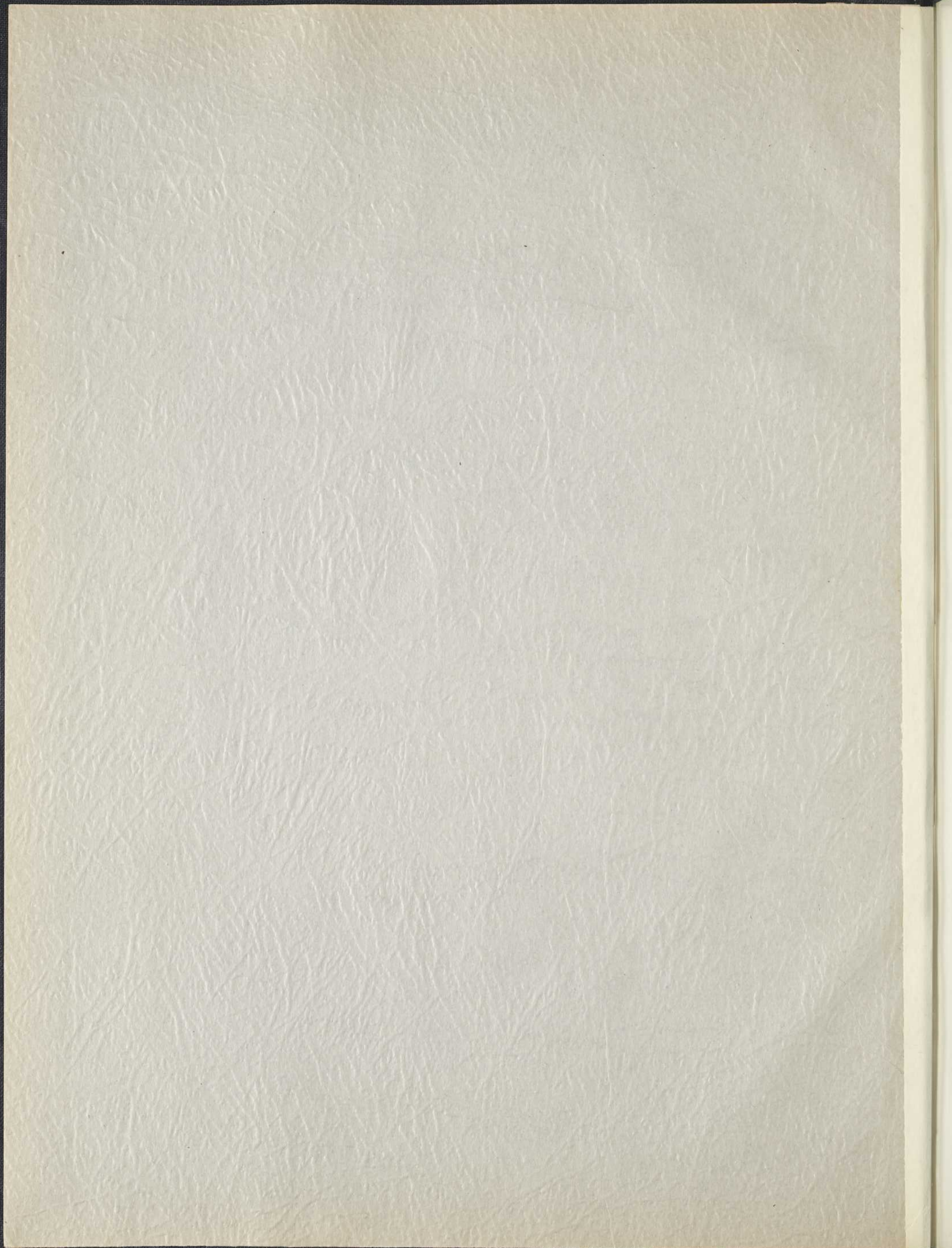


**APPENDIX B**  
**ESTIMATE OF COSTS**  
**FOR THE**  
**INITIAL SUBWAY**

**MONTREAL TRANSPORTATION COMMISSION**  
**JUNE 1953**



APPENDIX B

ESTIMATE OF COSTS FOR THE INITIAL SUBWAY

TO ACCOMPANY THE REPORT OF THE

MONTREAL TRANSPORTATION COMMISSION

FOR THE ESTABLISHMENT OF A

SYSTEM OF RAPID MASS TRANSPORTATION

JUNE 1911

COMMISSIONERS

ARTHUR BURNHAM, O.S., P. ENG., CHAIRMAN AND GENERAL MANAGER

RICHARD F. QUINN, VICE-CHAIRMAN

JACK TAPSCOTT

LEONARD LYONS, M.P.

CHARLES H. McLEOD, O.C.

*Handwritten notes on the right margin, including the number 1157.*

# APPENDIX B

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### ESTIMATE OF COSTS FOR THE INITIAL SUBWAY

TO ACCOMPANY THE REPORT OF THE  
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MONTREAL TRANSPORTATION COMMISSION

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#### COMMISSIONERS

ARTHUR DUPERRON, D.Sc., P.ENG., CHAIRMAN AND GENERAL MANAGER

RICHARD F. QUINN, VICE-CHAIRMAN

JEAN CONSTANTIN

LÉONARD LÉGER, N.P.

CHARLES-A. SYLVESTRE, Q.C.

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Total Cost of Subway and Rights-of-Way . . . . . \$ 41,000,000																	

SUMMARY OF ESTIMATE OF COST OF INITIAL SUBWAY

Part A

Carried Forward --

\$ 87,000,000

SUBWAY STRUCTURE

Cut-and-Cover Sections . . . . .	\$34,815,000
Rock Tunnel Section . . . . .	18,719,000
Earth Tunnel Section . . . . .	2,604,000
Station Finish - Underground . . . . .	1,466,000
Above Ground Stations . . . . .	511,000
Public Utilities - Maintenance and Restoration	5,876,000
Underpinning Adjacent Buildings . . . . .	3,068,000
Streetcar Track Restoration . . . . .	58,000
Paving . . . . .	290,000
Ventilation . . . . .	260,000
Escalators . . . . .	926,000
Pumps . . . . .	77,000
Subway Lighting . . . . .	784,000

Total . . . . .	\$69,454,000
Engineering and Contingencies . . . . .	13,546,000

Total Cost of Subway Structure . . . . .	\$83,000,000
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RIGHTS-OF-WAY

Estimated Cost of All Properties and Easements	\$ 6,420,000
Overhead Expenses and Ccntingencies . . . . .	1,080,000

Total . . . . .	\$ 7,500,000
Less Estimated Net Value of Air Rights . . . . .	3,500,000

Net Cost of Rights-of-Way . . . . .	\$ 4,000,000
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Total Cost of Subway and Rights-of-Way . . . . .	\$ 87,000,000
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DESCRIPTION OF ITEMS OF WORK

SUMMARY OF ESTIMATE OF COST OF INITIAL SUBWAY--Continued

Item 1-A Excavation: Common, dry excavation above the ground water includes the removal and disposition of the excavated materials, the furnishing, placing and removal of steel "H" piles and pile caps, timber lagging, shoring and bracing, pavement and sidewalk removals, barricades, protection of the work and all other incidental and collateral work which is required.

Carried Forward -- \$ 87,000,000

Part B

FIXED SUBWAY EQUIPMENT

Item 1-B Excavation: Common, wet excavation below the ground water includes the removal and disposition of the excavated materials, the furnishing, placing and removal of steel "H" piles and pile caps, timber lagging, shoring and bracing, pavement and sidewalk removals, barricades, protection of the work and all other incidental and collateral work which is required.

Youville Service and Repair Shops . . . . .	\$ 1,652,000
Shop Equipment . . . . .	63,000
Subway Station Equipment . . . . .	108,000
Subway Tracks . . . . .	2,576,000
Third Rail . . . . .	1,550,000
Substations, Power Transmission, and Appurtenances	4,515,000
Signals and Interlocking . . . . .	2,405,000

Total . . . . .	\$12,869,000
Engineering and Contingencies . . . . .	2,131,000

Total Cost of Fixed Transit Equipment \$15,000,000

SUBWAY CARS

Item 1-D Excavation: Rock excavation in cut and cover type of construction includes the removal and disposition of the excavated materials, the furnishing, placing and removal of steel "H" piles and pile caps, timber lagging, shoring and bracing, pavement and sidewalk removals, barricades, protection of the work and all other incidental and collateral work which is required.

160 Cars at \$82,000 . . . . .	\$13,120,000
Engineering and Contingencies . . . . .	1,880,000

Total Cost of Subway Cars \$15,000,000

Total Cost of Equipment \$ 30,000,000

Grand Total \$117,000,000

Item 1-E Excavation: Common excavation in tunnel type of construction includes the removal and disposition of the excavated materials, the furnishing, placing and removal of steel "H" piles and pile caps, timber lagging, shoring and bracing, pavement and sidewalk removals, barricades, protection of the work and all other incidental and collateral work which is required.

Item 2 Decking: For cut & cover type of construction includes furnishing, placing, maintenance and removal of steel deck beams or trusses, knee braces, rail stringers and 12" x 12" timber deck to carry street traffic during construction period.

DESCRIPTION OF ITEMS OF WORK

- Item 1-A Excavation: Common, dry excavation above the ground water table, in cut and cover type of construction includes the removal and disposition of the excavated materials, the furnishing, placing and removal of steel "H" piles and pile caps, timber lagging, shoring and bracing, dewatering, pavement and sidewalk removals, barricades, protection of the work and all incidental and collateral work which is required.
- Item 1-B Excavation: Common, wet excavation below the ground water table, in cut and cover type of construction includes the removal and disposition of the excavated materials, the furnishing, placing and removal of steel "H" piles and pile caps, timber lagging, shoring and bracing, dewatering, pavement and sidewalk removals, barricades, protection of the work and all incidental and collateral work which is required.
- Item 1-C Excavation: Common, wet excavation below the ground water table requiring the use of special dewatering installations, in cut and cover type of construction includes the removal and disposition of the excavated materials, the furnishing, placing and removal of steel "H" piles and pile caps, timber lagging, shoring and bracing, pavement and sidewalk removals, barricades, protection of the work and all incidental and collateral work which is required.
- Item 1-D Excavation: Rock excavation in cut and cover type of construction includes the removal and disposition of all of the excavated materials, dewatering, sheathing and shoring, barricades, protection of the work and all incidental and collateral work which is required.
- Item 1-E Excavation: Common excavation in tunnel type of construction includes the removal and disposition of the excavated materials, the furnishing and placing of the required liner plates, sheathing and shoring, dewatering, lagging, protection of the work and all incidental and collateral work which is required.
- Item 1-F Excavation: Rock excavation in tunnel type of construction includes the removal and disposition of the materials, sheathing and shoring, dewatering, any required supports, protection of the work, and all other incidental and collateral work which is required.
- Item 2 Decking: For cut & cover type of construction includes furnishing, placing, maintenance and removal of steel deck beams or trusses, knee braces, rail stringers and 12" x 12" timber deck to carry street traffic during construction period.

DESCRIPTION OF ITEMS OF WORK--Continued

- Item 3-A Concrete: (2,000 p. s. i. test) for cut & cover type of construction includes the furnishing, placing, finishing, curing and protection of a 6" slab placed below the invert slab of the structure for the purpose of protecting the subgrade and providing a surface for the membrane waterproofing.
- Item 3-B Concrete: (3,000 p. s. i. test) for cut & cover type of construction includes furnishing, placing, finishing, curing, protection, and all necessary forming for the subway structure. (Station platform concrete, the 6" slab under the invert and the 3" protective coating over the roof membrane waterproofing are covered under separate items).
- Item 3-C Concrete: (3,000 p. s. i. test) for subway structure in earth tunnel portions of the project includes furnishing, placing, finishing, curing, protection, and all necessary forming.
- Item 3-D Concrete: (3,000 p. s. i. test) for structure in rock tunnel portions of the project includes furnishing, placing, finishing, curing, protection, and all necessary forming except station platforms which are covered under a separate item.
- Item 3-E Concrete: (2,000 p. s. i. test) for cut and cover type of construction includes furnishing, placing, finishing, curing, protection, and all necessary forming for a concrete protective cover over all horizontal membrane waterproofed surfaces.
- Item 3-F Concrete: (3,000 p. s. i. test) for station platforms includes furnishing, placing, finishing, curing, protection, and all necessary forming for station platforms, service platforms, and pit walls in the maintenance and repair buildings.
- Item 4-A Reinforcing steel: for cut and cover type of construction includes furnishing, bending and placing of all reinforcing steel rods and wire mesh.
- Item 4-B Reinforcing steel: for tunnel type of construction; includes furnishing, bending and placing of all reinforcing steel rods and wire mesh.
- Item 5 Structural steel: includes furnishing, fabrication, erection and field painting of all permanent structural steel under all types of construction.
- Item 6-A Membrane Waterproofing: for cut and cover type of construction includes furnishing and placing of two (2) ply of 15# impregnated rag felt and one (1) ply of saturated cotton fabric to all horizontal surfaces. Each ply being mopped in place with hot asphalt.
- Item 6-B Membrane Waterproofing: for cut and cover type of construction includes furnishing and placing of two (2) ply of 15# impregnated felt and one (1) ply of saturated cotton fabric to all vertical surfaces. Each ply being mopped in place with hot asphalt.

DESCRIPTION OF ITEMS OF WORK--Continued

- Item 7 Backfill: well graded sand for cut and cover type of construction includes furnishing, placing, flooding and compaction to 95% Procter density at the sides and over the top of the structure, up to the street or sidewalk level after the structure has been completed.
- Item 8 Subway Underdrain: This is the average price for furnishing and placing an 8" cast iron longitudinal drainage system under all types of subway structure together with all fittings, manholes, catch basins, frames and covers, as well as smaller diameter drain lines from ventilation and fan shafts, floor drains and all incidental and collateral work which is required.
- Item 9 Treatment of Expansion Joints: for all types of construction includes the application of pitch to the expansion joints, and the furnishing and placing of 12"-20 ounce cold rolled copper seal strip in all expansion joints and in all construction joints in exterior walls of cut and cover sections. (unit price is by lineal foot of subway)
- Item 10 Sound Dampening: for all types of construction includes furnishing and placing of 2" thick fiber glass batts along one side of each tube of the subway structure. Said batt of fiber glass shall be encased in 2" x 2" wood frame and held in place by aluminium wire lath.
- Item 11 Miscellaneous Steel: for all types of construction includes furnishing, placing, galvanizing and field painting of all items of miscellaneous steel such as: shaft gratings, frames, ladders, angle iron platform nosing, steel stairs, and all incidental and collateral work which is required.
- Item 12-A Pavement: includes the construction of temporary pavement consisting of a 12" gravel base together with  $1\frac{1}{2}$ " of asphaltic binder and  $1\frac{1}{2}$ " wearing surface and, at a later time, the construction of a permanent pavement consisting of 8" concrete base with  $1\frac{1}{2}$ " asphaltic binder,  $1\frac{1}{2}$ " asphaltic wearing surface after compaction of backfill, and all incidental and collateral work which is required.
- Item 12-B Pavement: includes the construction of new pavement for driveways and parking areas, consisting of a 10" crushed stone base with  $1\frac{1}{2}$ " asphaltic binder  $1\frac{1}{2}$ " asphaltic wearing surface, and all incidental and collateral work which is required.
- Item 13-A Sidewalk: includes the construction of temporary sidewalks consisting of a 6" gravel base together with  $1\frac{1}{2}$ " asphaltic wearing surface and, at a later time, the construction of a permanent sidewalk consisting of a 12" crushed stone base, 6" concrete slab over compacted backfill and all incidental and collateral work which is required.

DESCRIPTION OF ITEMS OF WORK--Continued

- Item 13-B Sidewalk: includes the construction of a new concrete sidewalk consisting of a 6" crushed stone base with 6" concrete slab and all incidental and collateral work which is required.
- Item 14-A Curb: includes the construction of a temporary wooden curb during construction operations and later the permanent replacement of curb damaged during construction operations with concrete curb meeting the standards of the City of Montreal.
- Item 14-B Curb and Gutter: this item covers furnishing and placing of a monolithic concrete curb and gutter along driveways and parking areas and all incidental and collateral work which is required.
- Item 15 Landscaping & Monuments: includes the replacement of trees and shrubs, the application of sod, and/or the grading and seeding of various properties which may have been damaged during construction operations; and the removal and relocation of various monuments or statues in, or adjacent to, the route of the subway which would interfere with subway construction, and all incidental and collateral work which is required.
- Item 16 Terrazzo Floor: includes furnishing, placing, finishing, curing, protection, metal separation strips and all collateral work required to place a 1" mortar bed and 1/2" terrazzo floor finish.
- Item 17 Terrazzo Base: includes furnishing, placing, finishing, curing, protection, and all necessary forming for the placement of a terrazzo base to support the glass faced masonry, except at stairways.
- Item 18 Terrazzo Stair Finish: includes furnishing, placing, curing, protection, and all necessary forming for the terrazzo floor finish on stairs and landings.
- Item 19 Terrazzo Base at Stairways: includes furnishing, placing, curing, protection, and all necessary forming for the terrazzo base to support glass faced masonry in stairways.
- Item 20 Cement Floor-Plain: includes furnishing, placing, finishing, curing, protection, and all necessary forming of a 1 1/2" thick finished cement floor.
- Item 21 Cement Base-Plain: includes furnishing, placing, finishing, curing, and protection of the concrete base at walls which do not receive glass-faced masonry.
- Item 22 Mastic Floor: includes the furnishing and application of 1/8" of pre-moulded mastic floor in the battery rooms, and all incidental and collateral work which is required.

DESCRIPTION OF ITEMS OF WORK--Continued

- Item 23 Mastic Base: includes furnishing and application of 1/8" of pre-moulded mastic base in battery rooms.
- Item 24-A Station Wall Finish: includes the fabrication, furnishing, placing and protection of 2" glass faced masonry blocks which are made up of 1/4" plate glass securely anchored to 1-3/4" light-weight concrete backing. It also includes the furnishing and placing of the necessary wall anchors, trim, and appurtenances.
- Item 24-B Station Wall Finish: includes the fabrication, furnishing, placing and protection of a self supporting 4" glass faced masonry block wall which is made up of 1/4" plate glass securely anchored to 3-3/4" light-weight concrete backing. It also includes the furnishing and placing of all necessary anchors, trim, and appurtenances.
- Item 25 Hollow Tile: includes the furnishing and placing of 4" x 6" x 12", hollow tile for the construction of partition walls. It also includes the necessary mortar and all incidental and collateral work which is required.
- Item 26 Terra Cotta: includes the furnishing and erection of 4" terra cotta partition walls, including the necessary mortar, and all other incidental and collateral work which is required.
- Item 27 Non-Slip Nosing Tile: includes the furnishing and placing of 1/2" x 6" non-slip alundum nosing tile at all stair treads and a 16" wide band along the outer edges of the subway platforms, and all incidental and collateral work which is required.
- Item 28 Painting of Concrete: under all types of construction; includes the furnishing and application of 2 coats of special paint to exposed concrete surfaces, such as, the underside of the roof slab at stations, the ceilings of mezzanines, passageways and stairways and the ceilings and walls of certain service rooms.
- Item 29-A Handrail: includes the fabrication, furnishing and placing of aluminum ornamental pipe railing to divide stairways.
- Item 29-B Handrail: includes the fabrication, furnishing and placing of tubular aluminum handrail on each wall of stairways.
- Item 30-A Ornamental Railing: includes the fabrication, furnishing and placing of ornamental railing around stair openings at street level.
- Item 30-B Ornamental Railing: includes the furnishing, fabrication and erection of ornamental railing between the side walls of the mezzanine or payment area and the cashier's booth.

DESCRIPTION OF ITEMS OF WORK--Continued

- Item 31 Pipe Railing: includes the fabrication, furnishing and erection of 1-3/4" pipe railing at stairs connecting platforms and emergency walkways.
- Item 32-A Gate: includes the fabrication, furnishing and erection of a pantograph type gate in certain passageways.
- Item 32-B Gate: includes the fabrication, furnishing and erection of 1-3/4" welded pipe gates at the ends of station platforms.
- Item 33 Doors: includes the furnishing and hanging of the 2'6" x 7'0" metal clad doors (interior) with hardware, frame, and all incidentals.
- Item 34 Toilet Partitions: includes the fabrication, furnishing and placing of pre-fabricated partitions in toilets. Field and shop painting is included.
- Item 34 Slop Sink: includes the furnishing and installing of slop sink in cleaner's rooms. All connections to the sewer system, and incidental and collateral work which is required, is included.
- Item 36 Wash Basins: includes the furnishing and placing of wash basins in employee's toilets. All connections to the sewer system, and incidental and collateral work which is required, is included.
- Item 37 Water Closets: includes the furnishing and placing of water-closets in employee's toilets. All connections to the sewer system, and incidental and collateral work which is required, is included.
- Item 38 Urinals: includes the furnishing and placing of urinals in employee's toilets. All connections to the sewer system, and incidental and collateral work which is required, is included.
- Item 39 Cashier Booths: includes furnishing and installation of the 5' x 9' stainless steel, glass enclosed cashier's booths complete with doors, counters, ceilings, and all incidental and collateral work which is required.
- Item 40 Granite Base: includes the furnishing and placing of the 8" x 14" "Honed Finish" granite curb around sidewalk entrances.

