

RE: CONTRACT #8318

WILLINGDON GREEN/CANADA WAY

ACTING MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Purchasing Agent be adopted.

ITEM 14
MANAGER'S REPORT NO. 52
COUNCIL MEETING 1983 08 22

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TO: MUNICIPAL MANAGER
FROM: PURCHASING AGENT
RE: CONTRACT #8318
WILLINGDON GREEN/CANADA WAY

DATE: 1983 August 17

RECOMMENDATION:

1. THAT the lowest tender in amount of \$1,063,579.18 submitted by H.B. Contracting Limited, be accepted with final payment based on actual quantities and unit prices tendered.

REPORT

Tenders for this project were received up to 15:00 h local time on Tuesday, 1983 August 16th.

All work included under this contract shall be completed by 1983 December 31.

Seven (7) tenders were received and opened in the presence of Municipal Staff and Representatives of the firms bidding.

The work includes the widening of Canada Way from east of Beta Avenue to east of Willingdon Avenue, and the construction of all services, including road works, for a proposed industrial park adjacent to Beta Avenue and Canada Way.

A tabulation of the tenders received is attached. (ATTACH A.)

Funds for this project are included in the 1983 Capital Budget.

A combination of the schedule of quantities, coupled with the unit prices submitted by the lowest bidder, H.B. Contracting is also attached. (ATTACH. B1 - B11).

The Director Engineering concurs with the recommendation to award a contract to H.B. Contracting Ltd.



K.F. Williams,
PURCHASING AGENT

KFW/js

c.c. Municipal Clerk
Director Engineering

THE CORPORATION OF THE DISTRICT OF BURNABY
TABULATION OF TENDERS
CONTRACT #8318
WILLINGDON GREEN/CANADA WAY

PURCHASING DEPARTMENT
 1983 August 17

NO.	COMPANY NAME	TOTAL
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1.	C. Victor Koran Ltd.	\$ 1,172,884.20
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2.	Hub Contracting Ltd.	1,223,787.90
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3.	United Contractors Ltd.	1,092,181.05
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4.	H. B. Contracting Ltd.	1,063,579.18
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5.	Fownes Contracting (1980) Ltd.	1,261,647.95
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6.	Kany Construction & Engineering Ltd.	1,555,653.00
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7.	Standard General Construction (B.C.) Ltd.	1,108,956.59
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LOW BIDDER: H. B. Contracting Ltd.
 16211 - 84th Avenue
 Surrey, B.C.
 V3S 2P3
 ENGINEER'S ESTIMATE: \$ 1,215,000.00

ITEM	14
MANAGER'S REPORT NO.	52
COUNCIL MEETING	1983 08 22

THE CORPORATION OF THE DISTRICT OF BURNABYCONTRACT #8318SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICESWILLINGDON GREEN/CANADA WAY

Quantities in this Schedule are approximate and for tender purposes only. Payment will be made on actual measured quantities of completed work units. Unit prices shall govern and extensions may be corrected if in error. Unit prices tendered shall be used for the purpose of comparison of tenders, for calculating progress payments or for authorized additional work or deductions and shall include the supply and delivery of all materials, labour, equipment and plant for complete installation or construction of items specified below. Refer to Special Provisions and General Specifications for definition and method of measurement.

ALL QUOTATIONS MUST BE TYPEWRITTEN OR IN INKSECTION I - SITE PREPARATION

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
1.a)	<u>Clearing and grubbing - for roadworks, water-course, overexcavation and utilities</u>	--	--	Lump Sum	\$ 14,421.00
b)	<u>Clearing and Grubbing - Additional clearing on lots if ordered by the Engineer. Payment to be made per Clause 40 - General Conditions</u>	--	--	Provisional Sum	5,000.00
2.	<u>Danger trees</u>	each	5	\$ 57.00	285.00
3.	<u>Common excavation and disposal of excavated material</u>				
a)	<u>Common excavation on Canada Way</u>	cu.metre	900	3.80	3,420.00
b)	<u>Common excavation on Willingdon Green</u>	cu.metre	5,900	2.74	16,166.00
c)	<u>Overexcavation - Willingdon Green roadway and box culvert</u>	cu.metre	10,000	2.94	29,400.00
d)	<u>Common excavation - Creek north of Willingdon Green</u>	cu.metre	800	5.89	4,712.00
e)	<u>"Extra over" payment for off-site disposal of common excavation or overexcavation material</u>	cu.metre	9,000	2.38	21,420.00
4.	<u>Special backfill in overexcavated area</u>	tonne	12,000	7.63	91,560.00

