

Re: CONTRACT NO. 8811
EXTENSION OF 16TH AVENUE TO CARIBOO ROAD AND
PROVISION OF MUNICIPAL SERVICES - AREA 7 OF
THE CARIBOO HEIGHTS DEVELOPMENT.
(Item Suppl. 21, Manager's Report 37, 1988 May 16)

ACTING MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of Director Finance be adopted.

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TO: MUNICIPAL MANAGER 1988 JULY 06
FROM: DIRECTOR FINANCE
RE: CONTRACT NO. 8811
EXTENSION OF 16TH AVENUE TO CARIBOO ROAD AND
PROVISION OF MUNICIPAL SERVICES - AREA 7 OF
THE CARIBOO HEIGHTS DEVELOPMENT.
(ITEM 21, REPORT NO. 36, 1988 MAY 16)

RECOMMENDATION

1. THAT a contract be awarded to the lowest acceptable bidder, Hellyer Services Ltd., to construct approximately 830 metres of new collector roadway and to perform related work, for a total cost of \$1,209,987.25 with final payment based on actual quantities and unit prices tendered.

REPORT

Tenders for this project were received up to 3:00 p.m. local time Thursday, 1988 June 30.

The work of this contract consists of the construction of approximately 830 metres of new collector roadway complete with clearing and grubbing, excavation, embankment construction, storm drainage, water main, street lighting, asphaltic concrete pavement, curb and gutter, and sidewalk.

The Director Engineering's estimate for this work is \$1,340,000.00.

Six (6) tenders were received and opened by municipal staff in the presence of representatives of the firms bidding.

A tabulation of the tenders received is attached (Attachment A). A copy of the schedule of quantities and prices submitted by the recommended bidder, Hellyer Services Ltd., is also attached (Attachment B).


The lowest tender received, that of Dayross Developments Ltd., was considered incomplete because the Fair Wages Schedule was not completed. The tender document includes the following clause in the Fair Wages Schedule section: "The Contractor and every subcontractor, shall complete their respective schedules attached hereto. Failure to do so will result in the tender being considered incomplete." Dayross Developments Ltd. was afforded the opportunity to complete their tender, however they failed to respond and the tender was therefore eliminated from further consideration.

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The lowest acceptable bidder, Hellyer Services Ltd., was awarded contracts in March and June of this year by Burnaby for watermain replacement at Canada Way and Willingdon and to perform Phase II of the local improvement program. Hellyer Services Ltd. has an excellent track record with Burnaby and staff does not hesitate in recommending them for the subject work.

Funding for the Carbioo Heights subdivision development, Phase I, is provided in the 1988 Capital Budget, under land assembly and development, specifically from reserves designated for development.

The Director Engineering and our consultant, Associated Engineering (B.C.) Ltd., concur with the above recommendation.



Howard Karras
DIRECTOR FINANCE

JV:vm
Attach.

cc: Director Engineering

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MANAGER'S REPORT NO.	47
COUNCIL MEETING	1988/07/11

1988 June 30

TENDER TABULATION
 CONTRACT #8811
 16TH AVENUE EXTENSION

NAME	TOTAL
1. Jack Cewe Ltd.	\$1,261,067.00
2. Hellyer Services Ltd.	\$1,209,987.25
3. C. Victor Koran Ltd.	\$1,265,863.50
4. A B S Contracting Ltd.	\$1,282,586.00
5. United Contractors Ltd.	\$1,247,451.00
6. Dayross Developments Ltd.	*\$1,042,788.00

* Tender received incomplete

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SCHEDULE OF QUANTITIES AND PRICES

The following are our tendered prices for the cost of the work for each item as outlined in the respective payment clauses in the specification.

Item	Description	Quantity	Unit Price	Extension
PART 1.0 - SITE PREPARATION				
1.1	Clearing and Grubbing. Section 2A.4.1.1. Price per hectare.	3.60 ha	\$13,000.00	\$ 46,800.00
1.2	Removal of Pavement. Section 2A.4.1.2.3. Price per square metre.	720 m ²	2.10	1,512.00
1.3	Cutting of Pavement. Section 2A.4.1.2.4. Price per metre.	100 m	3.50	350.00
1.4	Removal of Concrete Guardrail. Section 2A.4.1.2.5. Price per metre.	10 m	50.00	500.00
1.5	Removal of Sewers. Section 2A.4.1.2.6. Lump sum price.	LS		365.00
1.6	Surface Restoration. Section 2A.4.1.3. Lump sum price.	LS		2,650.00
TOTAL PART 1.0 - SITE PREPARATION				\$ 52,177.00

