line painting, walkways, etc.....	\$ _____
<u>SECTION 10 14 27 - FLEX FACE SIGNAGE</u>		
186	Flex face signage.....	\$ _____
<u>SECTION 10 44 16 - PORTABLE FIRE EXTINGUISHERS</u>		
187	Portable fire extinguishers.....	\$ _____

BILL NO. 2
SITework (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 10 91 00 - MISCELLANEOUS SPECIALTIES</u>		
188	Concrete stair nosing / safety treads.....	\$ _____
189	Ballasted free standing roof guard rails complete with wire mesh.....	\$ _____
190	Anchored roof guard rails complete with wire mesh.....	\$ _____
191	Modification to existing guard rails.....	\$ _____
192	Stainless steel access hatches including ladders / sump pit - oil interceptor hatches.....	\$ _____
193	Window operator gear box system.....	\$ _____
194	Industrial metal storage racking and shelving.....	\$ _____
195	Expansion joint assembly system.....	\$ _____
<u>SECTION 10 93 00 - MANGANESE STEEL DIAMOND CROSSINGS</u>		
196	Design, assemble, supply and deliver to the site - manganese steel diamond crossings system.....	\$ _____
<u>SECTION 31 09 10 - MONITORING PROGRAM</u>		
<u>SECTION 31 09 13 - MONITORING INSTRUMENTATION AND EQUIPMENT</u>		
197	Monitoring program including monitoring instrumentation and equipment.....	\$ _____
<u>SECTION 31 23 15 - EXCAVATION AND FILL</u>		
198	Dewatering / pumping / water removal.....	\$ _____
199	Cut and remove existing shoring piles / lagging to suit construction of new concrete walkway.....	\$ _____
200	Remove and dispose existing duct banks in phase 2 (Splice Room - "BO1" to "BO2").....	\$ _____
201	Temporary shoring / excavation support system for foundation excavation.....	\$ _____
202	Foundation insulation at exterior perimeter walls / grade beams.....	\$ _____
203	Excavation for foundation (wall footings, grade beams, pier footings, piers and columns).....	\$ _____
204	Excavation for splice rooms including pits.....	\$ _____
205	Excavation for trench drains, area drains, catch basins and electrical manholes.....	\$ _____
206	Excavation for slab-on-grade / track slab including pits.....	\$ _____
207	Disposal off-site all surplus excavated materials.....	\$ _____

BILL NO. 2
SITWORK (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
208	Backfilling and compaction for footings, walls, pits and other miscellaneous locations including supply of materials.....	\$ _____
209	Supply, place and compact granular base "A" for slab-on-grade, track slab and pits.....	\$ _____
210	Excavation, trenching and backfilling for exterior underground site services (firemain, storm and sanitary services).....	\$ _____
211	Excavation, trenching and backfilling for electrical conduits for lighting.....	\$ _____
212	Removal and disposal of caisson spoils.....	\$ _____
213	Miscellaneous excavation, shoring, trenching and backfilling, including restoration of existing finishes.....	\$ _____
<u>SECTION 31 25 07 - HEAVY DUTY SILT FENCE</u>		
214	Heavy duty silt fence.....	\$ _____
<u>SECTION 31 25 10 - INLET STYLE PERIMETER SEDIMENT CONTROL SOCK</u>		
215	Inlet style perimeter sediment control sock.....	\$ _____
<u>SECTION 31 40 00 - SHORING AND UNDERPINNING</u>		
<u>SECTION 31 50 00 - EXCAVATION SUPPORT SYSTEMS</u>		
<u>SECTION 31 66 13 - SOLDIER PILES AND LAGGING</u>		
<u>SECTION 31 66 16 - CONTIGUOUS CAISSON WALLS</u>		
216	Underpinning	\$ _____
217	Micro piles foundation support to new turn table within existing carhouse.....	\$ _____
218	Temporary shoring to manhole inside splice room.....	\$ _____
219	Temporary shoring - soldier piles and concrete caissons (adjoining existing substation - Splice Room B01 - east side).....	\$ _____
220	Temporary shoring - soldier piles and concrete caissons (Splice room "B02" - east side - adjoining track #4).....	\$ _____
221	1,162mm diameter reinforced caisson with permanent steel liner for hoist pits including concrete and reinforcing steel.....	\$ _____
222	914mm - concrete pile foundation along grid "G" including auguring, concrete and reinforcing steel.....	\$ _____