ITEM 14
 MANAGER'S REPORT NO. 52
 COUNCIL MEETING 1983 08 22

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

SECTION I - SITE PREPARATION (Cont'd)

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
5.	Compaction of in-situ native materials on Wilingdon Green roadway, if ordered. Payment to be made per Clause 40, General Conditions	--	--	Provisional Sum \$	2500.00
6.	Removal of existing concrete curb and gutter and median curb	metre	560	2.44	1,366.40
7.	Removal of existing concrete sidewalks - all types	sq.metre	840	1.63	1,369.20
8.	<u>Rubble excavation</u>	cu.metre	100	15.00	1,500.00
9.	Rock excavation encountered in site preparation - i.e., not in trenches	cu.metre	20	25.00	500.00
10.	Rock excavation in underground utility trenches	cu.metre	20	25.00	500.00
				TOTAL SECTION I	\$ 194,119.60

SECTION II - STORM SEWERS

This section includes all storm sewer works required. Unit prices are to include excavation, bedding, backfill and restoration except as noted in the Special Provisions. Imported granular backfill, where ordered, will be paid for under Section VII; otherwise payment is in accordance with Form V of the General Specifications.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
11.	<u>Main Line Storm Sewer</u>				
	<u>Supply and Install -</u>				
	1500 mm dia.:				
	a) 0 - 3 m deep	metre	170	\$ 560.78	\$ 95,332.60
	b) 3 m - 4 m deep	metre	35	572.24	20,028.40
	c) 4 m - 5 m deep	metre	20	587.83	11,756.60
12.	<u>Bends -extra over main-line</u>				
	<u>Supply and Install -</u>				
	1500 mm dia. prefabricated double mitre bends:				
	a) 41 degree, approx.	each	2	751.00	1,502.00
	b) 38 degree, approx.	each	2	751.00	1,502.00
	c) 34 degree, approx.	each	1	751.00	751.00
	d) 26 degree, approx.	each	1	751.00	751.00

ITEM	14
MANAGER'S REPORT NO.	52
COUNCIL MEETING	1983 08 22

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

SECTION II - STORM SEWERS (Cont'd)

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
13.	<u>Storm Manholes</u>				
	a) 1050 mm manhole tee off 1500 mm pipe	each	2	\$ 829.00	\$ 1,658.00
	b) Vertical storm manhole sections	metre	3	523.00	1,569.00
14.	Tie in proposed 1500 mm dia. storm sewer to existing 900 mm dia. storm sewer	--	--	Lump Sum	14,680.00
15.	<u>Box Culverts - all depths</u>				
	a) 2400 mm x 2400 mm box culvert, H20 loading with 2 m depth to ASTM C789	metre	25	1163.00	29,075.00
	b) 3000 mm x 1500 mm box culvert, H20 loading with 1 m depth to ASTM C789	metre	17.5	2367.81	41,436.68
16.	<u>Inlet Structure for 2400 mm x 2400 mm box culvert, including guard rails and wire mesh</u>	--	--	Lump Sum	18,965.00
17.	<u>Outlet Structure for 2400 mm x 2400 mm box culvert and 1500 mm storm sewer, including guard rails and wire mesh</u>	--	--	Lump Sum	25,952.00
18.	Tie in proposed 3000 mm x 1500 mm box culvert to existing culvert at Canada Way	--	--	Lump Sum	12,850.00
19.	<u>Catch Basins, Type V</u>				
	Supply and install	each	8	684.00	5,472.00
20.	<u>Catch Basin Leads</u>				
	a) 150 mm diameter	metre	40	62.60	2,504.00
	b) 200 mm diameter	metre	40	66.00	2,640.00
21.	Relocate existing catch basins	each	4	314.00	1,256.00
22.	<u>Drain Tile - 150 mm dia.</u>	metre	100	36.54	3,654.00
23.	<u>Pit Run Gravel under rip-rap in creek</u>	tonne	900	8.07	7,263.00
24.	Coarse Gravel in creek bottom, 75 mm x 50 mm	tonne	150	10.11	1,516.50