**PART 2.0 -
TRENCH EXCAVATION AND BACKFILL**

2.1	Overexcavation and Placement of Base Gravel Material. Section 2B.4.1.1. Price per cubic metre. (Provisional Quantity)	200 m ³	22.50	4,500.00
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Item	Description	Quantity	Unit Price	Extension
2.2	Imported Backfill Material. Section 2B.4.1.2. Price per cubic metre. (Provisional Quantity)	300 m ³	\$ 17.00	\$ 5,100.00
2.3	Common Trench Excavation and Backfill. Section 2B.4.1.3. Price per metre.			
.1	Single-Pipe Trenches.			
.1	Less than 200-mm dia pipes.			
	• Installed 0-2 m deep.	205 m	20.75	4,253.75
	• Installed 2-3 m deep.	50 m	25.00	1,250.00
	• Installed 3-4 m deep.	5 m	29.00	145.00
.2	200-mm dia pipes.			
	• Installed 0-2 m deep.	390 m	12.00	4,680.00
	• Installed 2-3 m deep.	130 m	14.50	1,885.00
	• Installed 3-4 m deep.	35 m	19.00	665.00
.3	250-mm dia pipes.			
	• Installed 0-2 m deep.	250 m	13.25	3,312.50
	• Installed 2-3 m deep.	75 m	14.50	1,087.50
.4	300-mm dia pipes.			
	• Installed 0-2 m deep.	115 m	13.25	1,523.75
.5	375-mm dia pipes.			
	• Installed 0-2 m deep.	160 m	13.25	2,120.00
	• Installed 2-3 m deep.	25 m	14.50	362.50
	• Installed 3-4 m deep.	15 m	19.50	292.50
	• Installed 4-5 m deep.	10 m	49.00	490.00
.6	450-mm dia pipes.			
	• Installed 0-2 m deep.	85 m	17.00	1,445.00
	• Installed 2-3 m deep.	25 m	58.00	1,450.00
.7	525-mm dia pipes.			
	• Installed 0-2 m deep.	60 m	14.50	870.00
	• Installed 2-3 m deep.	35 m	20.75	726.25

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Item	Description	Quantity	Unit Price	Extension
.8	600-mm dia pipes.	90 m	\$ 19.50	\$ 1,755.00
	. Installed 0-2 m deep.	5 m	25.50	127.50
	. Installed 2-3 m deep.	5 m	29.00	145.00
	. Installed 3-4 m deep.	15 m	36.50	547.50
	. Installed 4-5 m deep.			
.2	Multi-Pipe Trenches.			
.1	375-mm dia storm sewer.	35 m	16.25	568.75
	. Installed 0-2 m deep.	60 m	27.00	1,620.00
	. Installed 2-3 m deep.			
.2	525-mm dia storm sewer.	5 m	29.00	145.00
	. Installed 0-2 m deep.	30 m	32.50	975.00
	. Installed 2-3 m deep.	70 m	46.50	3,255.00
	. Installed 3-4 m deep.	10 m	55.00	550.00
	. Installed 4-5 m deep.			
2.4	Trench Rock Excavation. Section 2B.4.1.4. Price per cubic metre. (Provisional Quantity)	50 m ³	100.00	5,000.00
TOTAL PART 2.0- TRENCH EXCAVATION AND BACKFILL				
				\$ 50,847.50
<u>PART 3.0 - EXCAVATION AND EMBANKMENT CONSTRUCTION</u>				
3.1	Stripping. Section 2C.4.1.1. Price per cubic metre.	9400 m ³	3.71	34,874.00
3.2	Common Excavation. Section 2C.4.1.2. Price per cubic metre.	6550 m ³	4.08	26,724.00
3.3	Overexcavation. Section 2C.4.1.3. Price per cubic metre. (Provisional Quantity)	350 m ³	7.50	2,625.00

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Item	Description	Quantity	Unit Price	Extension
3.4	Embankment Construction. Section 2C.4.1.4. Price per cubic metre.			
.1	Using imported earth fill material. (Provisional Quantity)	1675 m ³	\$ 20.00	\$ 33,500.00
3.5	Subgrade Preparation. Section 2C.4.1.5. Price per square metre.	12800 m ²	0.22	2,816.00
TOTAL PART 3.0 - EXCAVATION AND EMBANKMENT CONSTRUCTION				\$ 100,539.00
PART 4.0 - SUBBASE AND BASE COURSE				
4.1	Overexcavation. Section 2D.4.1.1. Price per cubic metre. (Provisional Quantity)	175 m ³	6.00	1,050.00
4.2	Subbase Construction. Section 2D.4.1.2. Price per cubic metre.			
.1	200 mm thick subbase.	420 m ³	21.50	9,030.00
.2	300 mm thick subbase.	2700 m ³	20.50	55,350.00
.3	400 mm thick subbase.	880 m ³	20.50	18,070.00
4.3	Base Course Construction. Section 2D.4.1.3. Price per cubic metre.	1175 m ³	29.00	34,075.00
TOTAL PART 4.0- SUBBASE AND BASE COURSE				\$ 117,545.00