DETAILED ESTIMATE

SUBWAY STRUCTURE

1. - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)

Between West End and Abwater Station  
Chainage Station 82 / 60 to 96 / 44

**DETAILED ESTIMATE**

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Total</u>
1A	Excavation	100,070	cu. yd.	\$10.30	\$1,030,710
2	Decking	73,585	sq. ft.	4.00	294,340
3A	Concrete	1,385	cu. yd.	30.00	41,550
3B	Concrete	18,330	cu. yd.	37.00	678,210
3C	Concrete	600	cu. yd.	30.00	18,000
4A	Reinforcing Steel	1,430	ton	240.00	343,200
5	Structural Steel	115	ton	275.00	31,575
6A	Membrane Waterproofing	18,800	sq. yd.	5.00	94,000
6B	Membrane Waterproofing	6,920	sq. yd.	4.15	28,718
7	Backfill	45,840	cu. yd.	5.00	229,200
8	Subway Underdrain	1,304	lin. ft.	7.50	9,780
9	Treatment of Expansion Joints	1,304	lin. ft.	3.85	5,020
11	Miscellaneous Steel	5,000	lb.	0.60	3,000
12A	Pavement	1,875	sq. yd.	10.00	18,750
13A	Sidewalk		sq. yd.	7.20	5,040
14A	Curb		ft.	5.00	1,700
15	Landscaping & Monuments		S.S.		6,100
	<u>Total</u>				<u>\$2,505,870</u>

**SUBWAY STRUCTURE**

Abwater Station  
Chainage Station 96 / 44 to 101 / 44

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Total</u>
1A	Excavation	47,805	cu. yd.	\$10.30	\$492,392
1B	Excavation	10,530	cu. yd.	12.50	131,625
2	Decking	47,115	sq. ft.	4.00	188,460
3A	Concrete	910	cu. yd.	30.00	27,300
3B	Concrete	14,543	cu. yd.	37.00	538,291
3C	Concrete	435	cu. yd.	30.00	13,050
3D	Concrete	285	cu. yd.	45.00	12,825
4A	Reinforcing Steel	1,750	ton	240.00	418,200
5	Structural Steel	202	ton	275.00	55,550
6A	Membrane Waterproofing	10,265	sq. yd.	5.00	51,325
6B	Membrane Waterproofing	2,990	sq. yd.	4.15	12,409
7	Backfill	20,640	cu. yd.	5.00	103,200
8	Subway Underdrain	500	lin. ft.	7.50	3,750
9	Treatment of Expansion Joints	500	lin. ft.	3.85	1,925
10	Sound Dampening	6,750	sq. ft.	1.15	7,763
11	Miscellaneous Steel	23,940	lb.	0.60	14,364
12A	Pavement	3,480	sq. yd.	10.00	34,800
13A	Sidewalk	1,340	sq. yd.	7.20	9,648
14A	Curb	990	lin. ft.	5.00	4,950
	<u>Total</u>				<u>\$2,195,040</u>

DETAILED ESTIMATE

SUBWAY STRUCTURE

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)

Between West End and Atwater Station  
Chainage Station 82 / 60 to 96 / 44

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	100,070	cu.yd.	\$10.50	\$1,050,735
2	Decking	23,585	sq.ft.	4.00	94,340
3A	Concrete	1,385	cu.yd.	30.00	41,550
3B	Concrete	18,335	cu.yd.	37.00	678,395
3E	Concrete	680	cu.yd.	30.00	20,400
4A	Reinforcing Steel	1,430	ton	240.00	343,200
5	Structural Steel	115	ton	275.00	31,625
6A	Membrane Waterproofing	16,650	sq.yd.	3.00	49,950
6B	Membrane Waterproofing	6,925	sq.yd.	4.15	28,740
7	Backfill	43,545	cu.yd.	5.00	217,725
8	Subway Underdrain	1,384	lin.ft.	7.60	10,520
9	Treatment of Expansion Joints	1,384	lin.ft.	3.85	5,330
11	Miscellaneous Steel	5,000	lb.	0.50	2,500
12A	Pavement	1,675	sq.yd.	10.00	16,750
13A	Sidewalk	700	sq.yd.	7.20	5,040
14A	Curb	650	lin.ft.	3.00	1,950
15	Landscaping & Monuments		L.S.		8,120
	Total				\$2,606,870

Atwater Station  
Chainage Station 96 / 44 to 101 / 44

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	47,205	cu.yd.	\$10.50	\$ 495,653
1B	Excavation	10,530	cu.yd.	12.50	131,625
2	Decking	47,115	sq.ft.	4.00	188,460
3A	Concrete	910	cu.yd.	30.00	27,300
3B	Concrete	14,645	cu.yd.	37.00	541,865
3E	Concrete	455	cu.yd.	30.00	13,650
3F	Concrete	285	cu.yd.	45.00	12,825
4A	Reinforcing Steel	1,730	ton	240.00	415,200
5	Structural Steel	202	ton	275.00	55,550
6A	Membrane Waterproofing	10,865	sq.yd.	3.00	32,595
6B	Membrane Waterproofing	2,995	sq.yd.	4.15	12,429
7	Backfill	20,640	cu.yd.	5.00	103,200
8	Subway Underdrain	500	lin.ft.	7.60	3,800
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	6,750	sq.ft.	1.15	7,760
11	Miscellaneous Steel	23,940	lb.	0.50	11,970
12A	Pavement	3,460	sq.yd.	10.00	34,600
13A	Sidewalk	1,340	sq.yd.	7.20	9,648
14A	Curb	995	lin.ft.	3.00	2,985
	Total				\$2,103,040

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)--Continued

Between Atwater Station and Guy Station  
Chainage Station 101 / 44 to 121 / 45

Item No.	Description	Quantity	Unit	Unit Price	Total
1A	Excavation	64,420	cu.yd.	\$10.50	\$ 676,410
1B	Excavation	11,505	cu.yd.	12.50	143,812
2	Decking	82,655	sq.ft.	4.00	330,620
3A	Concrete	1,370	cu.yd.	30.00	41,100
3B	Concrete	17,190	cu.yd.	37.00	636,030
3E	Concrete	715	cu.yd.	30.00	21,450
4A	Reinforcing Steel	970	ton	240.00	232,800
6A	Membrane Waterproofing	17,165	sq.yd.	3.00	51,495
6B	Membrane Waterproofing	8,210	sq.yd.	4.15	34,071
7	Backfill	23,340	cu.yd.	5.00	116,700
8	Subway Underdrain	2,001	lin.ft.	7.60	15,208
9	Treatment of Expansion Joints	2,001	lin.ft.	3.85	7,704
10	Sound Dampening	12,006	sq.ft.	1.15	13,807
11	Miscellaneous Steel	7,140	lb.	0.50	3,570
12A	Pavement	8,920	sq.yd.	10.00	89,200
13A	Sidewalk	265	sq.yd.	7.20	1,908
14A	Curb	405	lin.ft.	3.00	1,215
Total					\$2,417,100

Guy Station  
Chainage Station 121 / 45 to 126 / 45

Item No.	Description	Quantity	Unit	Unit Price	Total
1A	Excavation	24,630	cu.yd.	\$10.50	\$ 258,615
1B	Excavation	4,610	cu.yd.	12.50	57,625
2	Decking	32,790	sq.ft.	4.00	131,160
3A	Concrete	1,170	cu.yd.	30.00	35,100
3B	Concrete	6,340	cu.yd.	37.00	234,580
3E	Concrete	585	cu.yd.	30.00	17,550
3F	Concrete	285	cu.yd.	45.00	12,825
4A	Reinforcing Steel	482	ton	240.00	115,680
5	Structural Steel	165	ton	275.00	45,375
6A	Membrane Waterproofing	7,210	sq.yd.	3.00	21,630
6B	Membrane Waterproofing	2,865	sq.yd.	4.15	11,890
7	Backfill	7,215	cu.yd.	5.00	36,075
8	Subway Underdrain	500	lin.ft.	7.60	3,800
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	4,500	sq.ft.	1.15	5,175
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	3,620	sq.yd.	10.00	36,200
13A	Sidewalk	625	sq.yd.	7.20	4,500
14A	Curb	35	lin.ft.	3.00	105
Total					\$1,035,060

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)--Continued

Between Guy and Dominion Square Stations  
Chainage Station 126 / 45 to 147 / 35

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	43,320	cu.yd.	\$ 10.50	\$ 454,860
1B	Excavation	33,580	cu.yd.	12.50	419,750
1D	Excavation	8,230	cu.yd.	9.00	74,070
2	Decking	76,535	sq.ft.	4.00	306,140
3A	Concrete	1,400	cu.yd.	30.00	42,000
3B	Concrete	17,785	cu.yd.	37.00	658,045
3E	Concrete	720	cu.yd.	30.00	21,600
4A	Reinforcing Steel	1,066	ton	240.00	255,840
6A	Membrane Waterproofing	16,805	sq.yd.	3.00	50,415
6B	Membrane Waterproofing	9,445	sq.yd.	4.15	39,195
7	Backfill	30,885	cu.yd.	5.00	154,425
8	Subway Underdrain	2,090	lin.ft.	7.60	15,884
9	Treatment of Expansion Joints	2,090	lin.ft.	3.85	8,047
10	Sound Dampening	12,510	sq.ft.	1.15	14,387
11	Miscellaneous Steel	7,390	lb.	0.50	3,695
12A	Pavement	7,810	sq.yd.	10.00	78,100
13A	Sidewalk	510	sq.yd.	7.20	3,672
14A	Curb	540	lin.ft.	3.00	1,620
	Total				\$2,601,745

Dominion Square Station

Chainage Station 147 / 35 to 150 / 12

0 / 00 to 3 / 76 (150 / 12 = 0 / 00)

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	24,685	cu.yd.	\$10.50	\$259,192
1B	Excavation	33,540	cu.yd.	12.50	419,250
2	Decking	21,575	sq.ft.	4.00	86,300
3A	Concrete	835	cu.yd.	30.00	25,050
3B	Concrete	8,695	cu.yd.	37.00	321,715
3E	Concrete	415	cu.yd.	30.00	12,450
3F	Concrete	250	cu.yd.	45.00	11,250
4A	Reinforcing Steel	550	ton	240.00	132,000
5	Structural Steel	185	ton	275.00	50,875
6A	Membrane Waterproofing	10,020	sq.yd.	3.00	30,060
6B	Membrane Waterproofing	4,145	sq.yd.	4.15	17,202
7	Backfill	29,320	cu.yd.	5.00	146,600
8	Subway Underdrain	653	lin.ft.	7.60	4,963
9	Treatment of Expansion Joints	653	lin.ft.	3.85	2,514
10	Sound Dampening	5,418	sq.ft.	1.15	6,231
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	1,925	sq.yd.	10.00	19,250
13A	Sidewalk	650	sq.yd.	7.20	4,680
14A	Curb	590	lin.ft.	3.00	1,770
15	Landscaping & Monuments		L.S.		31,288
	Total				\$1,587,890

I - HIGH LEVEL SECTIONS(Cut and Cover Type of Construction)--Continued

Between Dominion Square and Victoria Square Stations  
Chainage 3 / 76 to 28 / 67

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	52,125	cu.yd.	\$ 10.50	\$ 547,312
1B	Excavation	24,220	cu.yd.	12.50	302,750
1C	Excavation	21,380	cu.yd.	26.50	566,570
2	Decking	68,645	sq.ft.	4.00	274,580
3A	Concrete	1,575	cu.yd.	30.00	47,250
3B	Concrete	20,285	cu.yd.	37.00	750,545
3E	Concrete	785	cu.yd.	30.00	23,550
4A	Reinforcing Steel	1,091	ton	240.00	261,840
6A	Membrane Waterproofing	18,370	sq.yd.	3.00	55,110
6B	Membrane Waterproofing	11,335	sq.yd.	4.15	47,040
7	Backfill	29,800	cu.yd.	5.00	149,000
8	Subway Underdrain	2,491	lin.ft.	7.60	18,932
9	Treatment of Expansion Joints	2,491	lin.ft.	3.85	9,590
10	Sound Dampening	14,946	sq.ft.	1.15	17,188
11	Miscellaneous Steel	8,580	lb.	0.50	4,290
12A	Pavement	5,320	sq.yd.	10.00	53,200
13A	Sidewalk	865	sq.yd.	7.20	6,228
14A	Curb	915	lin.ft.	3.00	2,745
15	Landscaping & Monuments		L.S.		16,280
	<b>Total</b>				<b>\$3,154,000</b>

Victoria Square Station  
Chainage Station 28 / 67 to 33 / 67

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	19,120	cu.yd.	\$10.50	\$ 200,760
1C	Excavation	9,765	cu.yd.	26.50	258,770
2	Decking	36,725	sq.ft.	4.00	146,900
3A	Concrete	590	cu.yd.	30.00	17,700
3B	Concrete	6,195	cu.yd.	37.00	229,215
3E	Concrete	295	cu.yd.	30.00	8,850
3F	Concrete	300	cu.yd.	45.00	13,500
4A	Reinforcing Steel	485	ton	240.00	116,400
5	Structural Steel	165	ton	275.00	45,375
6A	Membrane Waterproofing	7,000	sq.yd.	3.00	21,000
6B	Membrane Waterproofing	2,505	sq.yd.	4.15	10,395
7	Backfill	7,240	cu.yd.	5.00	36,200
8	Subway Underdrain	500	lin.ft.	7.60	3,800
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	4,500	sq.ft.	1.15	5,175
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	3,420	sq.yd.	10.00	34,200
13A	Sidewalk	375	sq.yd.	7.20	2,700
14A	Curb	755	lin.ft.	3.00	2,265
	<b>Total</b>				<b>\$1,160,380</b>

I HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)--Continued

Between Victoria Square and Place D'Armes Stations  
Chainage Station 33 / 67 to 44 / 92

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	34,250	cu.yd.	\$10.50	\$359,625
1C	Excavation	2,340	cu.yd.	26.50	62,010
2	Decking	43,695	sq.ft.	4.00	174,780
3A	Concrete	705	cu.yd.	30.00	21,150
3B	Concrete	9,080	cu.yd.	37.00	335,960
3E	Concrete	340	cu.yd.	30.00	10,200
4A	Reinforcing Steel	511	ton	240.00	122,640
6A	Membrane Waterproofing	8,285	sq.yd.	3.00	24,855
6B	Membrane Waterproofing	4,900	sq.yd.	4.15	20,335
7	Backfill	9,655	cu.yd.	5.00	48,275
8	Subway Underdrain	1,125	lin.ft.	7.60	8,550
9	Treatment of Expansion Joints	1,125	lin.ft.	3.85	4,331
10	Sound Dampening	6,750	sq.ft.	1.15	7,762
11	Miscellaneous Steel	4,760	lb.	0.50	2,380
12A	Pavement	4,750	sq.yd.	10.00	47,500
13A	Sidewalk	185	sq.yd.	7.20	1,332
14A	Curb	330	lin.ft.	3.00	990
	<b>Total</b>				<b>\$1,252,675</b>

Place D'Armes Station  
Chainage Station 44 / 92 to 49 / 92

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	36,865	cu.yd.	\$10.50	\$387,080
2	Decking	44,560	sq.ft.	4.00	178,240
3A	Concrete	785	cu.yd.	30.00	23,550
3B	Concrete	7,690	cu.yd.	37.00	284,530
3E	Concrete	395	cu.yd.	30.00	11,850
3F	Concrete	300	cu.yd.	45.00	13,500
4A	Reinforcing Steel	543	ton	240.00	130,320
5	Structural Steel	165	ton	275.00	45,375
6A	Membrane Waterproofing	4,705	sq.yd.	3.00	14,115
6B	Membrane Waterproofing	3,515	sq.yd.	4.15	14,586
7	Backfill	10,930	cu.yd.	5.00	54,650
8	Subway Underdrain	500	lin.ft.	7.60	3,800
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	4,500	sq.ft.	1.15	5,175
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	3,510	sq.yd.	10.00	35,100
13A	Sidewalk	1,345	sq.yd.	7.20	9,684
14A	Curb	1,245	lin.ft.	3.00	3,735
15	Landscaping & Monuments		L.S.		20,000
	<b>Total</b>				<b>\$1,242,465</b>

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)--Continued

Between Place D'Armes and Champ de Mars Stations  
Chainage Station 49 / 92 to 60 / 64

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	39,920	cu.yd.	\$10.50	\$419,160
2	Decking	40,360	sq.ft.	4.00	161,440
3A	Concrete	680	cu.yd.	30.00	20,400
3B	Concrete	8,810	cu.yd.	37.00	325,970
3E	Concrete	325	cu.yd.	30.00	9,750
4A	Reinforcing Steel	504	ton	240.00	120,960
6A	Membrane Waterproofing	8,000	sq.yd.	3.00	24,000
6B	Membrane Waterproofing	4,955	sq.yd.	4.15	20,563
7	Backfill	13,535	cu.yd.	5.00	67,675
8	Subway Underdrain	1,072	lin.ft.	7.60	8,147
9	Treatment of Expansion Joints	1,072	lin.ft.	3.85	4,127
10	Sound Dampening	6,432	sq.ft.	1.15	7,397
11	Miscellaneous Steel	4,760	lb.	0.50	2,380
12A	Pavement	3,475	sq.yd.	10.00	34,750
13A	Sidewalk	270	sq.yd.	7.20	1,946
14A	Curb	825	lin.ft.	3.00	2,475
	<b>Total</b>				<b>\$1,231,140</b>

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
	Champ de Mars Station				
	Chainage Station 60 / 64 to 65 / 64				
1A	Excavation	33,760	cu.yd.	\$10.50	\$354,480
3A	Concrete	600	cu.yd.	30.00	18,000
3B	Concrete	6,375	cu.yd.	37.00	235,875
3E	Concrete	300	cu.yd.	30.00	9,000
3F	Concrete	285	cu.yd.	45.00	12,825
4A	Reinforcing Steel	481	ton	240.00	115,440
5	Structural Steel	165	ton	275.00	45,375
6A	Membrane Waterproofing	7,115	sq.yd.	3.00	21,345
6B	Membrane Waterproofing	2,685	sq.yd.	4.15	11,145
7	Backfill	11,590	cu.yd.	5.00	57,950
8	Subway Underdrain	500	lin.ft.	7.60	3,800
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	4,500	sq.ft.	1.15	5,175
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	3,385	sq.yd.	10.00	33,850
	<b>Total</b>				<b>\$ 931,435</b>

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)--Continued

Between Champ de Mars and St. Catherine-DeMontigny Stations  
 Chainage Station 65 / 64 to 76 / 50,  
 73 / 50 to 86 / 22 (76 / 50 = 73 / 50)

Item No.	Description	Quantity	Unit	Unit Price	Total
1A	Excavation	21,485	cu.yd.	\$10.50	\$224,968
1B	Excavation	15,100	cu.yd.	12.50	188,750
1C	Excavation	6,965	cu.yd.	26.50	184,573
2	Decking	72,375	sq.ft.	4.00	289,500
3A	Concrete	1,460	cu.yd.	30.00	43,800
3B	Concrete	18,565	cu.yd.	37.00	686,905
3E	Concrete	730	cu.yd.	30.00	21,900
4A	Reinforcing Steel	1,037	ton	240.00	248,880
6A	Membrane Waterproofing	17,555	sq.yd.	3.00	52,665
6B	Membrane Waterproofing	9,290	sq.yd.	4.15	38,554
7	Backfill	22,100	cu.yd.	5.00	110,500
8	Subway Underdrain	2,358	lin.ft.	7.60	17,921
9	Treatment of Expansion Joints	2,358	lin.ft.	3.85	9,078
10	Sound Dampening	14,148	sq.ft.	1.15	16,270
11	Miscellaneous Steel	7,390	lb.	0.50	3,695
12A	Pavement	7,560	sq.yd.	10.00	75,600
13A	Sidewalk	415	sq.yd.	7.20	2,988
14A	Curb	530	lin.ft.	3.00	1,590
15	Landscaping & Monuments		L.S.		5,464
	<b>Total</b>				<b>\$2,607,075</b>
1B	Excavation	5,940	cu.yd.	\$12.50	\$74,250
3A	Concrete	100	cu.yd.	30.00	3,000
3B	Concrete	2,190	cu.yd.	37.00	81,030
3E	Concrete	85	cu.yd.	45.00	3,825
4A	Reinforcing Steel	208	ton	240.00	49,920
5	Structural Steel	57	ton	275.00	15,575
6A	Membrane Waterproofing	553	sq.yd.	3.00	1,659
6B	Membrane Waterproofing	763	sq.yd.	4.15	3,168
8	Subway Underdrain	197	lin.ft.	7.50	1,478
9	Treatment of Expansion Joints	197	lin.ft.	3.85	758
	<b>Subtotal</b>				<b>3,234,385</b>
	<b>Total</b>				<b>\$1,440,115</b>

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)—Continued

St. Catherine-DeMontigny Station  
Chainage Station 86 / 22 to 91 / 22

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	21,425	cu.yd.	\$ 10.50	\$ 224,962
1B	Excavation	15,100	cu.yd.	12.50	188,750
2	Decking	37,060	sq.ft.	4.00	148,240
3A	Concrete	570	cu.yd.	30.00	17,100
3B	Concrete	7,225	cu.yd.	37.00	267,325
3E	Concrete	285	cu.yd.	30.00	8,550
3F	Concrete	295	cu.yd.	45.00	13,275
4A	Reinforcing Steel	554	ton	240.00	132,960
5	Structural Steel	165	ton	275.00	45,375
6A	Membrane Waterproofing	7,440	sq.yd.	3.00	22,320
6B	Membrane Waterproofing	2,730	sq.yd.	4.15	11,330
7	Backfill	13,335	cu.yd.	5.00	66,675
8	Subway Underdrain	500	lin.ft.	7.60	3,800
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	4,500	sq.ft.	1.15	5,175
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	2,865	sq.yd.	10.00	28,650
13A	Sidewalk	1,420	sq.yd.	7.20	10,223
14A	Curb	1,235	lin.ft.	3.00	3,705
	Subtotal				\$1,205,590

St. Catherine St. Subway

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1B	Excavation	5,940	cu.yd.	\$ 12.50	\$ 74,254
3A	Concrete	100	cu.yd.	30.00	3,000
3B	Concrete	2,195	cu.yd.	37.00	81,215
3F	Concrete	65	cu.yd.	45.00	2,925
4A	Reinforcing Steel	208	ton	240.00	49,920
5	Structural Steel	57	ton	275.00	15,675
6A	Membrane Waterproofing	585	sq.yd.	3.00	1,755
6B	Membrane Waterproofing	960	sq.yd.	4.15	3,984
8	Subway Underdrain	157	lin.ft.	7.60	1,193
9	Treatment of Expansion Joints	157	lin.ft.	3.85	604
	Subtotal				\$ 234,525
	Total				\$1,440,115

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)--Continued

Between St. Catherine-DeMontigny Station and Station 104 / 50 (north of Ontario St.)