BILL NO. 2
SITWORK (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 32 12 15 - OFF-STREET PAVING</u>		
223	Asphalt paving including sub-base & base / grinding - keying.....	\$ _____
224	Concrete walkway including base.....	\$ _____
225	Concrete approach apron slab including granular base.....	\$ _____
226	Miscellaneous repairs / restorations.....	\$ _____
<u>SECTION 32 84 00 - GREEN ROOF IRRIGATION SYSTEM</u>		
227	Green roof irrigation system.....	\$ _____
<u>SECTION 32 90 07 - GREEN ROOF PLANTING</u>		
228	Green roof planting.....	\$ _____
<u>SECTION 33 12 19 - FIRE MAINS</u>		
229	Removal and disposal of buried asbestos cement fire main.....	\$ _____
230	Fire main / water main complete with bedding.....	\$ _____
231	Valve boxes.....	\$ _____
232	Cathodic protection.....	\$ _____
233	Jacking, boring and pits for fire mains complete with excavation and backfill.....	\$ _____
234	Miscellaneous removal / abandonment / grout filling / flushing / testing.....	\$ _____
<u>SECTION 33 31 00 - STORM AND SANITARY DRAINAGE</u>		
235	By-pass arrangements / pumping to existing 675mm diameter storm sewer.....	\$ _____
236	Storm and sanitary services complete with bedding.....	\$ _____
237	Weeping tiles.....	\$ _____
238	Site preparation, excavation, trenching including temporary shoring / support, coring through existing chamber, backfilling, etc., for extending the weeping tile system complete with clean-outs along existing carhouse at basement level at east side including connections.....	\$ _____
239	Removal of existing storm and sanitary systems.....	\$ _____
TOTAL BILL NO. 2 (INCLUDED IN ITEM NO. 1 IN BILL NO. 6 - PRICE SCHEDULE).....		\$ _____

BILL NO. 3
EQUIPMENT

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 11 11 19 - LUBRICATING AND SERVICE SYSTEM</u>		
240	Grease oil piping.....	\$ _____
241	Waste oil piping.....	\$ _____
242	Gear oil piping.....	\$ _____
243	Supply and install waste oil collection system.....	\$ _____
244	Demolition of existing service piping.....	\$ _____
245	Miscellaneous including testing and training.....	\$ _____
<u>SECTION 11 11 26 - POWER WASHING EQUIPMENT</u>		
246	Supply and install packaged power washing equipment.....	\$ _____
<u>SECTION 11 11 28 - VACUUM CLEANING SYSTEM</u>		
247	Vacuum cleaning system complete with piping.....	\$ _____
<u>SECTION 14 45 19 - RAILCAR HOISTS</u>		
248	Supply railcar hoists.....	\$ _____
249	Installation railcar hoists.....	\$ _____
<u>SECTION 14 71 11 - TURNTABLES</u>		
250	Supply truck turntable.....	\$ _____
251	Install truck turntable.....	\$ _____
<u>SECTION 41 22 15 - JIB CRANE</u>		
252	Supply jib crane.....	\$ _____
253	Installation of jib crane.....	\$ _____
<u>SECTION 41 22 23 - MONORAIL HOIST</u>		
254	Monorail hoist.....	\$ _____
<u>SECTION 41 24 00 - SPECIALITY MATERIAL HANDLING EQUIPMENT</u>		
255	Supply and install electric powered tow tractor with hitch.....	\$ _____

BILL NO. 3
EQUIPMENT (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
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SECTION 41 24 39 - RAIL CAR MOVER

256	Supply and install rail car mover.....	\$ _____
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TOTAL BILL NO. 3 (INCLUDED IN ITEM NO. 1 IN BILL NO. 6 - PRICE SCHEDULE).....		\$ _____
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SAMPLE
CARHOUSE EXPANSION