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Item	Description	Quantity	Unit Price	Extension
PART 5.0 - PORTLAND CEMENT CONCRETE SIDEWALK AND CURB AND GUTTER				
5.1	Curb and Gutter. (Type A or AX) Section 2E.4.1.2. Price per metre.	1975 m	\$ <u>24.65</u>	\$ <u>48,683.75</u>
5.2	Sidewalk. Section 2E.4.1.4. Price per square metre.	1965 m ²	<u>19.55</u>	<u>38,415.75</u>
TOTAL PART 5.0 - PORTLAND CEMENT CONCRETE SIDEWALK AND CURB AND GUTTER				
\$ <u><u>87,099.50</u></u>				
PART 6.0 - <u>ASPHALTIC CONCRETE PAVEMENT</u>				
6.1	Primer. Section 2F.4.1.2. Price per square metre. (Provisional Quantity)	11400 m ²	<u>0.75</u>	<u>8,550.00</u>
6.2	Lower Course Asphaltic Concrete. Section 2F.4.1.4. Price per square metre.	11400 m ²	<u>8.75</u>	<u>99,750.00</u>
TOTAL PART 6.0 - ASPHALTIC CONCRETE PAVEMENT				
\$ <u><u>108,300.00</u></u>				
PART 7.0 - <u>WATER SYSTEMS</u>				
7.1	Water Mains. Section 2J.4.1.1. Price per metre.	205 m	87.00	17,835.00
.1	250 mm dia water main.	850 m	<u>71.00</u>	<u>60,350.00</u>
.2	200 mm dia water main.	60 m	<u>54.00</u>	<u>3,240.00</u>
.3	150 mm dia water main.			

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Item	Description	Quantity	Unit Price	Extension
7.2 Fittings.				
Section 2J.4.1.2.				
Price per fitting.				
.1	250 TYT x 250 TYT x 150 FLG tee.	2 only	\$ 445.00	\$ 890.00
.2	200 TYT x 200 TYT x 200 FLG tee.	2 only	445.00	890.00
.3	200 TYT x 200 FLG x 150 FLG tee.	3 only	417.00	1,251.00
.4	200 TYT x 200 TYT 45° bend.	3 only	210.00	630.00
.5	200 TYT x 200 TYT 22.5° bend.	1 only	220.00	220.00
.6	200 TYT x 200 TYT x 150 FLG tee.	2 only	350.00	700.00
.7	200 FLG x 250 TYT x 200 FLG x 200 FLG cross.	1 only	900.00	900.00
.8	200 FLG x 200 TYT x 200 FLG x 150 FLG cross.	1 only	660.00	660.00
.9	250 TYT x 150 FLG reducer.	1 only	304.00	304.00
.10	200 cap.	3 only	150.00	450.00
.11	200 plug.	3 only	175.00	525.00
.12	150 cap.	1 only	120.00	120.00
7.3 Gate Valve and Valve Boxes.				
Section 2J.4.1.3.				
Price per gate valve.				
.1	150 mm gate valve.	8 only	525.00	4,200.00
.2	200 mm gate valve.	10 only	750.00	7,500.00
7.4 Hydrants.				
Section 2J.4.1.4.				
Price per hydrant.				
		7 only	1,720.00	12,040.00
TOTAL PART 7.0 - WATER SYSTEMS				
\$112,705.00				
PART 8.0 - STORM SEWER SYSTEMS				
8.1 Storm Sewers.				
Section 2K.4.1.1.				
Price per metre.				
.1	150 mm dia sewer (C.B. leads).	130 m	60.00	7,800.00
.2	200 mm dia sewer (incl. C.B. leads).	55 m	80.00	4,400.00