Chainage Station 91 / 22 to 104 / 50

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	25,680	cu.yd.	\$10.50	\$269,640
1B	Excavation	25,680	cu.yd.	12.50	321,000
2	Decking	51,825	sq.ft.	4.00	207,300
3A	Concrete	840	cu.yd.	30.00	25,200
3B	Concrete	10,955	cu.yd.	37.00	405,335
3E	Concrete	435	cu.yd.	30.00	13,050
4A	Reinforcing Steel	618	ton	240.00	148,320
6A	Membrane Waterproofing	10,070	sq.yd.	3.00	30,210
6B	Membrane Waterproofing	6,125	sq.yd.	4.15	25,416
7	Backfill	17,675	cu.yd.	5.00	88,375
8	Subway Underdrain	1,328	lin.ft.	7.60	10,093
9	Treatment of Expansion Joints	1,328	lin.ft.	3.85	5,113
10	Sound Dampening	7,968	sq.ft.	1.15	9,163
11	Miscellaneous Steel	4,415	lb.	0.50	2,208
12A	Pavement	5,460	sq.yd.	10.00	54,600
13A	Sidewalk	110	sq.yd.	7.20	792
14A	Curb	1,185	lin.ft.	3.00	3,555
Total					\$1,619,370

Cherrier Station

Chainage Station 117 / 05 to 122 / 84

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	44,660	cu.yd.	\$10.50	\$468,930
2	Decking	35,660	sq.ft.	4.00	142,640
3A	Concrete	620	cu.yd.	30.00	18,600
3B	Concrete	6,900	cu.yd.	37.00	255,300
3E	Concrete	310	cu.yd.	30.00	9,300
3F	Concrete	190	cu.yd.	45.00	8,550
4A	Reinforcing Steel	463	ton	240.00	111,120
5	Structural Steel	185	ton	275.00	50,875
6A	Membrane Waterproofing	7,430	sq.yd.	3.00	22,290
6B	Membrane Waterproofing	2,650	sq.yd.	4.15	10,995
7	Backfill	21,700	cu.yd.	5.00	108,500
8	Subway Underdrain	579	lin.ft.	7.60	4,400
9	Treatment of Expansion Joints	579	lin.ft.	3.85	2,229
10	Sound Dampening	5,211	sq.ft.	1.15	5,993
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	3,825	sq.yd.	10.00	38,250
13A	Sidewalk	140	sq.yd.	7.20	1,008
14A	Curb	150	lin.ft.	3.00	450
Total					\$1,264,680

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)—Continued

Between Cherrier Station and Station 151 / 00 (north of Marie-Anne)  
Chainage Station 122 / 84 to 151 / 00

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	90,880	cu.yd.	\$10.50	\$954,240
1D	Excavation	14,135	cu.yd.	9.00	127,215
2	Decking	115,045	sq.ft.	4.00	460,180
3A	Concrete	1,835	cu.yd.	30.00	55,050
3B	Concrete	23,285	cu.yd.	37.00	861,545
3E	Concrete	890	cu.yd.	30.00	26,700
4A	Reinforcing Steel	1,315	ton	240.00	315,600
6A	Membrane Waterproofing	21,785	sq.yd.	3.00	65,355
6B	Membrane Waterproofing	12,720	sq.yd.	4.15	52,788
7	Backfill	35,325	cu.yd.	5.00	176,625
8	Subway Underdrain	2,816	lin.ft.	7.60	21,402
9	Treatment of Expansion Joints	2,816	lin.ft.	3.85	10,842
10	Sound Dampening	16,896	sq.ft.	1.15	19,430
11	Miscellaneous Steel	7,735	lb.	0.50	3,868
12A	Pavement	12,285	sq.yd.	10.00	122,850
14A	Curb	325	lin.ft.	3.00	975
<u>Total</u>					<u>\$3,274,665</u>

Cremazie Station  
Chainage Station 317 / 42 to 322 / 42

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	16,870	cu.yd.	\$10.50	\$177,135
1D	Excavation	21,960	cu.yd.	9.00	197,640
2	Decking	30,705	sq.ft.	4.00	122,820
3A	Concrete	25	cu.yd.	30.00	750
3B	Concrete	6,795	cu.yd.	37.00	251,415
3E	Concrete	60	cu.yd.	30.00	1,800
3F	Concrete	170	cu.yd.	45.00	7,650
4A	Reinforcing Steel	420	ton	240.00	100,800
5	Structural Steel	137	ton	275.00	37,675
6A	Membrane Waterproofing	915	sq.yd.	3.00	2,745
6B	Membrane Waterproofing	705	sq.yd.	4.15	2,927
7	Backfill	18,245	cu.yd.	5.00	91,225
8	Subway Underdrain	1,000	lin.ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	3,000	sq.ft.	1.15	3,450
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	2,035	sq.yd.	10.00	20,350
13A	Sidewalk	265	sq.yd.	7.20	1,908
14A	Curb	455	lin.ft.	3.00	1,365
<u>Total</u>					<u>\$1,036,430</u>

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)—Continued

Between Cremazie Station and Youville Terminal Station  
Chainage Station 322 / 42 to 332 / 83

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	35,005	cu. yd.	\$ 10.50	\$ 367,553
1D	Excavation	9,625	cu. yd.	9.00	86,625
2	Decking	13,110	sq. ft.	4.00	52,440
3A	Concrete	340	cu. yd.	30.00	10,200
3B	Concrete	11,045	cu. yd.	37.00	408,665
3E	Concrete	165	cu. yd.	30.00	4,950
4A	Reinforcing Steel	795	ton	240.00	190,800
6A	Membrane Waterproofing	7,165	sq. yd.	3.00	21,495
6B	Membrane Waterproofing	8,335	sq. yd.	4.15	34,590
7	Backfill	13,680	cu. yd.	5.00	68,400
8	Subway Underdrain	2,082	lin. ft.	7.60	15,823
9	Treatment of Expansion Joints	1,041	lin. ft.	3.85	4,008
10	Sound Dampening	8,328	sq. ft.	1.15	9,579
11	Miscellaneous Steel	5,010	lb.	0.50	2,505
12A	Pavement	975	sq. yd.	10.00	9,750
13A	Sidewalk	335	sq. yd.	7.20	2,412
14A	Curb	415	lin. ft.	3.00	1,245
	Total				\$ 1,291,040

Youville Terminal Station  
Chainage Station 332 / 83 to 337 / 83

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	15,550	cu. yd.	\$ 10.50	\$ 163,275
2	Decking	10,645	sq. ft.	4.00	42,580
3A	Concrete	500	cu. yd.	30.00	15,000
3B	Concrete	6,295	cu. yd.	37.00	232,915
3E	Concrete	250	cu. yd.	30.00	7,500
3F	Concrete	210	cu. yd.	45.00	9,450
4A	Reinforcing Steel	406	ton	240.00	97,440
5	Structural Steel	112	ton	275.00	30,800
6A	Membrane Waterproofing	6,020	sq. yd.	3.00	18,060
6B	Membrane Waterproofing	2,000	sq. yd.	4.15	8,300
8	Subway Underdrain	1,000	lin. ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin. ft.	3.85	1,925
10	Sound Dampening	3,000	sq. ft.	1.15	3,450
11	Miscellaneous Steel	13,415	lb.	0.50	6,706
12A	Pavement	745	sq. yd.	10.00	7,450
13A	Sidewalk	420	sq. yd.	7.20	3,024
14A	Curb	240	lin. ft.	3.00	720
15	Landscaping & Monuments		L.S.		5,640
	Total				\$ 661,835

I - HIGH LEVEL SECTIONS (Cut and Cover Type of Construction)--Continued

Between Youville Terminal Station and North Portal  
Chainage Station 337 / 83 to 340 / 50

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	6,135	cu.yd.	\$10.50	\$64,417
3A	Concrete	270	cu.yd.	30.00	8,100
3B	Concrete	3,600	cu.yd.	37.00	133,200
3E	Concrete	135	cu.yd.	30.00	4,050
4A	Reinforcing Steel	254	ton	240.00	60,960
6A	Membrane Waterproofing	3,245	sq.yd.	3.00	9,735
6B	Membrane Waterproofing	1,265	sq.yd.	4.15	5,250
8	Subway Underdrain	534	lin.ft.	7.60	4,058
9	Treatment of Expansion Joints	267	lin.ft.	3.85	1,028
10	Sound Dampening	2,136	sq.ft.	1.15	2,457
	Portal Railing	148	lin.ft.	16.00	2,370
					\$ 295,625
					\$ 295,625

ESTIMATED TOTAL COST OF HIGH LEVEL SECTIONS

\$ 34,814,635

Note: Estimated costs of station finish and the underpinning and support of adjacent structures are not included herein, but are shown as separate items in this appendix.

SUBWAY STRUCTURE

**II - EARTH TUNNEL SECTION**

Between St. Catherine-DeMontigny and Cherrier Stations  
Chainage Station 104 / 50 (north of Ontario St.) to  
117 / 05 (south end of Cherrier Station)

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1E	Excavation	32,090	cu.yd.	\$ 47.00	\$1,508,230
3A	Concrete	1,060	cu.yd.	30.00	31,800
3C	Concrete	12,400	cu.yd.	55.00	682,000
4B	Reinforcing Steel	1,324	ton	260.00	344,240
8	Subway Underdrain	2,510	lin.ft.	7.60	19,076
9	Treatment of Expansion Joints	1,255	lin.ft.	3.85	4,831
10	Sound Dampening	10,040	sq.ft.	1.15	11,546
11	Miscellaneous Steel	4,165	lb.	0.50	2,082

**ESTIMATED TOTAL COST OF EARTH TUNNEL SECTION** \$2,603,805

**Note:** Estimated costs of station finish and the underpinning and support of adjacent structures are not included herein, but are shown as separate items in this appendix.

12A	Pavement	600	sq.yd.	10.00	6,000
13A	Sidewalk	70	sq.yd.	7.50	525
14A	Curb	90	lin.ft.	2.00	180
<b>Total</b>					<b>17,855,355</b>

SUBWAY STRUCTURE

III - ROCK TUNNEL SECTION

Between Cherrier and Mount Royal Stations  
Chainage Station 151 / 00 (North of Marie-Anne) to 152 / 60

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	265	cu.yd.	\$ 10.50	\$ 2,783
1F	Excavation	4,010	cu.yd.	27.00	108,270
3D	Concrete	1,160	cu.yd.	55.00	63,800
4B	Reinforcing Steel	66	ton	260.00	17,160
6B	Membrane Waterproofing	255	sq.yd.	4.15	1,058
7	Backfill	70	cu.yd.	5.00	350
8	Subway Underdrain	320	lin.ft.	7.60	2,432
9	Treatment of Expansion Joints	160	lin.ft.	3.85	616
10	Sound Dampening	1,280	sq.ft.	1.15	1,471
11	Miscellaneous Steel	2,035	lb.	0.50	1,018
13A	Sidewalk	10	sq.yd.	7.20	72
	Total				<u>\$199,030</u>

Mount Royal Station  
Chainage Station 152 / 60 to 157 / 60

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	2,330	cu.yd.	\$ 10.50	\$ 24,465
1D	Excavation	4,150	cu.yd.	9.00	37,350
1F	Excavation	12,470	cu.yd.	27.00	336,690
2	Decking	6,485	sq.ft.	4.00	25,940
3A	Concrete	15	cu.yd.	30.00	450
3B	Concrete	1,380	cu.yd.	37.00	51,060
3D	Concrete	2,810	cu.yd.	55.00	154,550
3E	Concrete	40	cu.yd.	30.00	1,200
3F	Concrete	225	cu.yd.	45.00	10,125
4A	Reinforcing Steel	63	ton	240.00	15,120
4B	Reinforcing Steel	212	ton	260.00	55,120
5	Structural Steel	122	ton	275.00	33,550
6A	Membrane Waterproofing	510	sq.yd.	3.00	1,530
6B	Membrane Waterproofing	445	sq.yd.	4.15	1,847
7	Backfill	2,085	cu.yd.	5.00	10,425
8	Subway Underdrain	1,000	lin.ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	3,750	sq.ft.	1.15	4,313
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	605	sq.yd.	10.00	6,050
13A	Sidewalk	70	sq.yd.	7.20	505
14A	Curb	90	lin.ft.	3.00	270
	Total				<u>\$785,335</u>

III -ROCK TUNNEL SECTION--Continued

Between Mount Royal and St. Joseph Stations  
Chainage Station 157 / 60 to 167 / 90

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	710	cu.yd.	\$ 10.50	\$ 7,455
1F	Excavation	22,370	cu.yd.	27.00	603,990
3D	Concrete	6,240	cu.yd.	55.00	343,200
4B	Reinforcing Steel	353	ton	260.00	91,780
6B	Membrane Waterproofing	680	sq.yd.	4.15	2,824
7	Backfill	185	cu.yd.	5.00	925
8	Subway Underdrain	2,060	lin.ft.	7.60	15,656
9	Treatment of Expansion Joints	1,030	lin.ft.	3.85	3,966
10	Sound Dampening	8,240	sq.ft.	1.15	9,476
11	Miscellaneous Steel	4,760	lb.	0.50	2,380
13A	Sidewalk	40	sq.yd.	7.20	288
Total					\$1,081,940

St. Joseph Station  
Chainage Station 167 / 90 to 172 / 90

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	700	cu.yd.	\$ 10.50	\$ 7,350
1D	Excavation	5,895	cu.yd.	9.00	53,055
1F	Excavation	12,470	cu.yd.	27.00	336,690
2	Decking	5,925	sq.ft.	4.00	23,700
3A	Concrete	5	cu.yd.	30.00	150
3B	Concrete	1,420	cu.yd.	37.00	52,540
3D	Concrete	2,805	cu.yd.	55.00	154,275
3E	Concrete	45	cu.yd.	30.00	1,350
3F	Concrete	225	cu.yd.	45.00	10,125
4A	Reinforcing Steel	65	ton	240.00	15,600
4B	Reinforcing Steel	212	ton	260.00	55,120
5	Structural Steel	122	ton	275.00	33,550
6A	Membrane Waterproofing	525	sq.yd.	3.00	1,575
6B	Membrane Waterproofing	100	sq.yd.	4.15	415
7	Backfill	1,910	cu.yd.	5.00	9,550
8	Subway Underdrain	1,000	lin.ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	3,750	sq.ft.	1.15	4,314
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	620	sq.yd.	10.00	6,200
13A	Sidewalk	80	sq.yd.	7.20	576
14A	Curb	90	lin.ft.	3.00	270
Total					\$781,180

III - ROCK TUNNEL SECTION--Continued

Between St. Joseph and De Fleurimont Stations  
Chainage Station 172 / 90 to 205 / 93

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	1,425	cu.yd.	\$ 10.50	\$ 14,962
1F	Excavation	72,065	cu.yd.	27.00	1,945,755
3D	Concrete	18,880	cu.yd.	55.00	1,038,400
4B	Reinforcing Steel	1,201	ton	260.00	312,260
6B	Membrane Waterproofing	1,360	sq.yd.	4.15	5,644
7	Backfill	385	cu.yd.	5.00	1,925
8	Subway Underdrain	6,606	lin.ft.	7.60	50,206
9	Treatment of Expansion Joints	3,303	lin.ft.	3.85	12,716
10	Sound Dampening	26,424	sq.ft.	1.15	30,388
11	Miscellaneous Steel	9,520	lb.	0.50	4,760
13A	Sidewalk	95	sq.yd.	7.20	684
Total					\$3,417,700

De Fleurimont Station  
Chainage Station 205 / 93 to 210 / 93

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	545	cu.yd.	\$ 10.50	\$ 5,723
1D	Excavation	4,065	cu.yd.	9.00	36,585
1F	Excavation	12,470	cu.yd.	27.00	336,690
2	Decking	4,065	sq.ft.	4.00	16,260
3A	Concrete	5	cu.yd.	30.00	150
3B	Concrete	1,260	cu.yd.	37.00	46,620
3D	Concrete	2,805	cu.yd.	55.00	154,275
3E	Concrete	35	cu.yd.	30.00	1,050
3F	Concrete	225	cu.yd.	45.00	10,125
4A	Reinforcing Steel	167	ton	240.00	40,080
4B	Reinforcing Steel	212	ton	260.00	55,120
5	Structural Steel	122	ton	275.00	33,550
6A	Membrane Waterproofing	405	sq.yd.	3.00	1,215
6B	Membrane Waterproofing	100	sq.yd.	4.15	415
7	Backfill	1,475	cu.yd.	5.00	7,375
8	Subway Underdrain	1,000	lin.ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	3,750	sq.ft.	1.15	4,311
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	385	sq.yd.	10.00	3,850
13A	Sidewalk	80	sq.yd.	7.20	576
14A	Curb	65	lin.ft.	3.00	195
Total					\$768,940

III - ROCK TUNNEL SECTION--Continued

Between De Fleurimont and Beaubien Stations  
Chainage Station 210 / 93 to 219 / 00

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	710	cu.yd.	\$ 10.50	\$ 7,455
1F	Excavation	18,005	cu.yd.	27.00	486,135
3D	Concrete	5,080	cu.yd.	55.00	279,400
4B	Reinforcing Steel	286	ton	260.00	74,360
6B	Membrane Waterproofing	680	sq.yd.	4.15	2,822
7	Backfill	185	cu.yd.	5.00	925
8	Subway Underdrain	1,614	lin.ft.	7.60	12,266
9	Treatment of Expansion Joints	807	lin.ft.	3.85	3,107
10	Sound Dampening	6,456	sq.ft.	1.15	7,422
11	Miscellaneous Steel	4,760	lb.	0.50	2,380
13A	Sidewalk	40	sq.yd.	7.20	288
Total					\$876,560

Beaubien Station  
Chainage Station 219 / 00 to 224 / 00

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	1,860	cu.yd.	\$ 10.50	\$ 19,530
1D	Excavation	3,410	cu.yd.	9.00	30,690
1F	Excavation	12,470	cu.yd.	27.00	336,690
2	Decking	4,750	sq.ft.	4.00	19,000
3A	Concrete	5	cu.yd.	30.00	150
3B	Concrete	1,230	cu.yd.	37.00	45,510
3D	Concrete	2,805	cu.yd.	55.00	154,275
3E	Concrete	30	cu.yd.	30.00	900
3F	Concrete	225	cu.yd.	45.00	10,125
4A	Reinforcing Steel	58	ton	240.00	13,920
4B	Reinforcing Steel	212	ton	260.00	55,120
5	Structural Steel	122	ton	275.00	33,550
6A	Membrane Waterproofing	390	sq.yd.	3.00	1,170
6B	Membrane Waterproofing	300	sq.yd.	4.15	1,245
7	Backfill	1,390	cu.yd.	5.00	6,950
8	Subway Underdrain	1,000	lin.ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	3,750	sq.ft.	1.15	4,313
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	485	sq.yd.	10.00	4,850
13A	Sidewalk	45	sq.yd.	7.20	327
14A	Curb	60	lin.ft.	3.00	180
Total					\$753,270

III - ROCK TUNNEL SECTION--Continued

Between Beaubien and Jean Talon Stations  
Chainage Station 224 / 00 to 246 / 43

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	1,070	cu.yd.	\$ 10.50	\$ 11,235
1F	Excavation	46,830	cu.yd.	27.00	1,264,410
3D	Concrete	12,860	cu.yd.	55.00	707,300
4B	Reinforcing Steel	737	ton	260.00	191,620
6B	Membrane Waterproofing	1,020	sq.yd.	4.15	4,233
7	Backfill	285	cu.yd.	5.00	1,425
8	Subway Underdrain	4,486	lin.ft.	7.60	34,094
9	Treatment of Expansion Joints	2,243	lin.ft.	3.85	8,635
10	Sound Dampening	17,944	sq.ft.	1.15	20,635
11	Miscellaneous Steel	7,390	lb.	0.50	3,695
13A	Sidewalk	65	sq.yd.	7.20	468
Total					\$2,247,750

Jean Talon Station  
Chainage Station 246 / 43 to 251 / 43

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	2,020	cu.yd.	\$ 10.50	\$ 21,210
1D	Excavation	1,705	cu.yd.	9.00	15,345
1F	Excavation	14,080	cu.yd.	27.00	380,160
2	Decking	6,385	sq.ft.	4.00	25,540
3A	Concrete	10	cu.yd.	30.00	300
3B	Concrete	1,095	cu.yd.	37.00	40,515
3D	Concrete	3,170	cu.yd.	55.00	174,350
3E	Concrete	45	cu.yd.	30.00	1,350
3F	Concrete	225	cu.yd.	45.00	10,125
4A	Reinforcing Steel	47	ton	240.00	11,280
4B	Reinforcing Steel	239	ton	260.00	62,140
5	Structural Steel	113	ton	275.00	31,075
6A	Membrane Waterproofing	520	sq.yd.	3.00	1,560
6B	Membrane Waterproofing	360	sq.yd.	4.15	1,494
7	Backfill	1,735	cu.yd.	5.00	8,825
8	Subway Underdrain	1,000	lin.ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	3,750	sq.ft.	1.15	4,313
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	595	sq.yd.	10.00	5,950
13A	Sidewalk	90	sq.yd.	7.20	648
14A	Curb	105	lin.ft.	3.00	315
Total					\$811,270

III - ROCK TUNNEL SECTION - Continued

Between Jean Talon and Villeray Stations  
Chainage Station 251 / 43 to 272 / 05

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	1,070	cu.yd.	\$ 10.50	\$ 11,235
1F	Excavation	46,865	cu.yd.	27.00	1,265,355
3D	Concrete	12,030	cu.yd.	55.00	661,650
4B	Reinforcing Steel	808	ton	260.00	210,080
6B	Membrane Waterproofing	1,020	sq.yd.	4.15	4,236
7	Backfill	285	cu.yd.	5.00	1,425
8	Subway Underdrain	4,124	lin.ft.	7.60	31,342
9	Treatment of Expansion Joints	2,062	lin.ft.	3.85	7,939
10	Sound Dampening	16,496	sq.ft.	1.15	18,970
11	Miscellaneous Steel	7,140	lb.	0.50	3,570
13A	Sidewalk	65	sq.ft.	7.20	468
	Total				\$2,216,270

Villeray Station  
Chainage Station 272 / 05 to 277 / 05

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	1,425	cu.yd.	\$ 10.50	\$ 14,963
1D	Excavation	3,595	cu.yd.	9.00	32,355
1F	Excavation	12,470	cu.yd.	27.00	336,690
2	Decking	4,750	sq.ft.	4.00	19,000
3A	Concrete	5	cu.yd.	30.00	150
3B	Concrete	1,230	cu.yd.	37.00	45,510
3D	Concrete	2,805	cu.yd.	55.00	154,275
3E	Concrete	30	cu.yd.	30.00	900
3F	Concrete	225	cu.yd.	45.00	10,125
4A	Reinforcing Steel	58	ton	240.00	13,920
4B	Reinforcing Steel	212	ton	260.00	55,120
5	Structural Steel	122	ton	275.00	33,550
6A	Membrane Waterproofing	390	sq.yd.	3.00	1,170
6B	Membrane Waterproofing	195	sq.yd.	4.15	809
7	Backfill	1,350	cu.yd.	5.00	6,750
8	Subway Underdrain	1,000	lin.ft.	7.60	7,600
9	Treatment of Expansion Joints	500	lin.ft.	3.85	1,925
10	Sound Dampening	3,750	sq.ft.	1.15	4,314
11	Miscellaneous Steel	10,500	lb.	0.50	5,250
12A	Pavement	485	sq.yd.	10.00	4,850
13A	Sidewalk	45	sq.yd.	7.20	324
14A	Curb	60	lin.ft.	3.00	180
	Total				\$749,730

III - ROCK TUNNEL SECTION --Continued

Between Villeray and Cremazie Stations  
 Chainage Station 277 / 05 to 317 / 42 (south end of Cremazie Station)

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1A	Excavation	1,780	cu.yd.	\$ 10.50	\$ 18,690
1F	Excavation	83,960	cu.yd.	27.00	2,266,920
3D	Concrete	23,045	cu.yd.	55.00	1,267,475
4B	Reinforcing Steel	1,319	ton	260.00	342,940
6B	Membrane Waterproofing	1,700	sq.yd.	4.15	7,055
7	Backfill	485	cu.yd.	5.00	2,425
8	Subway Underdrain	8,074	lin.ft.	7.60	61,362
9	Treatment of Expansion Joints	4,037	lin.ft.	3.85	15,542
10	Sound Dampening	32,296	sq.ft.	1.15	37,142
11	Miscellaneous Steel	18,750	lb.	0.50	9,375
13A	Sidewalk	120	sq.yd.	7.20	864
					<u>\$4,029,790</u>
	<b>ESTIMATED TOTAL COST OF ROCK TUNNEL SECTION</b>				<b>\$18,718,765</b>

Note: Estimated costs of station finish and the underpinning and support of adjacent structures are not included herein, but are shown as separate items in this appendix.