ITEM 14
MANAGER'S REPORT NO. 52
COUNCIL MEETING 1983 08 22

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES 132

SECTION II - STORM SEWERS (Cont'd)

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
25.	Rip-rap in creek- supply and place	sq.metre	1,400	\$ 22.17	\$ 31,038.00
26.	Supply and place grout for rip-rap where ordered - extra over unit price for rip-rap	sq.metre	100	37.50	3,750.00
TOTAL SECTION II					<u>\$336,902.78</u>

SECTION III - SANITARY SEWERS

This section includes all sanitary sewer works required. Unit prices are to include excavation, bedding, backfill and restoration except as noted in the Special Provisions. Imported granular backfill, where ordered, will be paid under Section VII. Otherwise, payment is in accordance with Form X of the General Specifications.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
<u>Sanitary Sewers not on Piles</u>					
<u>Mainline Sewers - Depths given are to pipe invert</u>					
27.	200 mm diameter:				
	a) 0 m - 3 m deep	metre	10	\$ 116.62	\$ 1,166.20
	b) 3 m - 4 m deep	metre	10	127.49	1,274.90
	c) 4 m - 5 m deep	metre	20	143.82	2,876.40
28.	450 mm diameter:				
	a) 0 m - 3 m deep	metre	10	154.42	1,544.20
	b) 3 m - 4 m deep	metre	55	165.29	9,090.95
	c) 4 m - 5 m deep	metre	130	181.62	23,610.60
	d) 5 m - 6 m deep	metre	30	208.78	6,263.40
	e) 6 m - 7 m deep	metre	95	263.15	24,999.25
29.	Sanitary Service Connections not on piles - all depths:				
	200 mm diameter	metre	10	91.00	910.00
30.	Vertical risers on sanitary services as ordered by the Engineer - accordance with Std. Dwg. L420				
	200 mm diameter	vert. metre	12	56.00	672.00
31.	Sanitary sewer manholes - not on piles:				
	1050 mm diameter	vert. metre	30	488.00	14,640.00
32.	450 mm dia. cap	each	2	89.00	178.00

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

SECTION III - SANITARY SEWERS (Cont'd)

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
33.	Remove and dispose of existing 450 mm dia. sanitary sewer, all depths	metre	255	\$ 46.86	\$ 11,949.30
34.	Remove and dispose of existing sanitary man-holes, all depths	each	3	343.00	1,029.00
<u>Sanitary Sewers on Piles</u>					
<u>Timber Piling, supply and install:</u>					
35.	Size 14 piles, untreated C.S.A. Spec. 056 for round timber piles - approx. 35 piles	vert. metre	580	19.13	11,095.40
36.	Re-drive unseated piles	each	2	171.00	342.00
37.	Withdraw and re-drive piles, if required, as directed by the Engineer	each	2	343.00	686.00
38.	Cedar pile cap/support plate, 600 mm x 300 mm x 300 mm - supply and install including drift pins	each	38	75.50	2,869.00
39.	Cedar grade beam, 300 mm x 300 mm, for mainline and service - Supply and install, including 50 mm x 200 mm cedar rails, nails and drift pins	metre	135	54.21	7,318.35
40.	Mainline sanitary sewers on piles, including sand bedding and nylon cinch band: 200 mm dia.: 0 m - 3 m deep	metre	130	147.73	19,204.90
41.	200 mm dia. sanitary service on piles, including sand bedding, nylon cinch band and cap - all depths	metre	3	157.00	471.00
42.	Construct M.H. 30-A on piles, including base, in accordance with Std. Dwg. L 1419	--	--	Lump Sum	4,118.00
43.	Tie in proposed sanitary sewer mainline to existing M.H. 30	--	--	Prov. Sum	2000.00
TOTAL SECTION III					\$ 148,308.85