BILL NO. 4
MECHANICAL

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 20 05 00 - MECHANICAL GENERAL REQUIREMENTS</u>		
257	Mechanical general requirements.....	\$ _____
258	Refurbishing existing dust collector system.....	\$ _____
259	Miscellaneous, demolitions, removals, etc.....	\$ _____
<u>SECTION 20 05 17 - PIPE WELDING</u>		
<u>SECTION 20 05 21 - PRESSURE GAUGES AND THERMOMETERS</u>		
<u>SECTION 20 05 23 - VALVES</u>		
260	Pipe welding, thermometers, and valves.....	\$ _____
<u>SECTION 20 05 24 - VALVES - PRESSURE PIPING</u>		
<u>SECTION 20 11 12 - PRESSURE PIPING</u>		
<u>SECTION 22 15 00 - COMPRESSED AIR SYSTEM</u>		
261	Supply and install compressed air system - complete.....	\$ _____
<u>SECTION 20 05 29 - HANGERS AND SUPPORTS</u>		
262	Hangers and supports.....	\$ _____
<u>SECTION 20 05 48 - MECHANICAL VIBRATION CONTROL</u>		
263	Mechanical vibration control.....	\$ _____
<u>SECTION 20 05 53 - MECHANICAL IDENTIFICATION</u>		
264	Mechanical identification.....	\$ _____
<u>SECTION 21 12 00 - WET STANDPIPES AND HOSES</u>		
<u>SECTION 21 13 00 - DRY PIPE SPRINKLERS</u>		
265	Supply and install sprinkler system.....	\$ _____
266	Supply and install fire hose cabinets.....	\$ _____
267	Miscellaneous including test valves, etc.....	\$ _____
<u>SECTION 22 07 19 - THERMAL INSULATION FOR PIPING</u>		
268	Thermal insulation for piping.....	\$ _____

BILL NO. 4
MECHANICAL (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 22 11 16 - DOMESTIC WATER PIPING - COPPER</u>		
269	Supply and install domestic water piping.....	\$ _____
270	Non-potable water piping.....	\$ _____
271	Trap seal priming piping.....	\$ _____
<u>SECTION 22 13 16 - SANITARY WASTE AND VENT PIPING</u>		
272	Supply and install below ground sanitary waste piping complete with excavating and backfill.....	\$ _____
273	Supply and install above ground sanitary waste and vent piping.....	\$ _____
<u>SECTION 22 13 33 - DRAINAGE PUMPS</u>		
274	Supply and install sanitary pumps.....	\$ _____
275	Supply and install storm pumps.....	\$ _____
<u>SECTION 22 14 13 - STORM DRAINAGE PIPING</u>		
276	Storm drainage piping below ground complete with excavating and backfill.....	\$ _____
277	Storm drainage piping above ground.....	\$ _____
278	Supply and install trench drains complete with excavating and backfill.....	\$ _____
<u>SECTION 22 42 00 - PLUMBING FIXTURES AND SPECIALTIES</u>		
279	Supply and install oil interceptors.....	\$ _____
280	Supply and install eye wash stations.....	\$ _____
281	Supply and install trap priming devices.....	\$ _____
282	Supply and install back flow preventers.....	\$ _____
283	Supply and install roof drains.....	\$ _____
284	Miscellaneous plumbing fixtures and specialties.....	\$ _____
<u>SECTION 23 05 16 - FLEXIBLE CONNECTIONS AND JOINTS</u>		
285	Flexible connections and joints.....	\$ _____
<u>SECTION 23 05 93 - TESTING, ADJUSTING AND BALANCING (TAB) OF MECHANICAL SYSTEMS</u>		

286 Testing, adjusting and balancing (TAB) of mechanical systems..... \$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 4
MECHANICAL (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 23 07 13 - THERMAL INSULATION FOR DUCTWORK</u>		
287	Thermal insulation for ductwork.....	\$ _____
<u>SECTION 23 09 33 - CONTROLS</u>		
<u>SECTION 25 50 00 - BUILDING AUTOMATION AND CONTROL</u>		
<u>SECTION 25 90 00 - BUILDING AUTOMATION CONTROL SYSTEM (BACS) SEQUENCE OF OPERATIONS</u>		
288	Controls for new door heaters.....	\$ _____
289	Controls for existing relocated door heaters.....	\$ _____
290	Controls for make up air units.....	\$ _____
291	Controls for heating units.....	\$ _____
292	Controls for unit heaters.....	\$ _____
293	Existing monitoring gas metre to connects to BACS.....	\$ _____
294	Miscellaneous, testing, commissioning.....	\$ _____
<u>SECTION 23 11 23 - PIPING, VALVES AND FITTINGS (GAS)</u>		
295	Supply and install piping, valves and fittings (gas).....	\$ _____
296	Remove / relocate existing gas piping.....	\$ _____
297	Gas pipe support on the roof.....	\$ _____
298	Relocate existing gas metre.....	\$ _____
299	Equipment hook-ups.....	\$ _____
300	Miscellaneous, testing.....	\$ _____
<u>SECTION 23 31 15 - DUCTS - HIGH PRESSURE</u>		
<u>SECTION 23 33 00 - DUCT ACCESSORIES</u>		
301	Remove / dispose existing ductwork complete with blow down system.....	\$ _____
302	Supply and install ductwork.....	\$ _____
303	Ductwork accessories.....	\$ _____