SUBWAY STRUCTURE

IV - STATION FINISH - Underground

Atwater Station

Chainage Station 96 / 44 to 101 / 44

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	24,440	sq.ft.	\$ 0.60	\$ 14,664
17	Terrazzo Base	1,965	lin.ft.	1.00	1,965
18	Terrazzo Stair Finish	1,620	sq.ft.	1.50	2,430
19	Terrazzo Base at Stairways	660	lin.ft.	1.25	825
20	Cement Floor - Plain	2,120	sq.ft.	0.35	742
21	Cement Base - Plain	510	lin.ft.	1.00	510
24A	Station Wall Finish	17,115	sq.ft.	5.50	94,133
24B	Station Wall Finish	1,290	sq.ft.	6.15	7,934
25	Hollow Tile	630	sq.ft.	1.10	693
27	Non-Slip Nosing Tile	3,600	sq.ft.	1.25	4,500
28	Painting of Concrete	9,270	sq.ft.	0.11	1,020
29B	Handrail	632	lin.ft.	2.25	1,422
30A	Ornamental Railing	45	lin.ft.	8.00	360
30B	Ornamental Railing	48	lin.ft.	8.00	384
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	11	each	100.00	1,100
34	Toilet Partitions	5	lin.ft.	10.00	50
35	Slop Sink	1	each	400.00	400
36	Wash Basin	1	each	400.00	400
37	Water Closet	1	each	400.00	400
39	Cashier Booth	1	each	1200.00	1,200
40	Granite Base	160	lin.ft.	14.30	2,288

Total

\$ 137,600

IV - STATION FINISH - Underground--Continued

Guy Station

Chainage Station 121 / 45 to 126 / 45

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	12,550	sq.ft.	\$ 0.60	\$ 7,530
17	Terrazzo Base	1,160	lin.ft.	1.00	1,160
18	Terrazzo Stair Finish	1,310	sq.ft.	1.50	1,965
19	Terrazzo Base at Stairways	570	lin.ft.	1.25	712
20	Cement Floor - Plain	625	sq.ft.	0.35	219
21	Cement Base - Plain	220	lin.ft.	1.00	220
22	Mastic Floor	265	sq.ft.	1.00	265
23	Mastic Base	70	lin.ft.	1.00	70
24A	Station Wall Finish	10,175	sq.ft.	5.50	55,963
24B	Station Wall Finish	510	sq.ft.	6.15	3,136
25	Hollow Tile	850	sq.ft.	1.10	935
27	Non-Slip Nosing Tile	1,810	sq.ft.	1.25	2,263
28	Painting of Concrete	900	sq.ft.	0.11	99
29B	Handrail	493	lin.ft.	2.25	1,110
30A	Ornamental Railing	240	lin.ft.	8.00	1,920
30B	Ornamental Railing	72	lin.ft.	8.00	576
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	8	each	100.00	800
34	Toilet Partitions	10	lin.ft.	10.00	100
35	Slop Sinks	2	each	400.00	800
36	Wash Basins	2	each	400.00	800
37	Water Closets	2	each	400.00	800
39	Cashier Booths	2	each	1200.00	2,400
40	Granite Base	240	lin.ft.	14.30	3,432
	<b>Total</b>				<b>\$ 87,455</b>

IV - STATION FINISH - Underground--Continued

Dominion Square Station  
 Chainage Station 147 / 35 to 3 / 76  
 Equation 150 / 12 (back) = 0 / 00 (Ahead)

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	19,930	sq.ft.	\$ 0.60	\$ 11,958
17	Terrazzo Base	1,960	lin.ft.	1.00	1,960
18	Terrazzo Stair Finish	2,960	sq.ft.	1.50	4,440
19	Terrazzo Base at Stairways	1,610	lin.ft.	1.25	2,012
20	Cement Floor - Plain	840	sq.ft.	0.35	294
21	Cement Base - Plain	220	lin.ft.	1.00	220
22	Mastic Floor	210	sq.ft.	1.00	210
23	Mastic Base	80	lin.ft.	1.00	80
24A	Station Wall Finish	20,220	sq.ft.	5.50	111,210
24B	Station Wall Finish	40	sq.ft.	6.15	246
25	Hollow Tile	825	sq.ft.	1.10	908
27	Non-Slip Nosing Tile	2,340	sq.ft.	1.25	2,925
28	Painting of Concrete	10,600	sq.ft.	0.11	1,166
29A	Handrail	100	lin.ft.	8.00	800
29B	Handrail	940	lin.ft.	2.25	2,115
30A	Ornamental Railing	336	lin.ft.	8.00	2,688
30B	Ornamental Railing	66	lin.ft.	8.00	528
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	10	each	100.00	1,000
34	Toilet Partitions	10	lin.ft.	10.00	100
35	Slop Sinks	2	each	400.00	800
36	Wash Basins	2	each	400.00	800
37	Wash Closets	2	each	400.00	800
39	Cashier Booths	2	each	1200.00	2,400
40	Granite Base	407	lin.ft.	14.30	5,820
<b>Total</b>					<b>\$ 155,660</b>

IV - STATION FINISH - Underground--Continued

Victoria Square Station  
 Chainage Station 28 / 67 to 33 / 67

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	12,775	sq.ft.	\$ 0.60	\$ 7,653
17	Terrazzo Base	1,120	lin.ft.	1.00	1,120
18	Terrazzo Stair Finish	1,420	sq.ft.	1.50	2,130
19	Terrazzo Base at Stairways	350	lin.ft.	1.25	438
20	Cement Floor - Plain	890	sq.ft.	0.35	312
21	Cement Base - Plain	190	lin.ft.	1.00	190
22	Mastic Floor	140	sq.ft.	1.00	140
23	Mastic Base	50	lin.ft.	1.00	50
24A	Station Wall Finish	10,110	sq.ft.	5.50	55,605
24B	Station Wall Finish	270	sq.ft.	6.15	1,661
25	Hollow Tile	815	sq.ft.	1.10	897
27	Non-Slip Nosing Tile	1,880	sq.ft.	1.25	2,350
28	Painting of Concrete	2,380	sq.ft.	0.11	262
29B	Handrail	458	lin.ft.	2.25	1,031
30A	Ornamental Railing	256	lin.ft.	8.00	2,048
30B	Ornamental Railing	56	lin.ft.	8.00	448
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	6	each	100.00	600
34	Toilet Partitions	10	lin.ft.	10.00	100
35	Slop Sinks	2	each	400.00	800
36	Wash Basins	2	each	400.00	800
37	Water Closets	2	each	400.00	800
39	Cashier Booths	2	each	1200.00	2,400
40	Granite Base	256	lin.ft.	14.30	3,660
Total					\$ 85,675



IV - STATION FINISH - Underground--Continued

Champ de Mars Station  
 Chainage Station 60 / 64 to 65 / 64

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	13,620	sq.ft.	\$ 0.60	\$ 8,172
17	Terrazzo Base	1,355	lin.ft.	1.00	1,355
18	Terrazzo Stair Finish	1,800	sq.ft.	1.50	2,700
19	Terrazzo Base at Stairways	290	lin.ft.	1.25	361
20	Cement Floor - Plain	580	sq.ft.	0.35	203
21	Cement Base - Plain	185	lin.ft.	1.00	185
22	Mastic Floor	120	sq.ft.	1.00	120
23	Mastic Base	40	lin.ft.	1.00	40
24A	Station Wall Finish	11,550	sq.ft.	5.50	63,525
24B	Station Wall Finish	405	sq.ft.	6.15	2,491
25	Hollow Tile	490	sq.ft.	1.10	539
27	Non-Slip Nosing tile	1,780	sq.ft.	1.25	2,225
28	Painting of Concrete	3,700	sq.ft.	0.11	407
29A	Handrail	87	lin.ft.	8.00	696
29B	Handrail	258	lin.ft.	2.25	581
30A	Ornamental Railing	52	lin.ft.	8.00	416
30B	Ornamental Railing	40	lin.ft.	8.00	320
31	Pipe Railing	20	lin.ft.	4.00	80
32A	Gate	1	each	40.00	40
32B	Gates	4	each	25.00	100
33	Doors	5	each	100.00	500
34	Toilet Partitions	5	lin.ft.	10.00	50
35	Slop Sink	1	each	400.00	400
36	Wash Basin	1	each	400.00	400
37	Water Closet	1	each	400.00	400
39	Cashier Booths	2	each	1200.00	2,400
40	Granite Base	52	lin.ft.	14.30	744
Total					\$ 89,450

IV - STATION FINISH - Underground --Continued

St. Catherine - DeMontigny Station  
Chainage Station 86 / 22 to 91 / 22

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	17,570	sq.ft.	\$ 0.60	\$ 10,542
17	Terrazzo Base	1,610	lin.ft.	1.00	1,610
18	Terrazzo Stair Finish	2,145	sq.ft.	1.50	3,218
19	Terrazzo Base at Stairways	575	lin.ft.	1.25	719
20	Cement Floor - Plain	770	sq.ft.	0.35	270
21	Cement Base - Plain	145	lin.ft.	1.00	145
22	Mastic Floor	245	sq.ft.	1.00	245
23	Mastic Base	85	lin.ft.	1.00	85
24A	Station Wall Finish	15,320	sq.ft.	5.50	84,260
24B	Station Wall Finish	75	sq.ft.	6.15	461
25	Hollow Tile	1,710	sq.ft.	1.10	1,881
27	Non-Slip Nosing Tile	2,100	sq.ft.	1.25	2,625
28	Painting of Concrete	7,200	sq.ft.	0.11	792
29A	Handrail	48	lin.ft.	8.00	384
29B	Handrail	520	lin.ft.	2.25	1,170
30A	Ornamental Railing	204	lin.ft.	8.00	1,632
30B	Ornamental Railing	58	lin.ft.	8.00	464
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	4	each	100.00	400
34	Toilet Partitions	10	lin.ft.	10.00	100
35	Slop Sinks	2	each	400.00	800
36	Wash Basins	2	each	400.00	800
37	Water Closets	2	each	400.00	800
38	Urinals	2	each	400.00	800
39	Cashier Booths	5	each	1200.00	6,000
40	Granite Base	204	lin.ft.	14.30	2,917
Total					\$ 123,300

IV - STATION FINISH - Underground --Continued

Cherrier Station

Chainage Station 117 / 05 to 122 / 84

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	13,410	sq.ft.	\$ 0.60	\$ 8,046
17	Terrazzo Base	1,330	lin.ft.	1.00	1,330
18	Terrazzo Stair Finish	1,000	sq.ft.	1.50	1,500
19	Terrazzo Base at Stairways	430	lin.ft.	1.25	538
20	Cement Floor - Plain	400	sq.ft.	0.35	140
21	Cement Base - Plain	115	lin.ft.	1.00	115
22	Mastic Floor	110	sq.ft.	1.00	110
23	Mastic Base	40	lin.ft.	1.00	40
24A	Station Wall Finish	12,430	sq.ft.	5.50	68,364
24B	Station Wall Finish	30	sq.ft.	6.15	185
25	Hollow Tile	535	sq.ft.	1.10	588
27	Non-Slip Nosing Tile	1,715	sq.ft.	1.25	2,144
28	Painting of Concrete	3,500	sq.ft.	0.11	385
29B	Handrail	440	lin.ft.	2.25	990
30A	Ornamental Railing	176	lin.ft.	8.00	1,408
30B	Ornamental Railing	30	lin.ft.	8.00	240
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	6	each	100.00	600
34	Toilet Partitions	5	lin.ft.	10.00	50
35	Slop Sink	1	each	400.00	400
36	Wash Basin	1	each	400.00	400
37	Water Closet	1	each	400.00	400
39	Cashier Booth	1	each	1200.00	1,200
40	Granite Base	176	lin.ft.	14.30	2,517
Total					\$ 91,870



IV - STATION FINISH - Underground--Continued

St. Joseph Blvd. Station

Chainage Station 167 / 90 to 172 / 90

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	11,400	sq.ft.	\$ 0.60	\$ 6,840
17	Terrazzo Base	510	lin.ft.	1.00	510
18	Terrazzo Stair Finish	990	sq.ft.	1.50	1,485
19	Terrazzo Base at Stairways	410	lin.ft.	1.25	512
20	Cement Floor - Plain	820	sq.ft.	0.35	287
21	Cement Base - Plain	195	lin.ft.	1.00	195
22	Mastic Floor	190	sq.ft.	1.00	190
23	Mastic Base	55	lin.ft.	1.00	55
24A	Station Wall Finish	5,495	sq.ft.	5.50	30,222
24B	Station Wall Finish	1,190	sq.ft.	6.15	7,318
25	Hollow Tile	760	sq.ft.	1.10	836
27	Non-Slip Nosing Tile	1,980	sq.ft.	1.25	2,475
28	Painting of Concrete	36,050	sq.ft.	0.11	3,965
29B	Handrail	412	lin.ft.	2.25	926
30A	Ornamental Railing	172	lin.ft.	8.00	1,376
30B	Ornamental Railing	36	lin.ft.	8.00	288
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	6	each	100.00	600
34	Toilet Partitions	5	lin.ft.	10.00	50
35	Slop Sink	1	each	400.00	400
36	Wash Basin	1	each	400.00	400
37	Water Closet	1	each	400.00	400
38	Urinal	1	each	400.00	400
39	Cashier Booth	1	each	1200.00	1,200
40	Granite Base	172	lin.ft.	14.30	2,460
Total					\$ 63,570

IV - STATION FINISH - Underground--Continued

De Fleurimont Station  
Chainage Station 205 / 93 to 210 / 93

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	11,000	sq.ft.	\$ 0.60	\$ 6,600
17	Terrazzo Base	320	lin.ft.	1.00	320
18	Terrazzo Stair Finish	1,050	sq.ft.	1.50	1,575
19	Terrazzo Base at Stairways	370	lin.ft.	1.25	463
20	Cement Floor - Plain	310	sq.ft.	0.35	109
21	Cement Base - Plain	135	lin.ft.	1.00	135
22	Mastic Floor	190	sq.ft.	1.00	190
23	Mastic Base	55	lin.ft.	1.00	55
24A	Station Wall Finish	3,100	sq.ft.	5.50	17,050
24B	Station Wall Finish	955	sq.ft.	6.15	5,874
25	Hollow Tile	570	sq.ft.	1.10	627
27	Non-Slip Nosing Tile	1,755	sq.ft.	1.25	2,194
28	Painting of Concrete	35,300	sq.ft.	0.11	3,883
29B	Handrail	407	lin.ft.	2.25	916
30A	Ornamental Railing	158	lin.ft.	8.00	1,264
30B	Ornamental Railing	42	lin.ft.	8.00	336
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	5	each	100.00	500
34	Toilet Partitions	5	lin.ft.	10.00	50
35	Slop Sink	1	each	400.00	400
36	Wash Basin	1	each	400.00	400
37	Water Closet	1	each	400.00	400
39	Cashier Booth	1	each	1200.00	1,200
40	Granite Base	158	lin.ft.	14.30	2,259
Total					\$ 46,980

IV - STATION FINISH - Underground--Continued

Beaubien Station

Chainage Station 219 / 00 to 224 / 00

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	10,900	sq.ft.	\$ 0.60	\$ 6,540
17	Terrazzo Base	370	lin.ft.	1.00	370
18	Terrazzo Stair Finish	560	sq.ft.	1.50	840
19	Terrazzo Base at Stairways	230	lin.ft.	1.25	287
20	Cement Floor - Plain	560	sq.ft.	0.35	196
21	Cement Base - Plain	150	lin.ft.	1.00	150
22	Mastic Floor	190	sq.ft.	1.00	190
23	Mastic Base	55	lin.ft.	1.00	55
24A	Station Wall Finish	2,645	sq.ft.	5.50	14,548
24B	Station Wall Finish	1,015	sq.ft.	6.15	6,242
25	Hollow Tile	650	sq.ft.	1.10	715
27	Non-Slip Nosing Tile	1,565	sq.ft.	1.25	1,956
28	Painting of Concrete	34,900	sq.ft.	0.11	3,838
29B	Handrail	242	lin.ft.	2.25	545
30A	Ornamental Railing	80	lin.ft.	8.00	640
30B	Ornamental Railing	28	lin.ft.	8.00	224
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	6	each	100.00	600
34	Toilet Partitions	6	lin.ft.	10.00	60
35	Slop Sink	1	each	400.00	400
36	Wash Basin	1	each	400.00	400
37	Water Closet	1	each	400.00	400
38	Urinal	1	each	400.00	400
39	Cashier Booth	1	each	1200.00	1,200
40	Granite Base	80	lin.ft.	14.30	1,144
Total					\$ 42,120



IV - STATION FINISH - Underground--Continued

Villeray Station

Chainage Station 272 / 05 to 277 / 05

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	10,900	sq.ft.	\$ 0.60	\$ 6,540
17	Terrazzo Base	365	lin.ft.	1.00	365
18	Terrazzo Stair Finish	560	sq.ft.	1.50	840
19	Terrazzo Base at Stairways	230	lin.ft.	1.25	288
20	Cement Floor - Plain	555	sq.ft.	0.35	194
21	Cement Base - Plain	150	lin.ft.	1.00	150
22	Mastic Floor	190	sq.ft.	1.00	190
23	Mastic Base	55	lin.ft.	1.00	55
24A	Station Wall Finish	2,645	sq.ft.	5.50	14,548
24B	Station Wall Finish	1,015	sq.ft.	6.15	6,242
25	Hollow Tile	640	sq.ft.	1.10	704
27	Non-Slip Nosing Tile	1,565	sq.ft.	1.25	1,957
28	Painting of Concrete	34,900	sq.ft.	0.11	3,839
29B	Handrail	240	lin.ft.	2.25	540
30A	Ornamental Railing	80	lin.ft.	8.00	640
30B	Ornamental Railing	28	lin.ft.	8.00	224
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	6	each	100.00	600
34	Toilet Partitions	6	lin.ft.	10.00	60
35	Slop Sink	1	each	400.00	400
36	Wash Basin	1	each	400.00	400
37	Water Closet	1	each	400.00	400
38	Urinal	1	each	400.00	400
39	Cashier Booth	1	each	1200.00	1,200
40	Granite Base	80	lin.ft.	14.30	1,144
Total					\$ 42,100

IV - STATION FINISH - Underground--Continued

Cremazie Blvd. Station

Chainage Station 317 / 42 to 322 / 42

<u>Item No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
16	Terrazzo Floor	11,900	sq.ft.	\$ 0.60	\$ 7,140
17	Terrazzo Base	610	lin.ft.	1.00	610
18	Terrazzo Stair Finish	1,050	sq.ft.	1.50	1,575
19	Terrazzo Base at Stairways	460	lin.ft.	1.25	575
20	Cement Floor - Plain	1,020	sq.ft.	0.35	357
21	Cement Base - Plain	280	lin.ft.	1.00	280
22	Mastic Floor	190	sq.ft.	1.00	190
23	Mastic Base	55	lin.ft.	1.00	55
24A	Station Wall Finish	15,615	sq.ft.	5.50	85,881
24B	Station Wall Finish	1,885	sq.ft.	6.15	11,593
25	Hollow Tile	800	sq.ft.	1.10	880
27	Non-Slip Nosing Tile	1,740	sq.ft.	1.25	2,175
28	Painting of Concrete	2,800	sq.ft.	0.11	308
29B	Handrail	450	lin.ft.	2.25	1,012
30A	Ornamental Railing	196	lin.ft.	8.00	1,568
30B	Ornamental Railing	76	lin.ft.	8.00	608
31	Pipe Railing	20	lin.ft.	4.00	80
32B	Gates	4	each	25.00	100
33	Doors	10	each	100.00	1,000
34	Toilet Partitions	10	lin.ft.	10.00	100
35	Slop Sinks	2	each	400.00	800
36	Wash Basins	2	each	400.00	800
37	Water Closets	2	each	400.00	800
39	Cashier Booths	2	each	1200.00	2,400
40	Granite Base	196	lin.ft.	14.30	2,803
Total					\$123,690

ESTIMATED TOTAL COST OF STATION FINISH - Underground \$ 1,450,000



SUBWAY STRUCTURE

V - ABOVE GROUND STATIONS

The following tabulations show the approximate quantities in the respective facilities.

Atwater Bus Terminal

Located at the North West corner of Atwater Avenue and St. Catherine Street.

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Excavation	2,220	cu.yd.	\$ 4.00	\$ 8,880
Concrete	490	cu.yd.	45.00	22,050
Concrete	780	cu.yd.	40.00	31,200
Concrete	430	cu.yd.	27.00	11,610
Reinforcing Steel	63	ton	240.00	15,120
Structural Steel	76	ton	275.00	20,900
Backfill	680	cu.yd.	3.00	2,040
Terrazzo Floor	7,895	sq.ft.	0.60	4,737
Terrazzo Base	840	lin.ft.	1.00	840
Cement Floor-Plain	1,800	sq.ft.	0.35	630
Cement Base-Plain	370	lin.ft.	1.00	370
Station Wall Finish	5,035	sq.ft.	5.50	27,692
Station Wall Finish	1,800	sq.ft.	6.15	11,070
Hollow Tile	680	sq.ft.	1.10	748
Brick Work	126	1000	90.00	11,340
Glass Blocks	920	each	1.35	1,242
Pipe Railing	48	lin.ft.	4.00	192
Doors	4	each	200.00	800
Doors	7	each	100.00	700
Cashier Booth	1	each	1200.00	1,200
Structural Glass		L. S.		33,300
Suspended Ceiling	20,385	sq.ft.	3.00	61,155
Sill	700	sq.ft.	3.00	2,100
Roofing	270	square	45.50	12,285
Drain	816	lin.ft.	1.50	1,224
Heating		L. S.		12,500
Steel Pipe	224	lin.ft.	3.50	784
Precast Roof Slabs	16,785	sq.ft.	0.60	10,071
Lighting		L. S.		17,400
<b>Total</b>				<b>\$ 324,180</b>

V - ABOVE GROUND STATIONS--Continued

Youville Bus Terminal

Western Square Bus Terminal

Located in Western Square, on St. Catherine Street,  
between Closse Street and Atwater Avenue.

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Excavation	420	cu.yd.	\$ 4.00	\$ 1,680
Concrete	135	cu.yd.	45.00	6,075
Concrete	120	cu.yd.	40.00	4,800
Concrete	115	cu.yd.	27.00	3,105
Reinforcing Steel	14	ton	240.00	3,360
Backfill	110	cu.yd.	3.00	330
Cement Floor-Plain	3,010	sq.ft.	0.35	1,054
Cement Base-Plain	245	lin.ft.	1.00	245
Brick Work	42	1000	90.00	3,780
Glass Blocks	1,100	each	1.35	1,485
Sill	750	sq.ft.	3.00	2,250
Roofing	40	square	45.50	1,820
Drain	245	lin.ft.	1.50	368
Steel Pipe	175	lin.ft.	3.50	613
Lighting		L.S.		<u>2,500</u>
	<b>Total</b>			<b>\$33,465</b>

DeFleurimont Bus Station

Located on the West side of St. Denis Street, between  
DeFleurimont Street and Bellechasse Street, on property  
owned by The Montreal Transportation Commission

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Excavation	365	cu.yd.	\$ 4.00	\$ 1,460
Concrete	115	cu.yd.	45.00	5,175
Concrete	130	cu.yd.	40.00	5,200
Concrete	100	cu.yd.	27.00	2,700
Reinforcing Steel	14	ton	240.00	3,360
Backfill	95	cu.yd.	3.00	285
Cement Floor-Plain	2,490	sq.ft.	0.35	872
Cement Base-Plain	210	lin.ft.	1.00	210
Brick Work	34	1000	90.00	3,060
Glass Blocks	510	each	1.35	689
Sill	380	sq.ft.	3.00	1,140
Roofing	38	square	45.50	1,729
Drain	208	lin.ft.	1.50	312
Steel Pipe	145	lin.ft.	3.50	508
Lighting		L.S.		<u>2,500</u>
	<b>Total</b>			<b>\$ 29,200</b>

V - ABOVE GROUND STATIONS --Continued

Youville Bus Terminal

Located at South West corner of Legendre and Henri Julien Streets on property owned by The Montreal Transportation Commission.