ITEM	14
MANAGER'S REPORT NO.	52
COUNCIL MEETING	1983 08 22

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

134

SECTION IV - WATER WORKS

This section includes all water works required. Unit prices are to include materials, excavation, bedding, backfilling and restoration where required. Imported granular backfill, where ordered, will be paid for under Section VII; otherwise payment is in accordance with Form VI of the General Specifications.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
44.	Main Line 200 mm dia. D.I.	metre	210	\$ 74.63	\$ 15,672.30
45.	Bends - Complete with <u>Thrust Blocks</u>				
	200 mm dia - 45° Tyt x Tyt	each	4	199.00	796.00
46.	<u>Gate Valves & Covers</u>				
	a) 100 mm dia. Tyt x F1	each	4	357.00	1,428.00
	b) 150 mm dia. Tyt x F1	each	4	392.00	1,568.00
	c) 200 mm dia. Tyt x F1	each	1	586.00	586.00
47.	<u>Tees - complete with thrust blocks</u>				
	a) 200 Tyt x 200 F1 x 150 F1	each	4	349.00	1,396.00
	b) 200 Tyt x 200 F1 x 100 F1	each	4	331.00	1,324.00
48.	<u>Service Connections,</u> complete, including cap - Refer to Std. Dwg. L1162				
	a) 100 mm dia.	metre	40	65.00	2,600.00
	b) 150 mm dia.	metre	40	69.00	2,760.00
49.	<u>Fire Hydrant Assemblies,</u> complete, including tee, valve, valve box, tie-rods and thrust blocks as per Std. Dwg. L691 or L707	each	2	2020.00	4,040.00
50.	Remove existing blow-off and tie in to existing system	--	--	Lump Sum	1,578.00
51.	Testing and Disinfecting	--	--	Lump Sum	1,071.00
	TOTAL SECTION IV				\$ 34,819.30

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

SECTION V - ROADWORKS

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
52.	Pit Run Gravel for road and sidewalk construction	tonne	3,000	\$ 7.07	\$ 21,210.00
53.	75 mm Minus Crushed Gravel, if ordered	tonne	100	7.65	765.00
54.	Sub-base Preparation - tolerance +- 25 mm	sq.metre	6,800	0.10	680.00
55.	20 mm Minus Crushed Gravel - for roads	tonne	1,200	9.34	11,208.00
56.	Fine Grading of Roadways and driveways - tolerance +- 6 mm	sq.metre	5,800	0.12	696.00
57.	Combined Curb and Gutter, Type A or AX, curved or straight	metre	950	25.98	24,681.00
58.	Abutting and Separated Sidewalks, curved or straight	sq.metre	1,050	21.19	22,249.50
59.	Integrated Retaining Wall and Sidewalk, including Handrail	metre	35	261.19	9,141.65
60.	Extruded Median Curb	metre	770	10.22	7,869.40
61.	Connector Walks	sq.metre	15	31.80	477.00
62.	Adjust Existing Valve Boxes	each	2	57.00	114.00
63.	Clean Existing Pavement Fill cracks and apply tack coat	sq.metre	300	0.25	75.00
64.	Asphaltic Concrete				
	a) Canada Way - Type IV, 0 to 2 m strip width	tonne	50	60.52	3,026.00
	b) Canada Way - Type IV, machine laid	tonne	600	36.54	21,924.00
	c) Canada Way - Type V, machine laid	tonne	220	38.25	8,415.00
	d) Willingdon Green - Type IV, machine laid	tonne	700	35.40	24,780.00
	e) Type V, hand laid - all locations	tonne	150	68.51	10,276.50
65.	Boulevard Grading to a tolerance of +- 25 mm	sq.metre	5,000	0.67	3,350.00
				TOTAL SECTION V	\$ 170,938.05

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

SECTION VI - STREET LIGHTING WORKS

Unit prices are to include all necessary excavation, bedding, supply of material, installation, backfilling and compaction for the items listed. Granular backfill, where ordered, will be paid for under Section VII.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
66.	Supply and Install P.V.C. Conduit - 32 mm dia.	metre	900	\$ 6.77	\$ 6,093.00
67.	Supply and Install Wiring from service boxes and between all pole bases.				
(a)	2 - #6 T.W.H feeders with 1 - #8 T.W.H. green ground	metre	160	5.48	876.80
(b)	3 - #6 T.W.H. feeders with 1 - #8 T.W.H. green ground	metre	740	6.62	4,898.80
68.	Supply and Install Concrete Bases as per Dwg. L736, including anchor bolts, conduit bends and wires	each	17	297.00	5,049.00
69.	Supply and Install Poles 9.1 m high, complete	each	7	982.00	6,874.00
70.	Move poles and all Components on Canada Way to new bases	each	10	110.00	1,100.00
71.	Relocate Junction Boxes	each	2	97.00	194.00
72.	Supply and Install Junction Boxes, including conduit bends and wires per Std. Dwg. L1695, Type I	each	2	80.00	160.00
TOTAL SECTION VI					\$ 25,245.60