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Item	Description	Quantity	Unit Price	Extension
.3	250 mm dia sewer.	325 m	\$ 84.00	\$ 27,300.00
.4	300 mm dia sewer.	115 m	108.00	12,420.00
.5	375 mm dia sewer.	310 m	56.00	17,360.00
.6	450 mm dia sewer.	110 m	73.00	8,030.00
.7	525 mm dia sewer.	210 m	67.00	14,070.00
.8	600 mm dia sewer.	115 m	91.00	10,465.00
8.2	Manholes. Section 2K.4.1.2. Price per vertical metre.	33 vm	140.00	4,620.00
8.3	Concrete Bases, Frames and Covers. Section 2K.4.1.3. Price per manhole.	15 manholes	1,015.00	15,225.00
8.4	Catch Basins. Section 2K.4.1.4. Price per catch basin.	1 only 1 only 20 only 4 only	425.00 996.00 580.00 1,180.00	425.00 996.00 11,600.00 4,720.00
8.5	Drop Structures. Section 2K.4.1.6. Price per vertical metre.	4 vm	545.00	2,180.00
8.6	Anchor Blocks. Section 2K.4.1.7. Price per anchor block.	12 only	160.00	1,920.00
TOTAL PART 8.0 - STORM SEWER SYSTEMS				\$ 143,531.00
PART 9.0 - MISCELLANEOUS WORKS				
9.1	Drain Tile. Section 2L.4.1.1. Price per metre. (Provisional Quantity)	850 m	29.00	24,650.00

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Item	Description	Quantity	Unit Price	Extension
9.2	Storm System Inlet and Outlet Works. Section 2L.4.1.2. Lump sum prices.			
.1	Temporary inlet structure sta. 1+004.	LS		\$ 3,300.00
.2	Culvert inlet sta. 1+565.	LS		3,100.00
.3	Culvert outlet sta. 1+565.	LS		4,700.00
.4	Energy dissipating outlet structure downstream from DMH 40.	LS		20,600.00
.5	Energy dissipating outlet structure downstream from DMH 54.	LS		6,500.00
.6	Temp. inlet structure DMH 54.	LS		3,100.00
.7	Energy dissipating outlet structure downstream from DMH 50.	LS		6,500.00
9.3	Seeding. Section 2L.4.1.3. Price per square metre.	7400 m ²	\$ 0.60	4,440.00
TOTAL PART 9.0 - MISCELLANEOUS WORKS				\$ 76,890.00
PART 10.0 - SANITARY SEWER SYSTEMS				
10.1	Sanitary Sewers. Section 2M.4.1.1. Price per metre.			
.1	100 mm dia service.	25 m	36.00	900.00
.2	200 mm dia sewer.	710 m	46.50	33,015.00
10.2	Manholes. Section 2M.4.1.2. Price per vertical metre.	20 vm	140.00	2,800.00
10.3	Concrete Bases, Frames and Covers. Section 2M.4.1.3. Price per manhole.	10 only	767.00	7,670.00
10.4	Stubs. Section 2M.4.1.4. Price per stub.	1 only	290.00	290.00

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Item	Description	Quantity	Unit	Price	Extension
10.5	Drop Structures. Section 2M.4.1.5. Price per vertical metre.	2	vm	\$ 260.00	\$ 520.00
TOTAL PART 10.0 - SANITARY SEWER SYSTEMS					
				\$	<u>45,195.00</u>

**PART 11.0 -
B.C. TELEPHONE SYSTEMS**

11.1	B.C. Telephone Duct Banks. Section 2N.1.4.2.1. Price per metre.				
.1	2-way direct buried duct bank.	20	m	19.70	394.00
.2	3-way direct buried duct bank.	60	m	28.00	1,680.00
.3	6-way direct buried duct bank.	1100	m	53.00	58,300.00
.4	9-way direct buried duct bank.	30	m	65.00	1,950.00
.5	11-way direct buried duct bank.	50	m	90.00	4,500.00
.6	12-way direct buried duct bank.	25	m	115.00	2,875.00
.7	15-way direct buried duct bank.	15	m	135.00	2,025.00

**11.2 B.C. Telephone Manholes.
Section 2N.1.4.2.2.
Lump sum price.**

.1	Manhole No. 594.	LS	3,675.00
.2	Manhole No. 595.	LS	3,675.00
.3	Manhole No. 596.	LS	3,675.00
.4	Manhole No. 597.	LS	3,675.00

**11.3 B.C. Telephone SAC Pad.
Section 2N.1.4.2.3.
Lump sum price.**

LS	225.00
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**11.4 B.C. Telephone Drains.
Section 2N.1.4.2.4.
Price per metre.**