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Concrete	185	cu.yd.	\$ 45.00	\$ 8,325
Structural Steel	68	ton	275.00	18,700
Terrazzo Floor	4,730	sq.ft.	0.60	2,838
Terrazzo Base	265	lin.ft.	1.00	265
Cement Floor-Plain	1,335	sq.ft.	0.35	467
Cement Base-Plain	240	lin.ft.	1.00	240
Station Wall Finish	820	sq.ft.	5.50	4,510
Station Wall Finish	565	sq.ft.	6.15	3,474
Hollow Tile	830	sq.ft.	1.10	913
Brick Work	57	1000	90.00	5,130
Pipe Railing	24	lin.ft.	4.00	96
Doors	13	each	100.00	1,300
Cashier Booth	1	each	1200.00	1,200
Structural Glass		L.S.		26,900
Suspended Ceiling	6,845	sq.ft.	3.00	20,535
Roofing	134	square	45.50	6,096
Heating		L.S.		5,200
Precast Roof Slabs	13,360	sq.ft.	0.60	8,016
Lighting		L.S.		<u>10,000</u>
	<b>Total</b>			<b>\$124,205</b>

ESTIMATED TOTAL COST  
OF ABOVE GROUND STATIONS

\$511,050

St. Catherine Street from Alwater Avenue to Glass Street

Remove 2' x 3' oval brick sewer and construct new 24" round concrete pipe sewer, including 4 manholes, 302 feet in length 3,040

Glass Street from St. Catherine Street to Esplanade Street

Remove portion of 2' x 3' oval brick sewer and construct 32 lin.ft. of 30" and 335 lin.ft. of 36" round concrete pipe sewer sections to an existing 4' circular brick sewer on Esplanade Street, including 2 manholes and 2 junction chambers 10,090

SUBWAY STRUCTURE

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers

Wood Avenue - North of Western Avenue

Remove existing 2' x 3' oval brick sewer, and replace with a new 30" round concrete pipe sewer 82 lin.ft., including 2 manholes \$ 1,860

Western Avenue - Between Wood and Atwater Avenues

Remove existing 2' x 3' oval brick sewer, and replace with a new 30" round concrete pipe sewer - 82 lin.ft., including 2 manholes 1,860

St. Catherine Street from Wood to Atwater Avenues

Retire 4' circular brick sewer and replace with a 24" round concrete pipe, including 4 manholes and one junction chamber, 855 lin.ft. 18,300

From Gladstone Avenue and St. Catherine Street to Tupper Street and Atwater Avenues

Construct a 4' circular reinforced concrete pipe sewer to replace a similar sized sewer on St. Catherine Street between Gladstone and Atwater Avenues and construct a 30" round concrete pipe connection from the 2' x 3' oval brick sewer to this new sewer on St. Catherine Street between Wood and Gladstone Avenues, including 2 junction chambers and 6 manholes - 1073 lin.ft. of 4' diameter and 126 ft. of 30" 68,220

Intersection of St. Catherine Street and Atwater Avenue

Remove existing 2' x 3' oval brick sewer on Atwater Avenue and construct a new 30" and 36" connection to the existing 4' circular sewer south of St. Catherine Street, including one manhole, 65 lin.ft. of 30" and 45 lin.ft. of 36" sewer 1,410

St. Catherine Street from Atwater Avenue to Closse Street

Remove 2' x 3' oval brick sewer and construct new 24" round concrete pipe sewer, including 4 manholes, 322 feet in length 3,040

Closse Street from St. Catherine Street to Essex Street

Remove portion of 2' x 3' oval brick sewer and construct 92 lin.ft. of 30" and 335 lin.ft. of 36" round concrete pipe connections to an existing 4' circular brick sewer on Essex Street, including 2 manholes and 2 junction chambers 15,690

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

St. Catherine Street - Closse Street to Tower Street - North Side

Remove 2' x 3' oval brick sewer and construct 48" round concrete pipe with 30" concrete pipe connections to 2' x 3' oval brick sewers on Chomey, Du Fort, and Tower Streets, including 7 manholes, 1080 lin.ft. of 48", and 60 lin.ft. of 30" round concrete pipe \$ 53,000

St. Catherine Street - Closse to St. Mathieu Streets - South Side

Construct 24" round concrete pipe sewer, 1760 feet in length, including 6 manholes and 1 junction chamber 52,340

St. Catherine Street - Tower to Stanley Streets - North side

Remove existing 2' x 3' oval brick sewer. Construct new sewer, including 22 manholes and 2 junction chambers together with connection to existing sewers on St. Mathieu, St. Marc, Pierce, McKay, Bishop, Crescent, Mountain, and Drummond Streets as follows: 100 lin.ft. of 24"; 130 lin.ft. of 30"; 525 lin.ft. of 36"; and, 1882 lin.ft. of 42" round concrete pipe. Also 140 lin.ft. of 2' x 3' concrete box sewer at Guy Street 149,100

St. Catherine Street - From St. Mathieu Street to Guy Street South Side

Construct 620 lin.ft. of 24" concrete pipe sewer, including 6 manholes 17,120

St. Catherine Street - From Guy Street to McKay Street - South Side

Construct 302 lin.ft. of 18" concrete pipe sewer, including 2 manholes 7,940

St. Catherine Street - From McKay Street to Bishop Street - South Side

Construct 298 lin.ft. of 18" concrete pipe sewer, including 2 manholes 7,320

St. Catherine Street - From Bishop Street to Mountain Street - South Side

Construct 560 lin.ft. of 24" concrete pipe sewer, including 4 manholes 16,920

St. Catherine Street - From Mountain Street to Stanley Street - South Side

Construct 298 lin.ft. of 24" and 170 lin.ft. of 18" concrete sewer, including 1 junction chamber and 2 manholes 12,850

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

Stanley Street - From North of St. Catherine Street to Dorchester Street

Remove 2' x 3' oval brick sewer and construct 778 lin.ft. of 48" and 228 lin.ft. of 30" concrete pipe sewer, including 1 junction chamber and 4 manholes \$ 38,890

Peel Street - From North of St. Catherine Street to Cypress Street

Remove 2' x 3' and 2'8" x 4' oval brick sewer. Construct 300 lin.ft. of 30" and 523 lin.ft. of 42" round concrete pipe sewer, including 8 manholes 29,810

Windsor Street - South of Dorchester Street

Retire in place 295 lin.ft. of 2'8" x 4' oval brick sewer. Construct 302 lin.ft. of 42 lin.ft. of 18" concrete pipe sewer, including 4 manholes 16,550

Intersection of Osborne and Cathedrale Streets

Remove 100 lin.ft. of 3' x 4' oval brick sewer and 100 lin.ft. of 12" sewer. Construct 100 lin.ft. of 30" and 85 lin.ft. of 18" concrete pipe sewer, including 3 manholes 3,000

St. Cecile to St. Antoine Streets (on North Side of Subway)

Construct new 2' x 3' rectangular concrete box sewer 290 feet long - including 3 manholes 10,660

St. James Street - Vicinity of Inspector Street

Remove 100 lin.ft. of 6' diameter brick sewer at St. James and St. Cecile Streets and 1130 lin.ft. of 4' x 6' oval brick sewer from St. Cecile and St. James Streets to Petite St. Antoine and St. Antoine Streets. Construct 8' x 6' rectangular concrete sewer on St. Cecile and St. Antoine Streets, including 2 junction chambers and 9 manholes - 1130 lin.ft. 250,000

Inspector Street from St. Antoine Street to St. James Street

Remove existing 2'0" circular reinforced concrete sewer. Construct new 24" reinforced concrete pipe sewer crossing on top of the structure near St. James Street; including 2 manholes - 318 lin.ft. 8,310

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

Victoria Square Station at McGill Street

Construct three-barrel inverted siphon, including connection to existing sewer, 20 lin.ft. of 6' reinforced concrete pipe, 8 manholes and siphon \$ 35,650

On St. James Street - South Side - From Inspector Street to McGill Street

Construct new reinforced concrete pipe sewers: 296 lin.ft. of 18"; 417 lin.ft. of 24"; 418 lin.ft. of 30"; and 100 lin.ft. of 42", including 7 manholes and 1 junction chamber. Pave the invert of part of the existing 6'0" collector on St. James Street, in order to reverse the flow 42,940

St. James Street - North Side - From Inspector Street to McGill Street

Remove existing 2' x 3' oval brick sewer, Construct new reinforced concrete pipe sewer: 812 lin.ft. of 24"; 58 lin.ft. of 30"; and 192 lin.ft. of 48", including 2 junction chambers and 4 manholes 35,270

McGill Street - From St. James Street to St. Paul Street

Remove 915' of existing 6' diameter brick sewer. Construct 6' x 6' reinforced concrete box sewer 915' in length, including 5 manholes 152,220

On St. James Street - North Side - From St. François-Xavier to McGill Streets

Construct new reinforced concrete pipe sewers: 500 lin.ft. of 18" and 518 lin.ft. of 24", including 3 manholes 31,850

On St. James Street - South Side - From McGill Street to Place d'Armes Hill

Remove 1580 lin.ft. of existing 2' x 3' oval brick sewer. Construct new reinforced concrete pipe sewers: 755 lin.ft. of 18"; 757 lin.ft. of 24"; and 66 lin.ft. of 30", including 6 manholes, 1 junction chamber, and 2 drop manholes 52,400

On Place d'Armes - West Side

Remove 200 lin.ft. of existing 12" pipe. Construct new 18" reinforced concrete pipe sewer, including 2 manholes - 140 lin.ft. 3,980

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

Place d'Armes Hill - St. James Street to Craig Street

Remove existing 4' brick sewer. (By-pass from Commissioner Street Pumping Station) Construct new reinforced concrete pipe sewer: 396 lin.ft. of 48", including 3 manholes and 1 junction chamber \$ 27,050

St. James Street - North Side - From half block West of St. Lawrence Boulevard to Place d'Armes Hill and Place d'Armes Hill from St. James Street to Craig Street

Remove 240 lin.ft. of existing 12" sewer. Construct new 24" reinforced concrete pipe sewer, including 3 manholes and 1 junction chamber - 530 lin.ft. 17,870

St. James Street - South Side - From Place d'Armes Hill to East of St. Lawrence Boulevard

Construct new reinforced concrete pipe sewer, including 4 manholes - 773 lin.ft. of 24" 18,890

On St. James Street - North Side - Connecting to St. Lawrence Boulevard Sewer

Remove 470 lin.ft. of existing 2' brick sewer. Construct new reinforced concrete pipe sewers: 418 lin.ft. of 24" and 127 lin.ft. of 18", including 2 manholes and 2 junction chambers 16,770

On St. Lawrence Boulevard,- From South of St. James Street to Craig Street

Remove 170 lin.ft. of existing 2' x 3' oval brick sewer and 110 lin.ft. of existing 15" circular sewer. Construct new reinforced concrete pipe sewers: 170 lin.ft. of 30" and 108 lin.ft. of 18", including 2 manholes and 1 drop manhole 8,310

Craig Street - From St. Denis Street to Gosford Street

Pave invert of the existing 8'0" circular brick trunk sewer on Craig Street in order to reverse the flow into the diverted box sewer on Craig Street - 270 lin.ft. of 2'0" average thickness. Construct by tunneling, connection of reinforced concrete pipe at junction, 88 lin.ft. of 30", including 2 manholes 5,150

Craig Street - Trunk Sewer Relocation - on Gosford, Champ de Mars and Berri Streets, Crossing under the Structure at St. Louis Street

Construct new 8' x 6' reinforced concrete sewer: 1590 lin.ft., including 7 manholes and 1 junction chamber 278,540

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

At St. Louis and Gosford Streets

Remove 150 lin.ft. of existing oval 2' x 3' brick sewer.  
Construct connection from the 2' x 3' sewer in St. Louis  
Street to new reinforced concrete trunk sewer in Gosford  
Street - 110 lin.ft. of 30" reinforced concrete pipe,  
including 1 manhole and 1 junction chamber \$ 4,620

On St. Denis Street - East Side - From Viger Square to Craig Street

Remove 270 lin.ft. of existing oval 2' x 3' brick sewer.  
Construct new reinforced concrete pipe sewer: 178 lin.ft.  
of 18" and 78 lin.ft. of 24", including 1 manhole and 1  
drop manhole 6,720

On St. Denis Street - West Side - From Viger Square to Craig Street

Construct new reinforced concrete pipe: 142 lin.ft. of 18" and  
202 lin.ft. of 24", including 1 manhole 7,230

On St. Denis Street - East Side - From Viger Square to Dorchester  
Street

Remove 850 lin.ft. of existing 2' x 3' oval brick sewer.  
Construct new reinforced concrete pipe sewer: 37 lin.ft. of  
30", 339 lin.ft. of 24", and 285 lin.ft. of 18", including 2  
manholes 24,870

On St. Denis Street - West Side - From Viger Square to Dorchester  
Street

Construct new reinforced concrete pipe sewer: 300 lin.ft. of 18",  
33 lin.ft. of 30", and 338 lin.ft. of 24", including 4  
manholes and 1 junction chamber 18,760

On St. Denis Street - From Dorchester Street to Ontario Street

Remove 950 lin.ft. of existing 2' x 3' oval brick sewer and  
1230 lin.ft. of 2' circular sewer. Construct new reinforced  
concrete pipe sewer on top of the structure: 1057 lin.ft.  
of 24" and 1203 lin.ft. of 30", reinforced concrete pipe,  
including 12 manholes 30,450

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

On St. Denis Street - Center of the Street - North of Ontario Street

Remove 278 lin.ft. of existing 2' x 3' oval brick sewer.  
Construct new reinforced concrete pipe sewer: 278 lin.ft. of  
24", including 2 manholes and 1 junction chamber \$ 8,650

On St. Denis Street - East and West Sides - North of Ontario Street

Construct new reinforced concrete pipe sewer 385 lin.ft. of  
18", including 1 junction chamber 14,000

St. Catherine Street 5'0" Circular Trunk Sewer Relocated on  
Sanguinet, Dorchester, St. Denis, and Lagauchetiere Streets

- Remove:
- a) Existing 2' x 3' oval brick sewer on Sanguinet Street from St. Catherine Street to Dorchester Street: 700 lin.ft.
  - b) Existing 2' x 3' oval brick sewer on Dorchester Street from Sanguinet Street to St. Denis Street and from St. Hubert Street to Amherst Street: 1180 lin.ft.
  - c) Existing 2'0" pipe sewer on Lagauchetiere Street from St. Denis Street to Berri Street and from Labelle Street to St. Hubert Street: 500 lin.ft.
  - d) Existing 2' pipe sewer on St. Hubert Street from Lagauchetiere Street to Dorchester Street: 350 lin.ft.

Construct: New reinforced concrete 5'0" x 5'0" box sewer from St. Catherine and Sanguinet Streets to Amherst and Dorchester Streets on the following streets: Sanguinet, Dorchester, St. Denis (west side of structure), Lagauchetiere, St. Hubert, and Dorchester, including new connections to tributaries, including 13 manholes, 3 junction chambers, and 1 drop manhole 378,900

De Montigny from St. Denis Street to St. Elizabeth Street

Remove 620 lin.ft. of existing 2' x 3' brick sewer. Construct new 30" reinforced concrete pipe sewer 650 lin.ft., including 4 manholes 29,250

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

On St. Catherine Street from St. Denis Street to St. Elizabeth Street

Pave invert of the existing 5'0" circular brick trunk sewer in order to reverse the flow into the relocated box sewer on Sanguinet Street: 260 lin. ft. of 2'0" average depth.

Construct connection of reinforced concrete pipe: 85 lin. ft. of 36", including 1 manhole

\$ 8,870

Ontario Street at St. Denis Street

Construct reinforced concrete inverted siphon: 110 lin. ft., 13 feet deep triple barrel type, including 40' of 6'0" circular reinforced concrete pipe used as connections at both ends

20,800

Ontario Street from St. Denis Street to East of Berri Street

Remove 755 lin. ft. of existing 4' x 6' oval brick sewer.  
Construct new reinforced concrete pipe sewer: 645 lin. ft. of 72", including 3 manholes

73,510

St. Louis Square and Cherrier Street Sewer

Relocation on Malines Street and Berri Street  
Remove 155 lin. ft. of existing 4'0" circular brick sewer  
Construct new reinforced concrete sewer on Malines and Berri Streets joining existing sewer on Cherrier Street at Berri Street: 782 lin. ft. of 4', including 4 manholes and 1 junction chamber

47,960

St. Denis Street from Cherrier Station to Roy Street Sewer

Remove 950 lin. ft. of existing 2' x 3' oval brick sewer.  
Construct new reinforced concrete pipe sewer: 663 lin. ft. of 30", including 4 manholes

6,960

Roy Street trunk sewer from Laval and Roy Streets to St. Denis Street 400' north of Roy Street

Remove 1057 lin. ft. of existing 4' 0" circular brick sewer  
Construct new reinforced concrete pipe sewer: 1057 lin. ft. of 4'0", including 4 manholes and 4 junction chambers

60,330

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

Drolet and Henri Julien Streets in the vicinity of Roy Street

Remove 690 lin. ft. of existing 2' X 3' oval brick sewer  
Construct new reinforced concrete pipe sewer: 690 lin. ft.  
of 30", including 4 manholes \$ 27,200

St. Denis Street - West Side - From 250' south of Duluth Street  
to Roy Street

Construct new reinforced concrete pipe sewer: 765 lin. ft.  
of 24", including 4 manholes 26,830

St. Denis Street - West Side - From Marie-Anne Street to South  
of Duluth Street

Construct new reinforced concrete pipe sewer: 359 lin. ft.  
of 18" and 1570 lin. ft. of 24", including 9 manholes 47,360

St. Denis Street - East Side - From Mount-Royal Avenue to  
Roy Street Collector

Remove 2600 lin. ft. of existing 2' X 3' oval brick sewer  
Construct new reinforced concrete pipe sewer: 53 lin. ft.  
of 36"; 1212 lin. ft. of 30"; 1434 lin. ft. of 24", and  
30 lin. ft. of 18", including 14 manholes and 1 junction  
chamber 76,640

Mount Royal Avenue - From Drolet Street to Berri Street

Remove 310 lin. ft. of existing 2' X 3' oval brick sewer  
and 685 lin. ft. of 5' 0" circular brick sewer  
Construct new reinforced concrete pipe sewer:  
a) in replacement of 2' X 3' sewer: 310 lin. ft. of  
36", including 1 manhole and 1 drop manhole  
b) in replacement of 5' 0" sewer: 145 lin. ft. of  
60" and 490 lin. ft. of 72", including 3 manholes 94,120

St. Denis Street - North of Mount Royal Avenue

Remove 555 lin. ft. of existing 2' X 3' oval brick  
sewer  
Construct new 36" reinforced concrete pipe sewer,  
including 2 manholes : 568 lin. ft. 25,930

VI -- PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

St. Joseph Boulevard - From De Grandpré Street to Resther Street

Remove 641 lin. ft. of existing 4' 0" circular brick sewer  
Construct new reinforced concrete pipe sewer: 641 lin. ft.  
of 48", including 6 manholes \$ 60,820

St. Denis Street - North of DeFleurimont Street

Remove 440 lin. ft. of existing 2' X 3' oval brick sewer  
Construct new reinforced concrete pipe sewer: 445 lin. ft.  
of 30", including 2 manholes 15,350

St. Denis Street at Beaubien Station

Remove 565 lin. ft. of existing 2' X 3' oval brick sewer  
Construct new 36" reinforced concrete pipe sewer: 565 feet  
in length, including 2 manholes 26,160

St. Denis Street at Jean Talon Street

Remove 668 lin. ft. of existing 2' X 3' oval brick sewer  
and 170 lin. ft. of 15" round pipe sewer  
Construct new reinforced concrete pipe sewer: 668 lin.  
ft. of 30" on St. Denis Street from Jean Talon Street  
to Belanger Street, including 3 manholes and one junction  
chamber; 100 lin. ft. of 18"; and 65 lin. ft. of 24",  
including 3 manholes 26,880

St. Denis Street at Villeray Station

Remove 820 lin. ft. of existing 2' X 3' oval brick sewer on  
St. Denis Street; 125 lin. ft. of 15" round pipe sewer on  
Faillon Street; 190 lin. ft. of 15" round pipe sewer on  
Gounod Street  
Construct: new reinforced concrete pipe sewer on St. Denis  
from Villeray to Faillon; on Faillon Street from St. Denis  
to Berri; on Berri Street from Faillon to Gounod; on  
Gounod Street from Berri to St. Denis: 1987 lin. ft. of 30" 131,620

Cremazie Street - DeGaspé Street to Berri Street

Remove 170 lin. ft. of existing 4' diameter brick sewer  
Construct 972 lin. ft. of 48" diameter reinforced concrete  
pipe sewer flowing into new 5' X 6' reinforced concrete  
box sewer on Berri Street, including 6 manholes 61,690

VI - PUBLIC UTILITIES, Maintenance and Restoration

Sewers--Continued

Berri Street and Emile Journault Street and along North Side of structure and under projected Emile Journault Street to Henri Julien Street

Construct 1051 lin. ft. of 3' X 2' concrete box sewer and 920 lin. ft. of 42" diameter reinforced concrete pipe sewer, including 10 manholes and 1 junction chamber \$ 120,330

Berri Street and Emile Journault Street - (dropping into 6' St. Denis Street collector)

Construct 1362 lin. ft. of 5' X 6' reinforced concrete box sewer, including 6 manholes and 2 junction chambers 100,780

Henri-Julien Street and Legendre Street (off-street) (along subway)

Construct 745 lin. ft. of 2' X 3' reinforced concrete box sewer and 500 lin. ft. of 4' X 2' reinforced concrete box sewer, including 6 manholes and 1 junction chamber 72,610

Temporary Fluming of Sewer during construction. Use welded corrugated steel pipe

6,763 lin. ft. of 18" 434 lin. ft.  
 6,773 lin. ft. of 24" 784 lin. ft.  
 1,188 lin. ft. of 30" 1,188 lin. ft.  
 3,572 lin. ft. of 36" 272,530

Estimated cost \$ 3,439,810

Inspection by Department of Public Works (5%) 171,990

ESTIMATED TOTAL COST OF SEWERS MAINTENANCE AND RESTORATION \$ 3,611,800

St. Catherine Street - West of Abwater Avenue

Existing 10" cast iron water main to be supported under the Jack; 114 lin. ft. 1,570

SUBWAY STRUCTURE

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water

On St. Catherine Street - Atwater Avenue to Peel Street

Existing 24" cast iron water main passing under Western Square to be relocated to clear the structure at Atwater Station and to be supported under the deck from Closse Street to Peel Street.

