

RESOLUTION NO. 11-731

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
BLACK DIAMOND, KING COUNTY, WASHINGTON
AUTHORIZING A PROFESSIONAL SERVICES
AGREEMENT WITH PARAMETRIX FOR A NEW BLACK
DIAMOND REGIONAL TRANSPORTATION DEMAND
MODEL**

WHEREAS, the City of Black Diamond has selected Parametrix to provide transportation related consulting services for the City; and

WHEREAS, the City signed an On-call Transportation Services contract with Parametrix by Resolution No. 10-701; and

WHEREAS, the City Council, by Ordinances No. 10-946 and 10-947, approved The Villages and Lawson Hills Master Planned Developments, and Condition No.10 of Lawson Hills and Condition No. 11 of The Villages requires the City to create a new expanded Black Diamond Transportation Demand Model that extends from the northern city limit of Enumclaw on SR 169 to the northern city limit of Maple Valley, including all principal and minor arterials in Black Diamond, Covington, and Maple Valley, and the unincorporated areas between these cities, specifically, the Kent-Black Diamond Road, and the intersections of SE 231st Street/SR 18 westbound ramps, SR 169/SE 271st Street, and SR 169/SE 280th Street; and

WHEREAS, the City desires the basic structure of the model to be completed as a first phase early in the process for potential city use and to demonstrate good faith to meeting the Master Planned Development conditions of approval; and

WHEREAS, it is understood that the first phase will provide the basic structure of the transportation demand model around Black Diamond, but additional traffic monitoring and model calibration will be required to make the new traffic model fully operational; and

WHEREAS, The Villages Master Planned Development Applicant and the Lawson Hills Master Planned Development Applicant have committed to cover the cost of the new travel demand model;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, WASHINGTON, DOES RESOLVE AS FOLLOWS:

Section 1. The Mayor is authorized to execute the attached Task Order #5 of our existing On-call Transportation Engineering contract with Parametrix for \$16,842.85 to develop a new Black Diamond Regional Traffic Model, attached hereto.

PASSED BY THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, WASHINGTON, AT A REGULAR MEETING THEREOF, THIS 6TH DAY OF JANUARY, 2011.

CITY OF BLACK DIAMOND:



Rebecca Olness, Mayor

Attest:



Brenda L. Martinez, City Clerk

City of Black Diamond On-Call Task Request

Date:	12/21/10	City Staff Contact:	Seth Boettcher
Project Name:	Traffic Demand Model Update	Phone:	360-886-2560
Parametrix Project No.:	214-3043-010	Fax:	
Request Made To:	Austin Fisher		
Parametrix Phone:	253-604-6747		
Parametrix Fax:	253-604-6799		

Scope of Task Request

PHASE 1

New Regional Traffic Model for Black Diamond and Surrounding Area

INTRODUCTION AND BACKGROUND

The City of Black Diamond (City) City Council approved the two Master Planned Developments (MPDs) known as The Villages and Lawson Hills under Ordinances 10-946 and 10-947, which included a list of conditions that must be met. The purpose of this study is to address Condition 11 of the Villages MPD and Condition 10 of Lawson Hills MPD, which is summarized as follows:

- Create a new travel demand model that extends from the northern city limit Enumclaw on SR 169 to the northern city limit of Maple Valley. Within the expanded limits of the model, include all principal and minor arterials in Black Diamond, Covington, and Maple Valley and the unincorporated areas between these cities, and specifically the Kent-Black Diamond Road.
- In addition to the FEIS study intersections, include the following intersections:
SE 231st Street/SR 18 westbound ramps, SR 169/SE 271st Street, and SR 169/SE 280th Street.
- The new model must be calibrated and validated for existing traffic, based on traffic counts collected no more than 2 years prior to model creation.

Condition 17 of the Villages MPD and Condition 16 of Lawson Hills MPD states that the City shall validate and calibrate the new transportation demand model at a point where building permits have been issued for 850 dwelling units. Although 850 permitted homes is not expected for a few years, the City desires the basic structure of the model to be completed at this time to be available for City use. It is understood that the refining of the model to meet Conditions 16 and 17 of the Lawson Hills and Villages MPDs, respectively, will be completed at a later date.

To satisfy Condition 10 of Lawson Hills and Condition 11 of The Villages, the following scope of work was developed for the development of a regional model structure.

Exhibit "B"

SCOPE OF WORK

This scope of work consists of the following four (4) tasks:

- **Task 1** – Project Management and Administration
- **Task 2** – Project Meetings and Coordination
- **Task 3** – MPD Condition Model Revisions
- **Task 4** – Documentation

Task 1 – Project Management, Administration, and Meetings

Purpose: To ensure appropriate completion of the project scope within the allotted time schedule and financial budget. Coordinate and communicate any changes with the City's project manager throughout the duration of the project.