120 m	70.00	8,400.00
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Item	Description	Quantity	Unit Price	Extension
11.5	Concrete Encasement. Section 2N.1.4.2.5. Lump sum price.	LS		\$ <u>4,350.00</u>
TOTAL PART 11.0 -				
B.C. TELEPHONE SYSTEMS				
PART 12.0 -				
B.C. HYDRO SYSTEMS				
12.1	B.C. Hydro Duct Banks. Section 20.1.3.1.1 Price per metre.			
.1	1-way concrete encased duct bank.	75 m	\$ <u>28.50</u>	<u>2,137.50</u>
.2	2-way concrete encased duct bank.	5 m	<u>33.75</u>	<u>168.75</u>
.3	3-way concrete encased duct bank.	840 m	<u>49.50</u>	<u>41,580.00</u>
.4	6-way concrete encased duct bank.	560 m	<u>63.00</u>	<u>35,280.00</u>
.5	7-way concrete encased duct bank.	30 m	<u>95.50</u>	<u>2,865.00</u>
.6	12-way concrete encased duct bank.	10 m	<u>130.00</u>	<u>1,300.00</u>
12.2	B.C. Hydro Structures. Section 20.1.3.1.2. Lump sum price.			
.1	Pfllaster at Cumberland St.	LS		<u>225.00</u>
.2	Service Box at BCH sta. 8+47 (approx.).	LS		<u>150.00</u>
.3	Service Box at BCH sta. 12+55 (approx.).	LS		<u>150.00</u>
.4	Size 2 Pull Box.	LS		<u>975.00</u>
.5	JB 11976.	LS		<u>600.00</u>
.6	JB 12279.	LS		<u>600.00</u>
.7	JB 12281.	LS		<u>600.00</u>
.8	JB 12283.	LS		<u>600.00</u>
.9	JB 12290.	LS		<u>600.00</u>
.10	JB 12291.	LS		<u>600.00</u>

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Item	Description	Quantity	Unit Price	Extension
.11	JB 12298.	LS		\$ 600.00
.12	JB 12299.	LS		600.00
.13	JB 12707.	LS		600.00
.14	JB 12708.	LS		600.00
.15	LPT 12282.	LS		250.00
.16	LPT 12285.	LS		250.00
.17	SW 12280.	LS		375.00
.18	SW 12284.	LS		375.00

TOTAL PART 12.0 -

B.C. HYDRO SYSTEMS

\$92,081.25

PART 13.0 -
 BASIC ELECTRICAL MATERIALS AND METHODS

13.1 Street Lighting on 16th Avenue.
 Section 16B.4.1.1.
 Lump sum price.

LS 41,875.00

13.2 Light Poles on Cul-De-Sac.
 Section 16B.4.1.2.1.
 Price per pole.

4 only \$ 870.00 3,480.00

13.3 Light Pole Bases on Cul-De-Sac.
 Section 16B.4.1.2.2.
 Price per base.

4 only 180.00 720.00

13.4 Junction Boxes on Cul-De-Sac.
 Section 16B.4.1.2.3.
 Price per junction box.

2 only 40.00 80.00

13.5 Conduits and Conductors on
 Cul-De-Sac.
 Section 16B.4.1.2.4.
 Price per metre.

180 m 13.60 2,448.00

13.6 Conduits on Cul-De-Sac.
 Section 16B.4.1.2.5.
 Price per metre.

10 m 7.50 75.00

TOTAL PART 13.0 -

BASIC ELECTRICAL MATERIALS AND METHODS

\$48,678.00

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MANAGER'S REPORT NO. 47

COUNCIL MEETING 1988/07/11

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TENDER SUMMARY

PURCHASING AGENT'S
OFFICE



Total Part 1.0	Site Preparation	\$ 52,177.00
Total Part 2.0	Trench Excavation and Backfill	\$ 50,847.50
Total Part 3.0	Excavation and Embankment Construction	\$ 100,539.00
Total Part 4.0	Subbase and Base Course	\$ 117,545.00
Total Part 5.0	Portland Cement Concrete Sidewalk and Curb and Gutter	\$ 87,099.50
Total Part 6.0	Asphaltic Concrete Pavement	\$ 108,300.00
Total Part 7.0	Water Systems	\$ 112,705.00
Total Part 8.0	Storm Sewer Systems	\$ 143,531.00
Total Part 9.0	Miscellaneous Works	\$ 76,890.00
Total Part 10.0	Sanitary Sewer Systems	\$ 45,195.00
Total Part 11.0	B.C. Telephone Systems	\$ 99,399.00
Total Part 12.0	B.C. Hydro Systems	\$ 92,081.25
Total Part 13.0	Basic Electrical Materials and Methods	\$ 48,678.00
Total Part 14.0	Contingency Allowance*	\$ 75,000
	TOTAL TENDER . . .	\$ 1,209,987.25

* Payment of the Contingency Allowance or portions thereof will only be made in the event that the Engineer authorizes additional work, in which case the amount of the payment will be determined as specified in the General Conditions. Any unused portion thereof will be retained by the Owner.