Length supported: 4,005 lin. ft.

Length rebuilt: 2,187 lin. ft.

including valve chambers, valves, fittings, house connections and all work incidental thereto.

\$ 90,990

Existing 24" cast iron water main (North of the one described above) passing under Western Square to be relocated to clear structure at Atwater Station and to be supported under the deck from Closse Street to Peel Street.

Length supported: 4,080 lin. ft.

Length rebuilt: 2,285 lin. ft.

including valve chambers, valves, fittings, house connections and all work incidental thereto.

94,670

Existing 12" H.P. cast iron water main to be partly rebuilt to clear the top of the structure and to be supported under the deck from Atwater Avenue to Peel Street.

Length supported: 4,434 lin. ft.

Length rebuilt: 784 lin. ft.

including valve chambers, valves, fittings and all work incidental thereto.

44,700

Existing 12" cast iron water main to be partly rebuilt to clear the top of the structure and to be supported under the deck from Atwater Avenue to Peel Street.

Length supported: 4,495 lin. ft.

Length rebuilt: 3,663 lin. ft.

including valve chambers, valves, fittings and all work incidental thereto.

64,260

On Atwater Avenue crossing St. Catherine Street

Support and maintain existing water mains under temporary deck: 98 lin. ft. of 10"; 15 lin. ft. of 12"; 98 lin. ft. of 30"; and 98 lin. ft. of 36" cast iron pipe and 196 lin. ft. of 48" reinforced concrete pipe, including restoration of valve chambers

37,020

St. Catherine Street - West of Atwater Avenue

Existing 10" cast iron water main to be supported under the deck: 119 lin. ft.

1,570

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water--Continued

On Wood Avenue crossing the structure

Existing 6" cast iron water main to be supported under the deck: 70 lin. ft. \$ 600

St. Catherine Street - St. Marc Street to St. Mathieu Street

Existing 6" cast iron water main to be supported under temporary deck: 338 lin. ft. including restoration of valve chambers and work incidental thereto. 1,940

On Closse Street crossing St. Catherine Street

Existing 8" cast iron water main to be partly rebuilt and to be supported under the deck.  
Length supported: 95 lin. ft.  
Length rebuilt: 116 lin. ft.  
including valve chambers, fittings and all work incidental thereto. 1,420

On Chomedey Street crossing St. Catherine Street

Existing 8" cast iron water main to be supported under the deck: 26 lin. ft. 220

On Du Fort Street crossing St. Catherine Street

Existing 8" cast iron water main to be supported under the deck: 35 lin. ft. 290

On St. Marc Street crossing St. Catherine Street

Existing 8" cast iron water main to be supported under the deck: 35 lin. ft. 290

On St. Mathieu Street crossing St. Catherine Street

Existing 8" cast iron water main to be partly rebuilt and to be supported under the deck.  
Length supported: 35 lin. ft.  
Length rebuilt: 60 lin. ft. 730

On St. Mathieu Street crossing St. Catherine Street

Existing 6" H.P. water main to be supported under the deck: 27 lin. ft. 220

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water--Continued

St. Catherine Street - North Side - East of St. Mathieu Street to Guy Street

Existing 6" cast iron water main to be partly rebuilt and to be supported under the deck.  
 Length supported: 495 lin. ft.  
 Length rebuilt: 569 lin. ft.  
 including valve chambers, valves, fittings and all work incidental thereto. \$ 5,040

St. Catherine Street - Guy Street to Stanley Street

Existing 6" cast iron water main to be rebuilt and to be supported under the deck.  
 Length supported: 195 lin. ft.  
 Length rebuilt: 1121 lin. ft.  
 including valve chambers, valves, fittings, and all work incidental thereto. 12,320

Pierce Street crossing St. Catherine Street

Existing 8" cast iron water main to be supported under the deck: 33 lin. ft. including new connections and all work incidental thereto. 270

Guy Street crossing St. Catherine Street

Existing 8" cast iron water main to be supported under the deck: 47 lin. ft. including 1 valve 390

Guy Street crossing St. Catherine Street

Existing 12" cast iron water main to be supported under the deck: 113 lin. ft. 930

Guy Street crossing St. Catherine Street

Existing 6" cast iron main to be supported under the deck: 113 lin. ft. including 1 valve and all work incidental thereto. 930

Mackay Street crossing St. Catherine Street

Existing 8" cast iron water main to be supported under the deck: 35 lin. ft. 290

De la Montagne Street crossing St. Catherine Street

Existing 12" cast iron water main to be supported under the deck: 35 lin. ft. 290

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water--Continued

Stanley Street crossing the structure at St. Catherine Street

Existing 8" cast iron water main to be supported under the deck, including 1 valve and all incidental work:  
38 lin. ft. \$ 310

Dorchester Street crossing the structure at Dominion Square

Existing 12" H.P. water main to be supported under the deck.  
56 lin. ft. 410

Dorchester Street crossing the structure at Dominion Square

Existing 12" cast iron water main to be supported under the deck: 56 lin. ft. 460

Peel Street crossing the structure at Dominion Square

Existing 8" cast iron water main to be supported under the deck: 220 lin. ft. 1,820

Peel Street crossing the structure at Dominion Square

Existing 12" cast iron water main to be supported under the deck: 303 lin. ft. 2,500

Cathedrale Street interfering with the structure at Osborne Street

Existing 12" cast iron water main to be supported under the deck: 62 lin. ft. 510

Cathedrale Street interfering with the structure at Osborne Street

Existing 36" cast iron water main to be supported under the deck: 135 lin. ft. 16,200

On St. Cecile Street between Lagauchetiere Street and St. Antoine Street

Existing 8" cast iron water main to be cut and plugged on either side of structure, removing section of 95 lin. ft. 100

On St. Antoine Street between St. Cecile Street and Inspecteur Street

Existing 12" cast iron water main to be supported under the deck: 38 lin. ft. 310

Existing 30" cast iron water main to be supported under the deck: 38 lin. ft. 310

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water--Continued

On St. Antoine Street between St. Cecile Street and Inspecteur Street

Existing 6" cast iron water main to be supported under the deck: 38 lin. ft. \$ 310

On McGill Street crossing St. James Street

Existing 8" cast iron water main to be supported under the deck: 60 lin. ft. 500

On McGill Street crossing St. James Street

Existing 16" cast iron water main to be supported under the deck: 65 lin. ft. 540

On St. James Street - Intersection of McGill Street

Existing 4" water connections to be supported under the deck: 100 lin. ft. 830

On St. James Street - East of Inspecteur Street to McGill Street

Existing 24" cast iron water main to be supported and to be rebuilt.  
 Length supported: 538 lin. ft.  
 Length rebuilt: 1186 lin. ft. 42,820

On St. James Street - Victoria Square to Inspecteur Street

Existing 10" cast iron water main to be supported under the deck and to be partially rebuilt.  
 Length supported: 676 lin. ft.  
 Length rebuilt: 1114 lin. ft. 18,110

On St. James Street - Victoria Square to Inspecteur Street

Existing 24" cast iron water main to be supported and to be rebuilt.  
 Length supported: 340 lin. ft.  
 Length rebuilt: 1450 lin. ft. 56,370

On St. James Street - North Side - Victoria Square to St. Gabriel Street

Existing 10" cast iron water main to be supported under the deck and to be rebuilt:  
 Length supported: 830 lin. ft.  
 Length rebuilt: 2500 lin. ft. 38,960

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water--Continued

On St. James Street - South Side - St. Pierre Street to St. Gabriel Street

Existing 12", 6" and 4" cast iron water mains to be supported under the deck and to be rebuilt.  
 Length supported: 250 lin. ft.  
 Length rebuilt: 1232 lin. ft. \$ 14,380

On St. Gabriel Street - North of St. James Street

Existing 12" cast iron water main to be raised and supported: 37 lin. ft. 340

On Gosford Street - West Side - South of Craig Street

Existing 10" cast iron water main to be raised and supported under the deck: 35 lin. ft. 770

On Gosford Street - East Side - Intersection of St. Louis Street

Existing 6" cast iron water main to be supported under the deck: 37 lin. ft. including the 80 lin. ft. connection on St. Louis Street. 970

On Craig Street - West of St. Denis Street

Existing 12" cast iron water main to be supported under the deck: 58 lin. ft. 480

On St. Denis Street - Craig Street to Ontario Street

Existing 12" cast iron water main to be supported under the deck and to be rebuilt.  
 Length supported: 3335 lin. ft.  
 Length rebuilt: 400 lin. ft. 30,210

On St. Catherine Street - West of St. Denis Street

Existing 12" cast iron water main to be supported and to be rebuilt.  
 Length supported: 70 lin. ft.  
 Length rebuilt: 90 lin. ft. 1,370

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water--Continued

On Streets crossing St. Denis Street - Craig Street to Ontario Street

Existing cast iron water mains to be supported at:

Viger	(12")	32 lin. ft.
Lagauchetiere	( 8")	39 lin. ft.
Dorchester	(12")	39 lin. ft.
Place Christin	( 6")	19 lin. ft.
St. Catherine	( 6")	164 lin. ft.
Place Pasteur	( 4")	11 lin. ft.
DeMontigny	( 4")	39 lin. ft.
DeMontigny	(12")	39 lin. ft.
Emery	( 8")	12 lin. ft.
Emery	( 6")	27 lin. ft.
Ontario	(12")	37 lin. ft.
Ontario	( 6")	39 lin. ft.

Total length supported 497 lin. ft. \$ 3,110

On St. Denis Street - East Side - Cherrier Street to Mount Royal Avenue

Existing 12" cast iron water main to be supported under the deck and to be rebuilt:

Length supported: 2142 lin. ft.

Length rebuilt: 1492 lin. ft.

40,020

On St. Denis Street - Duluth Street to Rachel Street

Existing 12" cast iron water main to be supported under the deck. 658 lin. ft.

5,430

On Streets crossing St. Denis Street - Cherrier Street to Mount Royal Avenue

Existing cast iron water mains to be supported at the following streets:

Cherrier - south side	(12")	15 lin. ft.
Cherrier - center of	(12")	15 lin. ft.
Pine Avenue	( 8")	51 lin. ft.
Pine Avenue	(20")	48 lin. ft.
Roy	( 6")	39 lin. ft.
Duluth	(21")	39 lin. ft.
Rachel	(12")	39 lin. ft.
Marie-Anne	(16" H.L.)	39 lin. ft.
Mount Royal (south side)	(12")	30 lin. ft.
Mount Royal (north side)	(12")	80 lin. ft.

Total length supported 395 lin. ft. 3,260

VI - PUBLIC UTILITIES, Maintenance and Restoration

Water --Continued

On St. Denis Street - West Side - Cherrier Street to Pine Avenue

Existing 6" cast iron water pipe to be rebuilt and supported under the deck: 475 lin. ft. \$ 5,150

On St. Denis Street at St. Joseph Boulevard and on St. Joseph Boulevard crossing St. Denis Street

Existing 6" cast iron water main to be supported under the deck: 78 lin. ft. 640

On St. Denis Street at DeFleurimont Station

Existing 6" cast iron water main to be supported under the deck: 48 lin. ft. 400

On St. Denis Street and Beaubien Street at Beaubien Station

Existing 6" and 10" cast iron water mains to be supported under the deck: 103 lin. ft. 850

On St. Denis Street and Jean Talon Street at Jean Talon Station

Existing 8" and 6" cast iron water mains to be supported under the deck: 88 lin. ft. 730

On St. Denis Street at Villeray Station

Existing 8" cast iron water main to be supported under the deck: 48 lin. ft. 400

On St. Denis Street and on Cremazie Boulevard at Cremazie Station

Existing 8" cast iron water main on St. Denis Street and existing 12" cast iron water main on Cremazie Boulevard to be supported under the deck: 436 lin. ft. 3,600

On Legendre Street - Henri Julien Street to Berri Street

Existing 8" cast iron water main on Henri Julien Street (North of structure) to be fed by a new 8" cast iron water main on Legendre Street.  
Length to build: 1050 lin. ft. 16,380

Estimated Cost \$ 669,240

Inspection by Department of Public Works (5%) 33,460

ESTIMATED TOTAL COST OF WATER LINES MAINTENANCE AND RESTORATION \$ 702,700

SUBWAY STRUCTURE

VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas

Western Avenue - West of Atwater Avenue - 12" High Pressure Gas Mains

Construct temporary diversion along north side of structure and under lane west of Wood Avenue 1260 lin.ft. of 12" steel pipe \$ 17,800

Rebuild permanently on top of structure 70 lin.ft. of 12" cast iron pipe 1,090

Wood Avenue - North of Western Avenue - 4" Gas Mains

Construct temporary diversion on land west of Wood Avenue - 540 lin.ft. of 4" steel pipe 4,240

Remove existing 90 lin.ft. of 4" cast iron pipe

Rebuild permanently on top of structure 90 lin.ft. of 4" cast iron pipe 820

Atwater Avenue - Crossing St. Catherine Street

Construct and remove 100 lin.ft. of temporary 12" high pressure steel gas main including temporary support, drips, etc. 4,200

Construct 100 lin.ft. of permanent 12" cast iron gas main across the structure, including fittings, drips, etc. 1,390

St. Catherine Street - Atwater Avenue to St. Mathieu Street

Construct temporary diversions along building line on north and south sides of St. Catherine Street. Including fittings, joints, and incidental work - 2245 lin.ft. of 6" steel pipe 17,450

Rebuild permanently on top of structure 3898 lin.ft. of 6" cast iron pipe 27,390

Cut and cap during diversions, new house connections, etc. 6,420

Du Fort Street - Crossing St. Catherine Street - 10" Low Pressure Main

Construct temporary diversion on top of structure 75 lin.ft. of 10" steel pipe and protective timber box across the structure 3,000

Construct permanent 10" cast iron main on top of structure including drips, couplings, wye's, and incidental work 75 lin.ft. 960

VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. Catherine Street between St. Mathieu and Peel Streets

Construct and remove 2300 lin.ft. of 6" temporary steel pipe gas main on north side of St. Catherine Street	\$ 17,880
Construct 2300 lin.ft. of permanent 6" cast iron gas main on north side of St. Catherine Street after subway construction is completed. All fittings, drips, and incidental work are included	15,310
Construct and remove 2213 lin.ft. of temporary 6" steel pipe gas main on south side of St. Catherine Street	17,200
Construct 2132 lin.ft. of permanent 6" cast iron gas main on south side of St. Catherine Street. All fittings, drips, and incidental work are included	14,410
Cut and cap during diversions, temporary and permanent house connections for above temporary and permanent piping, including temporary boxing	9,410

Guy Street - Crossing St. Catherine Street

Construct and remove 150 lin.ft. of temporary 10" steel gas main including temporary support, drips, fittings, etc.	5,830
Construct 150 lin.ft. of permanent 10" cast iron gas main across the completed structure, including fittings, drips, and all incidental work	1,950

Stanley Street - Crossing St. Catherine Street

Construct and remove 80 lin.ft. of temporary 12" low pressure steel pipe gas main including valves, drips, fittings, and incidental work	3,950
Construct 80 lin.ft. of permanent 12" low pressure cast iron gas main with drips, valves, and all incidental work after subway construction is completed	1,140

By-pass from Stanley and St. Catherine Streets to St. Catherine and Metcalfe Streets, along Metcalfe Street to Metcalfe and Dorchester Streets

Construct new 6" permanent cast iron main from the 12" main on Stanley, east on St. Catherine Street, south on Metcalfe Street to feed 4" and 6" mains on Dorchester Street, 1385 lin.ft. including valves, drips, and all incidentals	12,540
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VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. Antoine Street - East of St. Cecile Street

Construct and remove 80 lin.ft. of 6" temporary steel gas main across excavation during construction, including all incidentals	\$ 1,780
Reconstruct 80 lin.ft. of permanent 6" cast iron main over completed structure, including all incidentals	620
Construct and remove 80 lin.ft. of 16" high pressure temporary steel pipe main including valves, drips, boxing, and other incidentals	6,500
Reconstruct 80 lin.ft. of permanent 16" high pressure cast iron gas main with all incidentals and house connections	1,330
Construct and remove 80 lin.ft. of 24" high pressure temporary steel pipe main including valves, drips, boxing, and other incidentals	13,830
Reconstruct 80 lin.ft. of permanent 24" high pressure cast iron gas main with all incidentals and house connections	4,250

Dominion Square Area - Peel and St. Catherine Streets to St. Antoine and St. Cecile Streets

Miscellaneous short runs of various size mains to be rebuilt after subway construction is completed including all incidentals - 155 lin.ft. of 2"; 134 lin.ft. of 3"; 268 lin.ft. of 4"; 353 lin.ft. of 6"; 347 lin.ft. of 12" cast iron pipe	9,800
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St. James Street from St. Cecile Street to Victoria Square

Construct and remove temporary 4" steel pipe main on south side of St. James Street, 904 feet in length including all incidentals	5,790
Construct and remove temporary 4" steel pipe main on north side of St. James Street, 1254 feet in length including all incidentals	8,030
Reconstruct 927 lin.ft. of permanent 6" cast iron main including all fittings, drips, and incidentals after completion of subway construction	6,170
Reconstruct 488 lin.ft. of permanent 20" cast iron main including fittings, drips, and all incidentals after subway structure has been constructed	10,600

VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. James Street from St. Cecile Street to Victoria Square--Continued

Construct, maintain and support, and remove 87 lin.ft. of 20" temporary steel main across construction area including boxing, valves, drips, etc.	\$ 9,330
Reconstruct 87 lin.ft. of permanent 20" cast iron gas main including all fittings and incidentals	1,810
Construct and remove 100 lin.ft. of temporary 12" high pressure steel gas main at Victoria Square, including valves, drips, support, boxing, and all incidentals	4,310
Reconstruct 100 lin.ft. of permanent 12" high pressure cast iron gas main at Victoria Square, including all incidentals	2,310

St. James Street from Victoria Square to Place d'Armes

Construct and remove temporary 4" steel pipe main 465 feet in length under Fortification Lane, including all valves, fittings, drips, etc.	3,580
Construct and remove 1052 lin.ft. of 4" temporary steel gas main including fittings, drips, and incidentals on north side of St. James Street	6,740
Construct and remove 1492 lin.ft. of 4" temporary steel gas main on south side of St. James Street including all fittings and incidentals	9,550
Construct and remove 137 lin.ft. of 3" temporary steel main on north side of St. James Street including all fittings and incidentals	790
Reconstruct 1606 lin.ft. of permanent 4" cast iron main on St. James Street including all incidentals	8,710
Reconstruct 137 lin.ft. of permanent 3" cast iron main on St. James Street including all incidentals	670
Reconstruct 1052 lin.ft. of permanent 4" cast iron main on St. James Street including all incidentals	5,690
Reconstruct 219 lin.ft. of permanent 4" cast iron main on St. James Street including all incidentals	1,210
Reconstruct 172 lin.ft. of permanent 4" cast iron main on St. James Street including all incidentals	950
Reconstruct house connections for above runs of pipe	2,150

VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. James Street from Victoria Square to Place d'Armes--Continued

Construct and remove 100 lin.ft. of temporary 8" steel pipe main across structure during construction at McGill Street including valves, drips, boxing, support, and incidentals	\$ 3,180
Reconstruct 610 lin.ft. of permanent 8" cast iron main, including incidentals, at McGill Street, after subway construction has been completed	900
Cut and plug various runs in this area	810
Miscellaneous short runs of various sizes to be rebuilt namely; 61 lin.ft. of 4"; and 68 lin.ft. of 6" cast iron pipe mains	920

Place d'Armes to St. Denis and Craig Streets

Construct and remove 374 lin.ft. of 3" temporary steel pipe main on the north side of St. James Street including fittings and incidentals	2,180
Construct and remove 716 lin.ft. of temporary 3" steel pipe main on the south side of St. James Street including fittings and incidentals	4,180
Reconstruct 1081 lin.ft. of permanent 3" cast iron gas main on the north and south sides of St. James Street including all fittings, drips, valves, and all incidental work	6,120
Construct, support and maintain, and remove 20" gas main across the excavation area on Craig Street, 90 feet in length. This includes all fittings, valves, and incidental work	10,140
Reconstruct 90 lin.ft. of permanent 20" cast iron gas main across the structure after construction is completed. This includes all fittings and incidental work	1,870
Miscellaneous short runs and various sizes to be rebuilt namely; 115 lin.ft. of 3"; 65 lin.ft. of 4"; 170 lin.ft. of 6" permanent cast iron gas main	2,290
Cut and capping both temporary and permanent mains of various sizes	1,040
Temporary and permanent changes to house connections in this same area	1,150

VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. Denis Street from Craig Street to Ontario Street

Construct and remove 3,050 lin.ft. of 4" temporary steel pipe gas main on the west side of St. Denis Street including all drips, support and maintenance, and incidental items	\$ 12,070
Construct and remove 3,015 lin.ft. of 4" temporary steel pipe gas main on the east side of St. Denis Street including all incidental items	11,930
Reconstruct 3,295 lin.ft. of 6" permanent cast iron gas main including drips, fittings, and incidental work	21,930
Reconstruct 3190 lin.ft. of permanent 6" cast iron gas main with the necessary drips, fittings, and other incidentals	21,230
Construct new 300 feet long by-pass in 20" cast iron gas main. This includes all fittings, drips, and other incidental items	6,860
Construct new 1710 feet long cast iron main 8" in diameter in Savoie Lane. This includes all necessary fittings, drips, and incidental work	18,020
Construct 1025 lin.ft. of 6" cast iron gas main on Berri Street, including all fittings, drips, and other incidentals	9,280
Construct 2820 lin.ft. of 18" cast iron main on two by-passes including all fittings, drips, valves, and other incidentals	57,340
Maintain and support 39 lin.ft. of 30" high pressure gas main across excavation area including 2 cuts and caps	1,790
House connections and connections to other main to be reconstructed within the limits of this area	7,220

St. Denis Street - Cherrier Street to Mount Royal Avenue

Construct and remove 3746 lin.ft. of 4" temporary steel gas main on the west side of St. Denis Street including all fittings, drips, and incidental items	15,720
Construct and remove 751 lin.ft. of 4" temporary steel pipe main on the east side of St. Denis Street including all fittings, drips, and incidental items	4,170
Construct and remove 830 lin.ft. of temporary 6" steel pipe main on the east side of St. Denis Street including all fittings, drips, and incidental items	4,840

VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. Denis Street - Cherrier Street to Mount Royal Avenue--Continued