ITEM	14
MANAGER'S REPORT NO.	52
COUNCIL MEETING	1983 08 22

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

SECTION VII - MISCELLANEOUS AND CONTINGENCY WORK

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
73.	Imported Pit Run granular backfill for underground utility trenches	tonne	1,500	\$ 7.33	\$ 10,995.00
74.	Imported Granular Material for backfilling area of overexcavation in the vicinity of the box culvert on Willingdon Green or elsewhere. This is a contingency item and will only be used if ordered	tonne	10,000	5.66	56,600.00
75.	Borrow Material from Lots 52 and 53 for use as fill as required. This is a contingency item and will only be used if ordered	cu.metre	5,000	2.13	10,650.00
76.	Contingency Work				
	Payment to be made as per Section 40 of the General Conditions	--	--	Provisional Sum	75,000.00
	TOTAL SECTION VII				<u>\$153,245.00</u>

ITEM	14
MANAGER'S REPORT NO.	52
COUNCIL MEETING	1983 08 22

THE CORPORATION OF THE DISTRICT OF BURNABY

CONTRACT #8318

138

WILLINGDON GREEN/CANADA WAY

TENDER SUMMARY

Site Preparation	Section I	\$ 194,119.60
Storm Sewers	Section II	\$ 336,902.78
Sanitary Sewers	Section III	\$ 148,308.85
Water Works	Section IV	\$ 34,819.30
Roadworks	Section V	\$ 170,938.05
Street Lighting Works	Section VI	\$ 25,245.60
Miscellaneous and Contingency Work	Section VII	\$ 153,245.00
	TOTAL TENDER	\$ 1,063,579.18

TENDERER: H. B. CONTRACTING LTD.

THE CORPORATION OF THE DISTRICT OF BURNABY

FORM OF TENDER

CONTRACT #8318

The Corporation of the District of Burnaby
Municipal Hall
4949 Canada Way
Burnaby, B. C.
V5G 1M2

RECEIVED
1983 AUG 16

PURCHASING AGENTS
OFFICE

The undersigned Tenderer having carefully read and examined the Instructions to Bidders, Specifications, General Conditions of the Contract, Form of Agreement, Schedule of Quantities and Prices, hereby accepts the same as part and parcel of a contract herein referred to, and having carefully examined the locality and site or sites of the work does hereby tender and offer to enter into a contract to do all therein called for on the terms and conditions and under the provisions therein set forth at the rates which he has entered in the said schedule (annexed hereto and signed) at which rates the cost of the approximate quantities set out therein would amount to a total of \$ 1,063,579.18.

The contract period shall extend from the date of execution of the agreement until expiration of sixty(60) consecutive working days.

The undersigned tenderer hands you therewith a ~~separately~~ bid bond in favour of the Corporation for the sum of 10% of Tender Amount (\$ _____).

The amount payable to the Corporation in the said Bid Bond, or the said cheque and the amount thereof, as the case may be forfeited to the Corporation as estimated liquidated damages and not by the way of penalty if the bidder declines or neglects to execute the contract or furnish the required bonds or insurance within six (6) days after being notified in writing by the Corporation of its acceptance of his tender; or if the Contractor refuses or fails to proceed with the work within ten (10) days after notification to him by the Corporation to proceed with the work.


The undersigned has not made any deletions, alterations, or changes in the contract documents as listed in clause 2 of the Instructions to Bidders or the drawings as listed in the Special Provisions.

IF WE ARE NOTIFIED OF THE ACCEPTANCE OF OUR TENDER WE WILL WITHIN THE ABOVE MENTIONED PERIOD OF SIX (6) DAYS:

- (a) Execute the form of contract as provided by The Corporation of the District of Burnaby.
- (b) Supply suitable bonds covering (1) performance, and (2) labour, service, material and hired equipment as further specified in the General Conditions.
- (c) Supply public liability and property damage insurance coverage as further specified in the General Conditions.

Unless and until the formal agreement is prepared and executed it is understood that this tender together with your Notice of Acceptance shall constitute a binding Contract between us.

H.B. CONTRACTING LTD.

 President
TENDERER

16211 - 84th Avenue,
Surrey, B. C. V3S 2P3

ITEM
14
MANAGER'S REPORT NO. 52
COUNCIL MEETING 1983 08 22