Approach: The following activities are associated with this task:

- Project setup and administration.
- Continuous monitoring of scope, schedule, and budget.
- Preparation of a monthly progress report and invoice describing work completed during the prior billing period and any project issues to be resolved.

Deliverables: The following deliverables are associated with this task:

- Monthly invoices and progress reports.

Task 2 – Project Meetings and Coordination

Purpose: To review progress, present findings, discuss potential revisions, and provide/receive comments on draft work.

Approach: The following activities are associated with this task:

- Attendance and participation at up to two (2) project team meetings.
- Email and telephone correspondence.

Assumptions: The following assumptions are associated with this task:

- Up to two (2) project team meetings are assumed to be held at a location in the vicinity of Black Diamond.
- Up to two (2) Parametrix staff are assumed to attend all project team meetings.

Deliverables: The following deliverables are associated with this task:

- No deliverables are specifically associated with this task.

Exhibit "B"

Task 3 – MPD Condition Model Revisions

Purpose: To provide the City with a revised travel demand model network and zone structure that meets the stipulations identified in Condition 11.

Approach: The following activities are associated with this task:

- Revise the City of Black Diamond current VISUM travel demand model structure to cover the enlarged geographic area.
- Add roadways such that all principal and minor arterials within Black Diamond, Covington, and Maple Valley are included.
- Ensure the following three intersections are included: SE 231st Street/ SR 18 westbound ramps, SR 169/SE 271st Street, and SR 169/SE 280th Street.
- Revise the traffic analysis zone structure and centroid connectors in areas outside of Black Diamond to match the expanded roadway network.

Assumptions: The following assumptions are associated with this task:

- Zone structure centroid connectors within Black Diamond will not be modified.
- Land use types and quantities will not be modified at this time.
- Traffic count volumes will not be updated at this time.
- Calibration and validation will not be performed at this time.
- Model distribution and assignment will not be run at this time.

Deliverables: The following deliverables are associated with this task:

- An updated travel demand model network and zone structure inclusive of the revisions described above.

Task 4 – Documentation

Purpose: To document revisions made to the travel demand model.

Approach: The following activities are associated with this task:

- Describe the revisions made to the demand model.

Assumptions: The following assumptions are associated with this task:

- The documentation effort shall consist of a technical memorandum.
- Up to two graphics will be used showing the revised network and zone structure, produced by the demand modeling software VISUM.

Deliverables: The following deliverables are associated with this task:

- A technical memorandum describing the revisions made to the travel demand model.

SCHEDULE

The draft technical memorandum in Task 4 will be completed by January 28, 2011.

Exhibit "B"

Budget Estimate:

Total not to exceed \$16,842.85

Fee Estimate

Cheri A. Pessemier	John N. Perlic	Peter J. Chen	Bellevue Word processing	Michele A. Chase
Project Accountant	Sr Consultant	Planner III	Bellevue Word processing	Project Coordinator

Labor		Burdened Rates:			\$85.00	\$215.00	\$105.00	\$78.00	\$85.00
Phase	Task	Description	Labor Dollars	Labor Hours					
		Demand Model Update	\$14,122.00	122	2	14	98	4	4
		<i>Project Management and Administration</i>	\$770.00	6	2	2			2
		<i>Meetings and Coordination</i>	\$2,560.00	16		8	8		
		<i>Condition 11 Model Revisions</i>	\$8,190.00	78			78		
		<i>Expand Geo Extent</i>	\$3,360.00	32			32		
		<i>All Principal and Minor Arterials</i>	\$4,410.00	42			42		
		<i>Add Intersections</i>	\$420.00	4			4		
		<i>Documentation</i>	\$2,602.00	22		4	12	4	2
		<i>Expenses</i>	\$0.00	0					
		<i>Subconsultant</i>	\$0.00	0					
Labor Totals:			\$0.00	0	0	0	0	0	0
					\$170.00	\$3,010.00	\$10,290.00	\$312.00	\$340.00

SUBCONSULTANTS

<u>Subconsultant Name</u>	<u>Amount</u>
NEW SUB03	\$2,640.00
Subconsultant Total:	\$2,640.00

DIRECT EXPENSES:

<u>Description</u>	<u>Amount</u>
Exp T05	\$80.85
Expense Total:	\$80.85
PROJECT TOTAL:	\$16,842.85

Task Request Approval:

	
Written Name	Title
	1-7-11
Signature	Date

*Costs are billed on a time and materials basis, Parametrix, Inc. shall notify the City should additional funds be necessary to complete the task order. Additional work beyond that which is ordered by the City shall not commence until written notification is received from the City.