Construct and remove 42 lin.ft. of temporary 12" steel pipe main at Pine Avenue including all fittings, drips, and incidentals	\$ 1,440
Construct and remove 60 lin.ft. of temporary 9" steel pipe main including all fittings, drips, and incidentals	1,110
Reconstruct 647 lin.ft. of permanent 12" cast iron gas main between Pine Avenue and Cherrier Street	8,510
Reconstruct 60 lin.ft. of permanent 9" cast iron gas main including fittings and all incidentals	350
Reconstruct 2213 lin.ft. of 4" permanent cast iron gas main including fittings, drips, and incidentals	11,570
Reconstruct 2445 lin.ft. of permanent 6" cast iron gas main including fittings, drips, and other incidental items	17,840
House and other connections within these limits	6,350

St. Denis Street from Bienville Street to Laurier Street

Construct 534 lin.ft. of temporary 8" steel pipe main including all fittings, drips, and incidental items	4,820
Reconstruct 156 lin.ft. of 6" permanent cast iron main including house connections, fittings, drips, and all incidental items	1,550
Reconstruct 210 lin.ft. of permanent 8" cast iron gas main with house connections, fittings, drips, and incidental items	2,210
Reconstruct 160 lin.ft. of permanent 4" cast iron gas main with house connections, fittings, drips, and incidental items	1,230

St. Denis Street from De Fleurimont Street to Beaubien Street

Construct and remove 340 lin.ft. of temporary 6" steel pipe gas main with temporary house connections including drips and all incidental items	1,930
Construct and remove 253 lin.ft. of temporary 16" steel pipe main with all house connections, fittings, drips, and incidental items	3,640
Reconstruct 296 lin.ft. of permanent 6" cast iron gas main including house connections, fittings, drips, and incidental items	2,910

VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. Denis Street from De Fleurimont Street to Beaubien Street--Continued

Construct 214 lin.ft. of permanent 16" cast iron gas main including house connections, fittings, drips, and all incidental items	\$ 4,270
Construct and remove 351 lin.ft. of temporary 6" steel pipe main near Beaubien Station including all fittings, drips, and incidental items	1,580
Construct and remove 248 lin.ft. of temporary 16" steel pipe main including all fittings, drips, and incidental items	3,310
Reconstruct 242 lin.ft. of permanent 6" cast iron main including house connections, all fittings, drips, and incidental items	2,210
Reconstruct 180 lin.ft. of permanent 16" cast iron main with house connections and all fittings, drips, and incidental items	3,260

St. Denis Street - Jean Talon Street to Villeray Street

Construct and remove 93 lin.ft. of temporary 6" steel pipe main including temporary house connections, all fittings, drips, and incidental items	520
Construct and remove 122 lin.ft. of temporary 16" steel pipe main including fittings, drips, and incidental items	1,630
Reconstruct 127 lin.ft. of permanent 16" cast iron gas main including fittings, drips, and incidental items	2,580
Construct 125 lin.ft. of permanent 4" cast iron gas main including all fittings, drips, and incidental items	970
Reconstruct 268 lin.ft. of permanent 6" cast iron gas main including all fittings, drips, and incidental items	2,640
Construct and remove 67 lin.ft. of temporary 4" steel pipe main at Villeray Station including all fittings, drips, and incidental items	520
Reconstruct 238 lin.ft. of permanent 6" cast iron gas main including house connections, fittings, drips, and incidental items	3,270

St. Denis Street from Villeray Street to Youville Yard

Reconstruct 1050 lin.ft. of permanent 6" cast iron main including fittings, drips, and other incidental items	9,500
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VI - PUBLIC UTILITIES, Maintenance and Restoration

Gas--Continued

St. Denis Street from Villeray Street to Youville Yard--Continued

Construct and remove 140 lin.ft. of temporary 12" steel pipe main including fittings, drips, and other incidental items \$ 1,210

Construct and remove 1186 lin.ft. of temporary 12" steel pipe main including fittings, drips, and other incidental items 10,270

Reconstruct 160 lin.ft. of permanent 12" cast iron main including all incidentals: 2178 feet of permanent 6" main with all incidentals; 582 lin.ft. of permanent 4" cast iron main with all incidentals 26,640

Remove and replace 1 police alarm box  
Remove and replace 2 poles and wall lateral braces  
Remove and replace 4 traffic signal poles  
Estimated Cost \$677,900

Inspection by Quebec Hydro Electric Commission Forces (5%) 33,900

South End of Dominion Square Station to South End of St. Catherine - De Montigny Station

ESTIMATED TOTAL COST OF GAS LINES MAINTENANCE AND RESTORATION \$711,800

Break out 6,471 lin. ft. of existing duct bank including manholes

Reconstruct 43 permanent manholes

Reconstruct 3 permanent transformer vaults

Reconstruct 4,091 lin. ft. of duct bank, varying from 1 to 33 ducts per bank

Remove and reinstall 29 street light, poles, and fire alarm poles

Remove and replace 3 poles and wall lateral braces

Remove and replace 7 traffic signal poles

Remove and replace 40 lin. ft. of street power returns

From South End of St. Catherine - De Montigny Station to South End of Mount Royal Station

Construct and remove 6 temporary wooden manholes

Construct and remove 1,167 lin. ft. of temporary wood duct

Break out 1,167 lin. ft. of existing duct bank including manholes

Reconstruct 9 permanent manholes

Reconstruct 3 permanent transformer vaults

Reconstruct 1,873 lin. ft. of duct bank, varying from 3 to 21 ducts per bank

VI - PUBLIC UTILITIES, SUBWAY STRUCTURE

VI - PUBLIC UTILITIES, Maintenance and Restoration

Electrical

West End of the Structure to South End of Dominion Square Station

- Construct and remove 14 temporary wooden manholes
- Construct and remove 3,808 lin. ft. of temporary wood duct
- Break out 12,085 lin. ft. of existing duct bank including manholes
- Reconstruct 76 permanent manholes
- Reconstruct 12,453 lin. ft. of duct bank, varying from 1 to 32 ducts per bank
- Remove and reinstall 27 street light, police, and fire alarm poles
- Remove and replace 1 police alarm box
- Remove and replace 2 poles and wall lateral braces
- Remove and replace 4 traffic signal poles
- Remove and replace 1 traffic signal pad

\$ 345,000

South End of Dominion Square Station to South End of St. Catherine - De Montigny Station

- Construct and remove 30 temporary wooden manholes
- Construct and remove 4,864 lin. ft. of temporary wood duct
- Break out 6,471 lin. ft. of existing duct bank including manholes
- Reconstruct 42 permanent manholes
- Reconstruct 2 transformer vaults
- Reconstruct 4,591 lin. ft. of duct bank, varying from 1 to 33 ducts per bank
- Remove and reinstall 69 street light, police, and fire alarm poles
- Remove and replace 2 poles and wall lateral braces
- Remove and replace 7 traffic signal poles
- Remove and replace 40 lin. ft. of streetcar power returns

192,860

From South End of St. Catherine - De Montigny Station to South End of Mount Royal Station

- Construct and remove 6 temporary wooden manholes
- Construct and remove 1,167 lin. ft. of temporary wood duct
- Break out 1,167 lin. ft. of existing duct bank including manholes
- Reconstruct 9 permanent manholes
- Reconstruct 3 permanent transformer vaults
- Reconstruct 1,673 lin. ft. of duct bank, varying from 3 to 21 ducts per bank

VI - PUBLIC UTILITIES, Maintenance and Restoration

Electrical--Continued

From South End of St. Catherine - De Montigny Station to South End of Mount Royal Station--Continued

Remove and reinstall 19 steel light, police, and fire alarm poles	
Remove and reinstall 1 pole and wall lateral brace	
Remove and reinstall 2 traffic signal poles	
Remove and reinstall 1 traffic signal pad	\$ 51,240

From South End of Mount Royal Station to North End of DeFleurimont Station

Construct 7 permanent manholes	\$ 133,870
Construct and remove 139 lin. ft. of temporary wood duct	
Break out 1,190 lin. ft. of existing duct bank including manholes	
Reconstruct 1,190 lin. ft. of duct bank, varying from 13 to 24 ducts per bank	
Remove and reinstall 9 steel light, police, and fire alarm poles	
Remove and reinstall 7 traffic signal poles	
Remove and reinstall 1 traffic signal pad	30,700

From North End of DeFleurimont Station to North End of Jean Talon Station

Construct and remove 84 lin. ft. of temporary wood duct	
Construct 4 permanent manholes	
Reconstruct 550 lin. ft. of duct bank, varying from 10 to 15 ducts per bank	
Remove and reinstall 9 steel light, police, and fire alarm poles	
Remove and reinstall 5 traffic signal poles	11,150

Estimated Cost	\$ 630,950
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Inspection by Electrical Commission of Montreal Forces (5%)	31,550
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<b>ESTIMATED TOTAL COST OF ELECTRICAL MAINTENANCE AND RESTORATION</b>	<b>\$ 662,500</b>
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SUBWAY STRUCTURE

VI - PUBLIC UTILITIES, Maintenance and Restoration

Telephone

From West End of the structure to South of Dominion Square Station

Construct and remove 17 temporary wooden manholes  
Construct 17 new manholes  
Break out existing duct runs and build temporary wooden duct banks of various sizes -- 5,603 lin. ft.  
Reconstruct new duct after subway construction has been completed -- 5,603 lin. ft.  
Includes estimate of Bell Telephone Company inspection charges

\$ 135,670

From South of Dominion Square Station to South End of St. Catherine - Demontigny Station

Construct and remove 4 temporary wooden manholes  
Construct 4 new manholes  
Break out existing duct runs and build temporary wooden duct runs of various sizes -- 1,571 lin. ft.  
Reconstruct new duct after subway construction has been completed -- 1,571 lin. ft.  
Includes estimate of Bell Telephone Company inspection charges

31,560

From South End of St. Catherine - De Montigny Station to South End of Mount Royal Station

Construct and remove 2 temporary wooden manholes  
Construct 2 new manholes  
Break out existing duct runs and build temporary wooden duct runs -- 523 lin. ft.  
Reconstruct new duct after subway construction has been completed -- 523 lin. ft.  
Includes estimate of Bell Telephone Company inspection charges

13,520

From South End of Mount Royal Station to North End of DeFleurimont Station

Construct and remove 1 temporary wooden manhole  
Construct 1 new manhole  
Break out existing duct runs and build temporary wooden duct banks of various sizes -- 104 lin. ft.  
Reconstruct new duct runs after subway construction has been completed -- 104 lin. ft.  
Includes estimate of Bell Telephone Company inspection charges

2,670

VI - PUBLIC UTILITIES, Maintenance and Restoration

Telephone--Continued

From North End of DeFleurimont Station to North End of Jean Talon Station

Break out existing duct runs and build temporary wooden duct -- 114 lin. ft.

Construct new duct runs after subway construction has been completed -- 114 lin. ft.

Includes estimate of Bell Telephone Company inspection charges

\$ 3,280

From North End of Jean Talon Station to South End of Cremazie Station

Break out existing duct runs and build temporary wooden duct -- 40 lin. ft.

Construct new duct runs after subway construction has been completed -- 40 lin. ft.

Includes estimate of Bell Telephone Company inspection charges

500

ESTIMATED TOTAL COST OF TELEPHONE LINES  
MAINTENANCE AND RESTORATION

\$ 187,200

SUMMARY

Sewers

\$ 3,611,800

Water

702,700

Gas

711,800

Electrical

662,500

Telephone

187,200

ESTIMATED TOTAL COST OF PUBLIC UTILITIES,  
MAINTENANCE AND RESTORATION

\$ 5,876,000

SUBWAY STRUCTURE

VII - UNDERPINNING ADJACENT STRUCTURES

St. Catherine Street

The Forum \$ 152,000

Closse Street to Du Fort Street  
 North Side 61,100  
 South Side 43,900

Du Fort Street to St. Marc Street  
 North Side 18,000  
 South Side 49,700

St. Marc Street to St. Mathieu Street  
 North Side 40,600  
 South Side 43,300

St. Mathieu Street to Guy Street  
 North Side 80,100  
 South Side 84,700

Guy Street to Crescent Street  
 North Side 65,300  
 South Side 96,100

Crescent Street to Drummond Street  
 North Side 18,700  
 South Side 53,500

Drummond Street to Stanley Street  
 North Side 38,000  
 South Side 48,600

Lindsay Building (Numbers 1112 to 1118) 100,000

Peel Street

Windsor Hotel 30,400

Cathedral Street

Archbishop's Palace 30,200

St. Antoine Street

Canadian Fairbanks - Morse Building 12,200

VII - UNDERPINNING ADJACENT STRUCTURES--Continued

St. James Street

Little Craig Street to Victoria Square  
North Side \$ 92,300

St. David Street to McGill Street  
South Side 60,900

McGill Street to St. François Xavier Street  
North Side 72,400  
South Side 151,300

St. François Xavier Street to Place d'Armes  
North Side 35,800  
South Side 32,900

Place d'Armes to St. Gabriel Street  
North Side 150,000  
South Side 111,800

Court House Annex 214,000

St. Denis Street

Viger Street to Lagachetiere Street  
West Side 33,500  
East Side 46,700

Lagachetiere Street to St. Catherine Street  
West Side 148,500  
East Side 173,500

Intersection St. Denis Street and St. Catherine Street 375,000

Place Pasteur to Emery Street  
West Side 75,300

De Montigny Street to Emery Street  
East Side 77,800

Emery Street to Ontario Street  
West Side 23,900  
East Side 118,800

Cherrier Street to Roy Street  
West Side 8,000

ESTIMATED TOTAL COST OF UNDERPINNING  
ADJACENT STRUCTURES \$ 3,068,800

SUBWAY STRUCTURE

VIII - STREET CAR TRACK RESTORATION

St. Catherine Street and Atwater Avenue

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent tracks after completion of construction

Double track - on tangent -- 180 lin. ft.

Double track - on curve -- 120 lin. ft.

\$ 5,610

Guy Street across the subway structure

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent double tracks after completion of construction

Double track - on tangent -- 55 lin. ft.

1,030

Peel Street across the subway structure South of St. Catherine Street

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent double tracks after completion of construction

Double track - on tangent -- 250 lin. ft.

4,670

Dorchester Street across the subway structure

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent double tracks after completion of construction

Double track - on tangent -- 65 lin. ft.

1,210

St. Antoine Street across the subway structure

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent double tracks after completion of construction

Double track - on tangent -- 45 lin. ft.

840

St. James Street - Inspector Street to West side of Victoria Square

Remove existing streetcar tracks including turnouts and diamond; lay and remove temporary tracks, turnouts and diamond on temporary timber deck; relay permanent track, turnouts and diamond after completion of construction

Double track - on tangent -- 855 lin ft

Turnouts 2

Diamond 1

18,610

ESTIMATED TOTAL COST OF STREETCAR TRACK RESTORATION

VIII - STREETCAR TRACK RESTORATION--Continued

St. James Street - Victoria Square

Remove existing streetcar tracks, including turnouts and diamonds; lay and remove temporary track, turnouts and diamonds on temporary timber deck; relay permanent track, turnouts and diamonds after completion of construction

Double track - on tangent --	405 lin. ft.	
Turnouts	6	
Diamonds	4	\$ 19,900

Craig Street across the subway structure near St. Denis Street

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent track after completion of construction

Double track - on tangent --	55 lin. ft.	1,030
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St. Catherine Street across the subway structure

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent track after completion of construction

Double track - on tangent --	170 lin. ft.	3,180
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Ontario Street across the subway structure

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent track after completion of construction

Double track - on tangent --	40 lin. ft.	750
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Mount Royal Avenue across the subway structure

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent track after completion of construction

Double track - on tangent --	15 lin. ft.	280
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Cremazie Boulevard across the subway structure

Remove existing streetcar tracks; lay and remove temporary tracks on temporary timber deck; relay permanent track after completion of construction

Double track - on tangent --	55 lin. ft.	1,030
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ESTIMATED TOTAL COST OF STREETCAR TRACK RESTORATION

\$ 58,140

SUBWAY STRUCTURE

IX - PAVING - Parking Areas and Service Roads

Atwater Bus Terminal

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Pavement	4,220	sq.yd.	\$ 3.50	\$ 14,770
Curb and Gutter	2,990	lin.ft.	3.00	8,970
General Grading	4,225	sq.yd.	2.00	8,450
Area Drainage	-	L.S.	-	28,955
Area Lighting	10	each	425.00	4,250

Total

\$ 65,395

Western Square Bus Station

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Pavement	110	sq.yd.	\$ 3.50	\$ 385
Sidewalk	50	sq.yd.	4.50	225
Curb and Gutter	995	lin.ft.	3.00	2,985
General Grading	215	sq.yd.	2.00	430
Area Drainage	-	L.S.	-	6,375
Area Lighting	2	each	425.00	850
Fence Removal	390	lin.ft.	1.00	390

Total

\$ 11,640

De Fleurimont Bus Station

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Pavement	3,555	sq.yd.	\$ 3.50	\$ 12,443
Sidewalk	55	sq.yd.	4.50	247
Curb and Gutter	1,840	lin.ft.	3.00	5,520
General Grading	9,225	sq.yd.	2.00	18,450
Area Drainage	-	L.S.	-	12,570
Fencing	520	lin.ft.	6.00	3,120
Area Lighting	2	each	425.00	850
Track Removal	4,050	lin.ft.	2.10	8,505
Platform Removal	210	sq.yd.	6.00	1,260
Scale Removal	1	each	3,850.00	3,850

Total

\$ 66,815

IX - PAVING - Parking Areas and Service Roads--Continued

Youville Bus Terminal (Service Roads)

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Pavement	4,890	sq.yd.	\$ 3.50	\$ 17,115
Sidewalk	360	sq.yd.	4.50	1,620
Curb and Gutter	3,580	lin.ft.	3.00	10,740
Area Drainage	-	L.S.	-	19,240
Fencing	980	lin.ft.	6.00	5,880
Area Lighting	2	each	425.00	850
<b>Total</b>				<b>\$ 55,445</b>

Youville Bus Terminal (Parking Areas)

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Pavement	11,200	sq.yd.	\$ 3.50	\$ 39,200
General Grading	11,200	sq.yd.	2.00	22,400
Area Drainage	-	L.S.	-	18,455
Fencing	1,250	lin.ft.	6.00	7,500
Area Lighting	2	each	425.00	850
Gate House	2	each	1200.00	2,400
<b>Total</b>				<b>\$ 90,805</b>

**ESTIMATED TOTAL COST OF PAVING - PARKING AREAS  
AND SERVICE ROADS**

**\$290,100**

SUBWAY STRUCTURE

X - VENTILATION

The following tabulation shows the estimated cost of equipment required for ventilating the initial subway.

Between West End of the structure and Atwater Station

- 5 - Sets of dampers with 1/4 H.P. electric motors, controls, and appurtenances \$ 8,850

Between Atwater and Guy Stations

- 2 - Tubeaxial fans, 64,400 cubic feet per minute, complete with 40 H. P. electric motors, starters, controls, and appurtenances 10,600

- 4 - Sets of dampers with 1/4 H. P. electric motors, and appurtenances 7,080

Between Guy and Dominion Square Stations

- 2 - Tubeaxial fans, 64,400 cubic feet per minute, complete with 40 H.P. electric motors, starters, controls and appurtenances 10,600

- 4 - Sets of dampers with 1/4 H.P. electric motors, controls and appurtenances 7,080

Between Dominion Square and Victoria Square Stations

- 2 - Tubeaxial fans, 64,400 cubic feet per minute, complete with 40 H.P. electric motors, starters, controls and appurtenances. 10,600

- 6 - Sets of dampers with 1/4 H.P. electric motors, controls and appurtenances 10,620

Between Victoria Square and Place D'Armes Stations

- 2 - Tubeaxial fans, 38,900 cubic feet per minute, complete with motors, starters, controls and appurtenances 8,680

Between Place D'Armes and Champ de Mars Stations

- 2 - Tubeaxial fans, 38,900 cubic feet per minute, complete with 20 H.P. electric motors, starters, controls and appurtenances 8,680

X - VENTILATION--Continued

Between Champ de Mars and St. Catherine-De Montigny Stations

- |   |          |
|---|----------|
| 2 - Tubeaxial fans, 38,900 cubic feet per minute<br>complete with 20 H.P. electric motors, starters<br>controls and appurtenances | \$ 8,680 |
| 4 - Sets of dampers with 1/4 H.P. electric motors,<br>controls and appurtenances  | 7,080    |

Between St. Catherine - DeMontigny and Cherrier Stations

- |   |        |
|---|--------|
| 2 - Tubeaxial fans, 64,400 cubic feet per minute,<br>complete with 40 H.P. electric motors, starters,<br>controls and appurtenances | 10,600 |
| 6 - Sets of dampers with 1/4 H.P. electric motors,<br>controls and appurtenances  | 10,620 |

Between Cherrier and Mount Royal Stations

- |   |        |
|---|--------|
| 2 - Tubeaxial fans, 64,400 cubic feet per minute,<br>complete with 40 H.P. electric motors, starters,<br>controls and appurtenances | 10,600 |
| 8 - Sets of dampers with 1/4 H.P. electric motors,<br>controls and appurtenances  | 14,160 |

Between Mount Royal and St. Joseph Stations

- |   |       |
|---|-------|
| 2 - Tubeaxial fans, 38,900 cubic feet per minute,<br>complete with 20 H.P. electric motors, starters,<br>controls and appurtenances | 8,680 |
|---|-------|

Between St. Joseph and De Fleurimont Stations

- |   |        |
|---|--------|
| 2 - Tubeaxial fans, 64,400 cubic feet per minute,<br>complete with 40 H.P. electric motors, starters,<br>controls and appurtenances | 10,600 |
| 8 - Sets of dampers with 1/4 H.P. electric motors,<br>controls and appurtenances  | 14,160 |

Between De Fleurimont and Beaubien Stations

- |   |       |
|---|-------|
| 2 - Tubeaxial fans, 38,900 cubic feet per minute,<br>complete with 20 H.P. electric motors, starters,<br>controls and appurtenances | 8,680 |
|---|-------|

X - VENTILATION--Continued

Between Beaubien and Jean Talon Stations

- 2 - Tubeaxial fans, 38,900 cubic feet per minute, complete with 20 H.P. electric motors, starters, controls and appurtenances \$ 8,680
- 4 - Sets of dampers with 1/4 H.P. electric motors, controls and appurtenances 7,080

Between Jean Talon and Villeray Stations

- 2 - Tubeaxial fans, 38,900 cubic feet per minute, complete with 20 H.P. electric motors, starters, controls and appurtenances 8,680
- 4 - Sets of dampers with 1/4 H.P. electric motors, controls and appurtenances 7,080

Between Villeray and Cremazie Stations

- 2 - Tubeaxial fans, 74,100 cubic feet per minute, complete with 60 H.P. electric motors, starters, controls and appurtenances 11,820
- 12 - Sets of dampers with 1/4 H.P. electric motors, controls and appurtenances 21,240

Between Cremazie and Youville Stations

- 2 - Tubeaxial fans, 38,900 cubic feet per minute, complete with 20 H.P. electric motors, starters, controls and appurtenances 8,680

ESTIMATED TOTAL COST OF VENTILATION EQUIPMENT

\$ 259,910

Cherrier Station

Mount Royal Station

St. Joseph Station

SUBWAY STRUCTURE

XI - ESCALATORS

The following tabulation shows the estimated cost of escalators required at the various stations in the initial subway.