BILL NO. 4
MECHANICAL (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 23 33 13 - DAMPERS</u>		
304	Supply and install motorized dampers with actuators.....	\$ _____
<u>SECTION 23 37 13 - GRILLES, REGISTERS AND DIFFUSERS</u>		
305	Grilles, registers and diffusers.....	\$ _____
<u>SECTION 23 41 13 - AIR FILTERS AND FILTER GAUGES</u>		
306	Air filters and filter gauges.....	\$ _____
<u>SECTION 23 75 23 - INDIRECT GAS FIRED MAKE-UP AIR AND HEATING UNITS</u>		
307	Supply make-up air units.....	\$ _____
308	Install make-up air units.....	\$ _____
309	Supply door heaters.....	\$ _____
310	Install door heaters.....	\$ _____
311	Spare parts.....	\$ _____
312	Miscellaneous, testing, commissioning.....	\$ _____
<u>SECTION 23 82 40 - ELECTRIC HEATERS</u>		
313	Supply and install electric heaters.....	\$ _____
<u>SECTION 28 34 00 - TANK MONITORING AND ACCESSORIES</u>		
314	Supply and install Veeder-Root Tank Monitoring System.....	\$ _____
TOTAL BILL NO. 4 (INCLUDED IN ITEM NO. 1 IN BILL NO. 6 - PRICE SCHEDULE).....		\$ _____

BILL NO. 5
ELECTRICAL

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 26 05 00 - ELECTRICAL GENERAL REQUIREMENTS</u>		
315	Electrical permit.....	\$ _____
316	Disconnect, remove and relocate all AC power, lighting, wiring devices, conduit and wiring inside the building.....	\$ _____
317	Disconnect, remove and relocate all communication devices, conduit and wiring inside the building.....	\$ _____
318	Disconnect and remove existing DC pendent/bugging system, feeders and related devices (electrical part only).....	\$ _____
319	Disconnect and remove all existing cables and conduits to existing devices located outside the building (switch stand, blue lights, etc).....	\$ _____
320	All other miscellaneous expenses, rentals, etc.....	\$ _____
SECTION 26 05 20 - WIRE AND BOX CONNECTORS - 0-1000 V		
SECTION 26 05 21 - WIRES AND CABLES 0-1000 V		
SECTION 26 05 25 - DC CONDUCTORS AND CABLES		
SECTION 26 05 34 - CONDUITS / DUCTS		
<u>SECTION 26 05 37 - WIREWAYS AND AUXILIARY GUTTERS</u>		
321	Conduit for all new duct banks and new wiring inside new and existing duct / cable trench (excluding concrete, rebar, excavation, back fill).....	\$ _____
322	All conduit and wiring for lighting fixtures, AC power feeders and wiring to devices.....	\$ _____
323	Conduit and cables for all DC feeders/pendant system.....	\$ _____
324	Fibreglass cable tray system and fence for DC power feeders.....	\$ _____
325	Conduit wires and cables for signal system.....	\$ _____
326	Wiring and conduit for public address system.....	\$ _____
327	Wiring and conduit for intercom system.....	\$ _____
328	Wiring and conduit for fire alarm system.....	\$ _____
329	Conduit and wiring for all other systems - EOIS, PDS, signals, EAS, telephone, etc. (inside and outside the building).....	\$ _____
<u>SECTION 26 05 26 - GROUNDING AND BONDING</u>		
330	Grounding and bonding for DC power system.....	\$ _____
331	Grounding and bonding for AC power system and others.....	\$ _____