Atwater Station

Three-48" wide escalators having a rise of approximately 11 feet, complete with 10 H.P. motors, and controls \$ 135,000

Dominion Square Station

Two-48" wide escalators having a rise of approximately 12 feet, complete with 10 H.P. motors, and controls 90,000

Two-32" wide escalators having a rise of approximately 19 feet, complete with 10 H.P. motors, and controls 90,000

Place D'Armes Station

Two-32" wide escalators having a rise of approximately 14 feet, complete with 10 H.P. motors, and controls 79,000

Champ de Mars Station

One-32" wide escalator having a rise of approximately 19 feet, complete with 10 H.P. motor, and control 47,000

St. Catherine-DeMontigny Station

Two-32" wide escalators having a rise of approximately 11 feet, complete with 10 H.P. motors, and controls 74,000

Cherrier Station

Two-32" wide escalators having a rise of approximately 13 feet, complete with 10 H.P. motors, and controls 76,000

Mount Royal Station

One-32" wide escalator having a rise of approximately 20 feet, complete with 10 H.P. motor, and control 46,000

St. Joseph Station

One-32" wide escalator having a rise of approximately 22 feet, complete with 10 H.P. motor, and control 48,000

XI - ESCALATORS--Continued

DeFleurimont Station

One-32" wide escalator having a rise of approximately 13 feet, complete with 10 H.P. motor, and control \$ 38,000

Beaubien Station

One-32" wide escalator having a rise of approximately 17 feet, complete with 10 H.P. motor, and control 43,000

Jean Talon Station

One-32" wide escalator having a rise of approximately 16 feet, complete with 10 H.P. motor, and control 42,000

Villeray Station

One-32" wide escalator having a rise of approximately 15 feet, complete with 10 H.P. motor, and control 40,000

Cremazie Station

Two-32" wide escalators having a rise of approximately 14 feet, complete with 10 H.P. motors, and controls 78,000

Atwater Station

2 Units at \$3,900 each 7,800

Between Dominion Square and Victoria Square Stations

2 Units at \$3,900 each 7,800

Between Chapoy de Mars and St. Catherine-De Montigny Stations

ESTIMATED TOTAL COST OF ESCALATORS \$ 926,000

Mount Royal Station

2 Units at \$3,950 each 7,900

Between Beaubien and Jean Talon Stations

2 Units at \$3,950 each 7,900

Between Cremazie and Youville Stations

2 Units at \$3,950 each 7,900

Vertical Centrifugal Pump, 100 gallons per minute (G.P.)

complete with 1 H.P. electric drive motor, all controls, and appurtenances to be installed at the following station

Youville Station

1 Unit at \$1,000 each 1,000

SUBWAY STRUCTURE

XII - PUMPS

The following tabulation indicates the size and location of pumps required in the initial subway.

Vertical Centrifugal Pump, 500 gallons per minute (U.S.) complete with 10 H.P. electric drive motors, all controls, and appurtenances to be installed at each of the following locations

Between Guy and Dominion Square Stations  
1 Unit at \$3,750 each \$ 3,750

Between St. Catherine-De Montigny and Cherrier Stations  
1 Unit at \$3,750 each 3,750

Between Villeray and Cremazie Stations  
1 Unit at \$3,750 each 3,750

Vertical Centrifugal Pump, 750 gallons per minute (U.S.) complete with 15 H.P. electric drive motors, all controls, and appurtenances to be installed at each of the following locations

Atwater Station  
2 Units at \$3,950 each 7,900

Between Dominion Square and Victoria Square Stations  
2 Units at \$3,950 each 7,900

Between Champ de Mars and St. Catherine-De Montigny Stations  
2 Units at \$3,950 each 7,900

Mount Royal Station  
2 Units at \$3,950 each 7,900

Between Beaubien and Jean Talon Stations  
2 Units at \$3,950 each 7,900

Between Cremazie and Youville Stations  
2 Units at \$3,950 each 7,900

Vertical Centrifugal Pump, 100 gallons per minute (U.S.) complete with 1 H.P. electric drive motors, all controls, and appurtenances to be installed at the following station

Youville Station  
1 Unit at \$1,000 each 1,000

ESTIMATED TOTAL COST OF PUMPS

\$ 46,700

XII - PUMPS--Continued

Vertical Centrifugal Pump, 50 gallons per minute (U.S.) complete with 3/4 H.P. electric drive motors, all controls, and appurtenances to be installed at each of the following stations

Atwater Station		
2 Units at \$775 each		\$ 1,550
Guy Station		
2 Units at \$775 each		1,550
Dominion Square Station		
2 Units at \$775 each		1,550
Victoria Square Station		
2 Units at \$775 each		1,550
Place D'Armes Station		
2 Units at \$775 each		1,550
Champ de Mars Station		
1 Unit at \$775 each		775
St. Catherine-De Montigny Station		
2 Units at \$775 each		1,550
Cherrier Station		
1 Unit at \$775 each		775
Mount Royal Station		
1 Unit at \$775 each		775
St. Joseph Station		
1 Unit at \$775 each		775
De Fleurimont Station		
1 Unit at \$775 each		775
Beaubien Station		
1 Unit at \$775 each		775
Jean Talon Station		
1 Unit at \$775 each		775
Villeray Station		
1 Unit at \$775 each		775
Cremazie Station		
2 Units at \$775 each		1,550

ESTIMATED TOTAL COST OF PUMPS

\$ 76,700

SUBWAY STRUCTURE

XIII - SUBWAY LIGHTING

Auxiliary Power Supply for Subway Services

This item covers the cable connections from the power substations to the subway distributing switch rooms for the purpose of supplying power for auxiliary subway electrical services such as lighting, ventilation, power, etc.

Lump Sum

\$ 150,000

Subway Lighting

This item covers the cost of all subway lighting services, namely: station platforms, station mezzanines, street entrances and passageways, and the lighting of the tubes between stations. It also includes the lighting for the various battery rooms, switchboard rooms, toilets and other service rooms. The cost of storage batteries for emergency lighting is likewise included

Lump Sum

634,000

RIGHTS-OF-WAY

ESTIMATED TOTAL COST OF SUBWAY LIGHTING

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\$ 784,000

RIGHTS-OF-WAY

The following recapitulation covers the estimated cost  
**DETAILED ESTIMATE**  
of all properties and assessments required for the initial subway.

Estimated cost of all properties and assessments for the initial subway	\$ 6,500,000
Overhead expenses and contingencies	<u>1,000,000</u>
Total	\$ 7,500,000
Less estimated net value of air rights after construction of initial subway	<u>3,500,000</u>

RIGHTS - OF - WAY

ESTIMATED NET COST OF RIGHTS-OF-WAY \$ 4,000,000

RIGHTS-OF-WAY

The following recapitulation covers the estimated cost of all properties and easements required for the initial subway.

Estimated cost of all properties and easements for the initial subway	\$ 6,420,000
Overhead expenses and contingencies	<u>1,080,000</u>
Total	\$ 7,500,000
Less estimated net value of air rights after construction of initial subway	<u>3,500,000</u>
<p><u>FIXED SUBWAY EQUIPMENT</u></p>	
ESTIMATED NET COST OF RIGHTS-OF-WAY	\$ 4,000,000

FIXED SUBWAY EQUIPMENT

XIV - YOUVILLE STATION AND REPAIR SHEDS

Service Building at Youville Yard

This building will be located on property owned by the Montreal Transportation Commission. It will be constructed of brick and steel structure and will be heated to a temperature of approximately 60°. This building will be used for the cleaning and storage of subway cars.

**DETAILED ESTIMATE**

The following tabulation shows the approximate quantities for this facility.

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Total</u>
Excavation	2,100	cu. yds.	1.25	2,625.00
Concrete	4,825	cu. yds.	4.50	21,712.50
Reinforcing Steel	179	tons	24.00	4,296.00
Structural steel	707	tons	24.00	16,968.00
Backfill	1,110	cu. yds.	1.50	1,665.00
Brick Work	7,282	sq. ft.	1.50	10,923.00
Terra Cotta	1,425	sq. ft.	1.50	2,137.50
Glass Blocks	60,000	sq. ft.	1.50	90,000.00
Painting	-	sq. ft.	-	-
Doors	1	each	100.00	100.00
Wash Basins	-	each	-	-
Water Closets	-	each	-	-
Urinals	1	each	100.00	100.00
Roofing	1,700	sq. ft.	1.50	2,550.00
Heating	-	sq. ft.	-	-
Precast Roof Slabs	10,000	sq. ft.	1.50	15,000.00
Floors and Lighting	10,000	sq. ft.	1.50	15,000.00
Overhead Rolling Doors	2	each	100.00	200.00
Ventilators	10	each	100.00	1,000.00
Miscellaneous Hardware	-	-	-	-
Drainage	-	-	-	-
<b>Total</b>				<b>\$247,000.00</b>

**FIXED SUBWAY EQUIPMENT**

FIXED SUBWAY EQUIPMENT

XIV - YOUVILLE SERVICE AND REPAIR SHOPS

Service Building at Youville Yard

This building will be located on property owned by the Montreal Transportation Commission. It will consist of a one story building of brick and steel construction, having approximately 170,000 sq. ft. of area and will be heated to a temperature of approximately 50°. This building will be used for the cleaning and storage of subway cars.

The following tabulation shows the approximate quantities in this facility.

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Excavation	2,105	cu.yd.	\$ 4.00	\$ 8,420
Concrete	6,225	cu.yd.	45.00	280,125
Reinforcing Steel	179	ton	240.00	42,960
Structural Steel	707	ton	240.00	169,680
Backfill	1,116	cu.yd.	3.00	3,348
Brick Work	362	1,000	90.00	32,580
Terra Cotta	3,825	sq.ft.	0.55	2,104
Glass Blocks	40,020	each	1.35	54,027
Painting	--	L.S.	--	6,000
Doors	8	each	100.00	800
Wash Basins	3	each	400.00	1,200
Water Closets	3	each	400.00	1,200
Urinals	3	each	400.00	1,200
Roofing	1,753	square	45.50	79,761
Heating	--	L.S.	--	150,000
Precast Roof Slabs	175,000	sq.ft.	0.60	105,000
Fluorescent Lighting	170,200	sq.ft.	0.70	119,140
Overhead Rolling Doors	20	each	940.00	18,800
Ventilators	100	each	150.00	15,000
Miscellaneous Hardware	--	L.S.	--	8,200
Drainage	--	L.S.	--	12,455
<b>Total</b>				<b>\$ 1,112,000</b>

ESTIMATED TOTAL COST OF YOUVILLE SERVICE AND REPAIR SHOPS

\$ 1,112,000

XIV - YOUVILLE SERVICE AND REPAIR SHOPS-Continued

Repair Building at Youville Yard

This building will be located on property owned by the Montreal Transportation Commission. It will consist of a one story building of brick and steel construction, having approximately 75,000 sq. ft. of area and to be heated to a temperature of 65°. This building will be used for the servicing, washing and repair of subway cars.

The following tabulations shows the approximate quantities in this facility.

<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
Excavation	1,180	cu.yd.	\$ 4.00	\$ 4,720
Concrete	2,385	cu.yd.	45.00	107,325
Reinforcing Steel	82	ton	240.00	19,680
Structural Steel	296	ton	240.00	71,040
Backfill	685	cu.yd.	3.00	2,055
Brick Work	287	1000	90.00	25,830
Terra Cotta	7,800	sq.ft.	0.55	4,290
Glass Blocks	14,400	each	1.35	19,440
Painting	--	L.S.	--	4,000
Doors	10	each	100.00	1,000
Wash Basins	2	each	400.00	800
Water Closets	6	each	400.00	2,400
Urinals	5	each	400.00	2,000
Roofing	747	square	45.50	33,988
Heating	--	L.S.	--	100,000
Precast Roof Slabs	75,920	sq.ft.	0.60	45,552
Lighting	74,700	sq.ft.	0.70	52,290
Overhead Rolling Doors	12	each	940.00	11,280
Projected Sash	2,000	sq.ft.	2.00	4,000
Ventilators	31	each	150.00	4,650
Miscellaneous Hardware	--	L.S.	--	3,900
Drainage	--	L.S.	--	19,760
<b>Total</b>				<b>\$ 540,000</b>

ESTIMATED TOTAL COST OF YOUVILLE SERVICE  
AND REPAIR SHOPS

\$ 1,652,000

FIXED SUBWAY EQUIPMENT

XVI - SUBWAY STATION EQUIPMENT

XV - SHOP EQUIPMENT

tabulation shows equipment required in the various stations of the initial subway.

Repair Shop at Youville

This estimate covers major items of special shop equipment only.

Ouy Station

One - eight brush car washer for 10' 4" wide subway cars, including solution spray pipes, pumps, motors and all appurtenances \$ 28,000

Donation Square Station

One - 20 ton electrically operated drop table, with 4 flush table tops, 4 car body supports, drive motors and controls 35,000

4 - Full-stride, automatic, high passage exit turnstiles

Victoria Square Station

12 - Coin operated turnstiles 8,100

ESTIMATED TOTAL COST OF SHOP EQUIPMENT \$ 63,000

Place d'Armes Station

12 - Coin operated turnstiles 8,100

3 - Full-stride, automatic, high passage exit turnstiles 1,200

Champ de Mars Station

12 - Coin operated turnstiles 8,100

4 - Full-stride, automatic, high passage exit turnstiles 800

St. Catherine-Du Montigny Station

24 - Coin operated turnstiles 16,200

Cherrier Station

6 - Coin operated turnstiles 4,050

Mount Royal Station

6 - Coin operated turnstiles 4,050

St. Joseph Station

3 - Coin operated turnstiles 2,400

FIXED SUBWAY EQUIPMENT

XVI - SUBWAY STATION EQUIPMENT

The following tabulation shows equipment required in the various stations of the initial subway.

Atwater Station

16 - Coin operated turnstiles	\$ 10,800
2 - Full-stride, automatic, high passage, exit turnstiles	430

Guy Station

8 - Coin operated turnstiles	5,400
2 - Full-stride, automatic, high passage, exit turnstiles	430

Dominion Square Station

14 - Coin operated turnstiles	9,450
4 - Full-stride, automatic, high passage exit turnstiles	860

Victoria Square Station

12 - Coin operated turnstiles	8,100
6 - Full-stride, automatic, high passage exit turnstiles	1,290

Place d'Armes Station

12 - Coin operated turnstiles	8,100
6 - Full-stride, automatic, high passage exit turnstiles	1,290

Champ de Mars Station

12 - Coin operated turnstiles	8,100
4 - Full-stride, automatic, high passage exit turnstiles	860

St. Catherine-De Montigny Station

24 - Coin operated turnstiles	16,200
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Cherrier Station

6 - Coin operated turnstiles	4,050
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Mount Royal Station

6 - Coin operated turnstiles	4,050
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St. Joseph Station

8 - Coin operated turnstiles	5,400
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XVI - SUBWAY STATION EQUIPMENT - Continued

De Fleurimont Station

4 - Coin operated turnstiles \$ 2,700  
 2 - Full-stride, automatic, high passage exit turnstiles 430

Beaubien Station

6 - Coin operated turnstiles 4,050

Jean Talon Station

6 - Coin operated turnstiles 4,050

Villeray Station

4 - Coin operated turnstiles 2,700

Cremazie Station

8 - Coin operated turnstiles 5,400

Youville Station

6 - Coin operated turnstiles 4,050

ESTIMATED TOTAL COST OF SUBWAY STATION EQUIPMENT \$ 108,190

Rail oilers, including storage tanks and appurtenances,  
 for inner rails of certain curves  
 10 each at \$800 8,000

Total \$ 2,168,945

FIXED SUBWAY EQUIPMENT

XVII - SUBWAY TRACKS

Operating Tracks in Initial Subway

Track on Tangent, 100 lb., A.R.A., type A, rail and fastenings, fully insulated, attached to concrete invert slab, thermit welded joints 64,052 lin. ft. at \$22.25	\$ 1,425,160
Track on Curves, 100 lb., A.R.A., type A, rail and fastenings, fully insulated, attached to concrete invert slab, thermit welded joints, with 85 lb., C.P.R. section restraining rail located on inside of inner rails through curves 13,252 lin. ft. at \$37.00	490,325
Track on Tangent, 100 lb., A.R.A., type A, rail and fastenings, fully insulated, tie and ballast construction, thermit welded joints 4,939 lin. ft. at \$18.70	92,360
Cross -over, No. 8, double, tie and ballast construction, 100 lb., A.R.A., type A, rail and fastenings, fully insulated 5 each at \$18,000	90,000
Cross-over, No. 8, double, tie and ballast construction, 100 lb., A.R.A., type A, rail and fastenings, fully insulated 3 each at \$20,000	60,000
Cross-over, No. 7, tie and ballast construction, 100 lb., A.R.A., type A, rail and fastenings, fully insulated 1 each at \$2,300	2,300
Rail oilers, including storage tanks and appurtenances, for inner rails of certain curves 10 each at \$680	6,800
<b>Total</b>	<b>\$ 2,166,945</b>

ESTIMATED TOTAL COST OF SUBWAY TRACKS

Note: Estimated cost of third (power supply) rail is not included herein but is shown as a separate item in this appendix.

XVII - SUBWAY TRACKS-Continued

Atwater Station Storage Tracks

Track on Tangent, 100 lb., A.R.A., type A, rail and fastenings, fully insulated, attached to concrete invert slab, thermit welded joints 1,185 lin. ft. at \$22.25	\$ 26,365
Track on curves, 100 lb., A.R.A., type A, rail and fastenings, fully insulated, attached to concrete invert slab, thermit welded joints with 85 lb., C.P.R., section restraining rail on inside of inner rails 837 lin. ft. at \$37.00	30,970
Track on curves, 100 lb., A.R.A., type A, rail and fastenings, fully insulated, tie and ballast construction, thermit welded joints 642 lin. ft. at \$26.50	17,015
Turnouts, No. 8, 100 lb., tie and ballast construction fully insulated 2 each at \$5,000	<u>10,000</u>
Total	\$ 84,350

Youville Yard Tracks

Yard tracks, 85 lb., C.P.R. section rail and fastenings, tie and ballast construction 14,369 lin. ft. at \$10.30	148,000
Service tracks in Buildings, 85 lb., C.P.R., section rail and fastenings 10,720 lin. ft. at \$11.00	117,920
Turnouts, No. 6, 85 lb., tie and ballast construction 32 each at \$1,700	54,400
Turnouts, No. 8, 85 lb., tie and ballast construction 2 each at \$2,000	<u>4,000</u>
Total	\$ 324,320

ESTIMATED TOTAL COST OF SUBWAY TRACKS \$ 2,575,615

Note: Estimated cost of third (power supply) rail is not included herein but is shown as a separate item in this appendix.

FIXED SUBWAY EQUIPMENT

XVIII - THIRD (CONTACT) RAIL

The following tabulation indicates the quantities and prices for the construction of the Third (contact) Rail in the initial subway.

Operating Tracks in Initial Subway

150 pound section, high conductivity contact rail,  
supported by porcelain insulators and protected by  
a wooden plank assembly.  
82,242 lin. ft.

\$ 1,158,925

Atwater Station Storage Tracks

150 pound section, high conductivity contact rail,  
supported by porcelain insulators and protected by  
a wooden plank assembly  
2,664 lin. ft.

37,540

Youville Yard Tracks

150 pound section, high conductivity contact rail,  
supported by porcelain insulators and protected by  
a wooden plank assembly  
25,089 lin. ft.

353,580

ESTIMATED TOTAL COST OF THIRD RAIL

\$ 1,550,045

FIXED SUBWAY EQUIPMENT

XIX - SUBSTATIONS, POWER TRANSMISSION AND APPURTENANCES

Power Substations

This item covers the cost for structures and equipment to house four new substations together with the required changes at three existing substations

Lump Sum \$ 2,300,000

Primary Power Supply to Substations

This item covers the cost of cable connections between the Commission's 12,000 volt distribution system and the new substations

Lump Sum 345,000

D. C. Traction Power, Feeders and Returns

This item includes the positive connections between the substations and the subway, as well as the connections between the sectionalizing switch rooms and the third rail. It also includes auxiliary negative return cable

Lump Sum 940,000

D. C. Sectionalizing Equipment

This item covers the required direct current switches and supports for mounting. This sectionalizing equipment is required at locations where cross-over facilities are provided in the subway tracks and also at the entrance of Youville Yard

Lump Sum 285,000

XIX - SUBSTATIONS, POWER TRANSMISSION AND APPURTENANCES-Continued

Telephones and Emergency Alarm System

This item covers the installation of a private telephone system throughout the length of the initial subway. It provides for the installation of two telephones at each station and single telephones approximately 1/4 of a mile apart throughout the entire subway. It also includes the installation of a central telephone exchange and the necessary cable for the complete installation.

It also covers the installation of an emergency alarm system which will permit trainmen or other employees to signal for the de-energizing of the power lines in any particular section of the subway, in case of an emergency

Lump Sum

\$ 100,000

Miscellaneous Electrical Services

This item includes the conduits, switch gear and wiring of drainage pumps, sewer pumps, escalators, ventilating fans and similar equipment

Lump Sum

145,000

Conduits

This item covers the installation of an average of 12 conduit ducts throughout the length of the subway for carrying power and traction cables, telephone cables, and other required electrical cables

Lump Sum

400,000

ESTIMATED TOTAL COST OF SUBSTATIONS, POWER  
TRANSMISSION AND APPURTENANCES

\$ 4,515,000

FIXED SUBWAY EQUIPMENT

XX - SIGNALS AND INTERLOCKING

This estimate covers the installation of a complete signal and interlocking system consisting of 3 indication color-light wayside signals, automatic wayside train stops, remote control of emergency cross-over switches and with interlocking plants at the Atwater and Youville Terminals.

90 Automatic, 3 indication, color-light wayside signals	\$ 509,460
31 Interlocking home signals	338,340
13 Interlocking dwarf signals	70,350
121 Automatic wayside train stops	660,720
124 Track circuits	225,380
41 Power Switch machines	297,190
2 Interlocking operating machines	60,650
Cable and wire	242,550
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ESTIMATED TOTAL COST OF SIGNALS AND INTERLOCKING

\$ 2,404,640

SUBWAY CARS

In order to meet the schedule of operations, as set forth in the Report, it is estimated that 150 subway cars will be required. The **DETAILED ESTIMATE** is set forth below:

150 cars at \$87,000	\$ 13,050,000
Engineering and contingencies	1,950,000
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SUBWAY CARS

**ESTIMATED TOTAL COST OF SUBWAY CARS** \$ 15,000,000

SUBWAY CARS

In order to meet the schedule of operations, as set forth in the Report, it is estimated that 160 subway cars will be required. The estimate of cost for this rolling stock is set forth below:

160 cars at \$82,000	\$ 13,120,000
Engineering and contingencies	1,880,000
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ESTIMATED TOTAL COST OF SUBWAY CARS	\$ 15,000,000