BILL NO. 5
 ELECTRICAL (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
<u>SECTION 26 05 29 - HANGERS AND SUPPORTS</u>		
332	Hangers and supports.....	\$ _____
<u>SECTION 26 05 31 - SPLITTERS, JUNCTION BOXES, PULLBOXES AND CABINETS</u>		
333	Splitters, junction boxes, pullboxes and cabinets.....	\$ _____
<u>SECTION 26 05 36 - CABLE TROUGHS</u>		
334	Cable troughs.....	\$ _____
<u>SECTION 26 05 53 - ELECTRICAL IDENTIFICATION</u>		
335	Electrical identification.....	\$ _____
<u>SECTION 26 08 00 - ELECTRICAL TESTING</u>		
336	Electrical testing.....	\$ _____
<u>SECTION 26 09 24 - CONTROL DEVICES</u>		
<u>SECTION 26 27 26 - WIRING DEVICES</u>		
<u>SECTION 26 29 03 - CONTACTORS AND RELAYS</u>		
337	Control devices, wiring devices, contactors and relays.....	\$ _____
<u>SECTION 26 12 16 - DRY TYPE TRANSFORMER</u>		
338	Dry type transformer.....	\$ _____
<u>SECTION 26 15 00 - TRACTION POWER SWITCHSTAND / DC DISTRIBUTION CENTRE</u>		
339	DC switchboard.....	\$ _____
340	New DC breakers, DC disconnect switches and other DC equipment. Including interlocking for DC system.....	\$ _____
<u>SECTION 26 16 00 - TRACTION POWER PENDANT SUPPLY SYSTEM</u>		
341	Supply of traction power bugging/pendant system.....	\$ _____
342	Installation of traction power bugging/pendant system (excludes structural steel work).....	\$ _____
<u>SECTION 26 24 13 - TRANSIENT VOLTAGE SURGE SUPPRESSION</u>		
343	Transient voltage surge suppression.....	\$ _____

BILL NO. 5
ELECTRICAL (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
SECTION 26 24 16 - PANELBOARD		
SECTION 26 28 21 - MOULDED CASE CIRCUIT BREAKERS		
344	Replace existing panel board and new panel boards including breakers.....	\$ _____
SECTION 26 28 23 - FUSED AND UNFUSED DISCONNECT SWITCHES		
345	Fused and unfused disconnect switches for AC system.....	\$ _____
SECTION 26 29 10 - MOTOR STARTERS		
346	Motor starters.....	\$ _____
SECTION 26 42 13 - UNDERGROUND PIPE CORROSION CONTROL		
347	Underground pipe corrosion control.....	\$ _____
SECTION 26 50 00 - LIGHTING EQUIPMENT		
SECTION 26 52 00 - EMERGENCY LIGHTING		
SECTION 26 53 00 - EXIT LIGHTS		
348	Lighting fixture type MA.....	\$ _____
349	Lighting fixture type MB.....	\$ _____
350	Lighting fixture type FA.....	\$ _____
351	Lighting fixture type FB.....	\$ _____
352	Lighting fixture type FC.....	\$ _____
353	Lighting fixture type FD.....	\$ _____
354	Blue lights, exit lights, battery units and remote heads.....	\$ _____
355	Supply and install poles and installation of lighting fixtures supplied by the TTC.....	\$ _____
SECTION 27 05 53 - COMMUNICATIONS ELECTRICAL IDENTIFICATION		
356	Communications electrical identification.....	\$ _____
SECTION 27 51 16 - PUBLIC ADDRESS SYSTEM		
357	Modification/upgrade of existing public address system including new devices/equipment.....	\$ _____
SECTION 27 51 23 - INTERCOM SYSTEM		
358	Modification/upgrade of existing intercom system including new devices/equipment.....	\$ _____

BILL NO. 5
ELECTRICAL (CONTINUED)

<u>Item No.</u>	<u>Description</u>	<u>Lump Sum Prices</u> <u>Excluding HST</u>
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SECTION 28 31 00 - FIRE ALARM SYSTEMS

359	Modification/upgrade of existing fire alarm system including new devices/equipment.....	\$ _____
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TOTAL BILL NO. 5 (INCLUDED IN ITEM NO. 1 IN BILL NO.6 - PRICE SCHEDULE)..... \$ _____

TOTAL FOR BILL NO. 1, 2, 3, 4 AND 5
(CARRIED TO ITEM NO. 1 IN BILL NO. 6 - PRICE SCHEDULE)..... \$ _____

SAMPLE
CARHOUSE EXPANSION

BILL NO. 6
PRICE SCHEDULE (BID FORM - SECTION 00 41 00)

Item No.	Description	Unit	Est. Qty.	Price
1	All Work of this Contract (Bill No. 1 to Bill No. 5)	Lump Sum	n/a	\$
Sub-Total				\$
13% HST				\$
TOTAL BID PRICE:				
In Canadian funds, which includes all applicable taxes, allowances and all other costs.				\$
<i>(Note: The Commission reserves the right to correct mathematical errors, inconsistencies or ambiguities in accordance with item 10 of Section 00 21 00)</i>				

SAMPLE
 CARHOUSE EXPANSION