



2004

# Apprenticeship Report



**King County**

**Business Development and Contract Compliance**

**Office of Business Relations and Economic Development**

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## EXECUTIVE SUMMARY



*King County's  
Apprenticeship Program  
provides an essential link  
between businesses and  
individuals seeking  
apprenticeship*

*opportunities to "earn while they learn."*

King County's economic future depends on the strength of our workforce. Our businesses need skilled workers to deliver the best quality jobs marked by knowledge, competence, and excellence. These characteristics give U.S. companies a competitive edge in the global marketplace. If we are to sustain this advantage, we must build a workforce that has the skills needed to compete effectively.

King County's Apprenticeship Program connects workforce development to economic needs by focusing on apprenticeship as an economic strategy for fostering family wage jobs. The program requires the use of apprentices on select County public works projects. It provides an essential link between businesses and individuals seeking apprenticeship opportunities to "earn while they learn."

Apprenticeships create doorways that provide equality of access for women and people of color to employment on county construction jobs. Many of today's highly skilled workers—carpenters, heavy equipment operators, and electricians—once passed through these doors as apprentices in the early years of the program. These individuals are contributing to the pool of skilled

labor in the local construction industry and the rise of a diverse workforce in our region.

The 2004 King County Apprenticeship Program began by introducing a change in how the county applies the apprenticeship ordinance. In the early years of the program, King County established apprenticeship *goals* on select construction projects that contractors aspired to achieve. Beginning with the 2004 program, King County now *requires* a specific level of apprenticeship on these contracts, and imposes sanctions for a contractor's failure to meet the requirement without acceptable justification.

In 2004, King County refined its reporting tools and made internal procedural changes to enhance monitoring efforts and communication with county departments. Departments' participation is vital to supporting the use of apprentices on contracts they administer.

In 2004, King County Apprenticeship results include:

- **An overall apprenticeship rate of 15.4%**
- **Six hundred ninety-two (692) apprentices performed work on county construction projects.**
- **30% participation by minority apprentices** for the first time since the start of King County's Apprenticeship Program

## REPORT OVERVIEW

King County establishes apprenticeship requirements on selected public works projects with estimated construction valued at greater than \$1 million dollars. The total labor hours and opportunity for training are the determining factors in the establishment of apprenticeship requirements. Construction projects valued at less than \$1 million dollars may be subject to the apprenticeship requirements if the project has a sufficient number of labor hours to support the use of apprentices.

This report details the performance of King County's Apprenticeship Program in 2004. It also provides statistics on the following:

- (a) The number and kinds of public works projects on which the County apprenticeship requirements were established;
- (b) The percentage of labor hours actually worked by apprentices on select County construction projects, and the total number of labor hours on each project;
- (c) The number of apprentices categorized by trade and craft, and the number and percentage of minorities, women, persons with disabilities and economically disadvantaged youth utilized as apprentices;
- (d) A description of problems encountered in implementing the apprenticeship requirements;
- (e) A description of barriers apprentices encounter, and the steps taken to resolve them.

King County does not monitor certified payrolls for contractors; therefore, this report does not include information on the wages paid by category of work or trade.

The report contains the following five sections plus appendices:

### **Section 1: Types of Public Works Projects Subject to the Apprenticeship Requirements**

Section 1 provides information on the type of public works projects subject to the County's apprenticeship requirements during the report period. This section includes data on the number of labor hours worked by apprentices and the total number of labor hours for these projects.

### **Section 2: Number of Public Works Projects Subject to the Apprenticeship Requirements including Total Apprentice Labor Hours**

Section 2 evaluates the number of public works projects subject to the County's apprenticeship requirements during the report period. This section includes data on the number of labor hours worked by apprentices and the total number of labor hours for these projects.

### **Section 3: Apprenticeship Utilization and Participation by Populations**

Section 3 evaluates the number and percentage of minorities, women, persons with disabilities and economically disadvantaged youth utilized as apprentices; the number of apprentices by trade and craft category; and the degree of contractor compliance with established hiring goals.

### **Section 4: Implementation Issues**

Section 4 includes information on the concerns encountered in the implementation of the County's Apprenticeship Program and actions undertaken to mitigate or resolve them.

### **Section 5: Number of Indentured Apprentices during the Report Period**

Section 5 contains information on the number of indentured apprentices resulting from the County's apprenticeship training requirements.

### **Appendices**

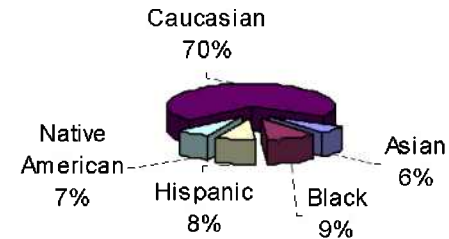
The appendices include a glossary of terms, as well as charts and tables providing important statistical information on the performance of apprenticeship requirements during the reporting period.



## General Summary

Total Labor Hours on KC Projects	748,623
Actual Apprentice Hours Worked	115,537
Actual Apprentice Hours Percentage	15.4%
Apprentice Hours Overall Goal at 15%	112,293
Over/under percentage goal	+0.4%
Number of Apprentices	692

## Apprentice Participation by Race



## Apprentice Population Summary

Population	Number	Hours	% Hours
Caucasian Men	493	71,442	61.8%
Caucasian Women	42	9,346	8.1%
<sup>1</sup> Disabled Persons	6	543	Not in total
Disadvantaged Youth	2	215	Not in total
Minority Men	145	30,775	26.6%
Minority Women	12	3,976	3.4%
<b>Subtotal Minorities</b>	<b>157</b>	<b>34,751</b>	<b>30.1%</b>

## Apprentice Hours by Race

	Asian	Black	Hispanic	Native
Minority Men	5,555	10,544	7,690	6,986
Minority Women	1,545	299	1,334	798
<b>Subtotal Minorities</b>	<b>7,100</b>	<b>10,843</b>	<b>9,024</b>	<b>7,784</b>
<b>% Apprentice Hours by Race:</b>	<b>6.1%</b>	<b>9.4%</b>	<b>7.8%</b>	<b>6.7%</b>

Department Summary	Projects	\$ Amount	Labor Hours	Number of Apprentices	Apprentice Hours	% Use
<b>Natural Resources and Parks (DNRP)</b>						
Wastewater Treatment Division	18	\$174,832,000	217,787	237	33,355	15.3%
Solid Waste Division	3	\$24,085,672	85,412	21	12,468	14.6%
<b>Subtotal</b>	<b>21</b>	<b>\$198,917,672</b>	<b>303,199</b>	<b>258</b>	<b>45,823</b>	<b>15.1%</b>
<b>Transportation (DOT)</b>						
Roads Division	6	\$23,811,315	122,935	63	13,042	10.6%
Transit Division	11	\$63,218,972	160,382	153	25,304	15.8%
King County International Airport	1	\$298,112	65	0	0	<sup>2</sup> not included in total
<b>Subtotal</b>	<b>18</b>	<b>\$87,303,287</b>	<b>283,382</b>	<b>216</b>	<b>38,346</b>	<b>13.5%</b>
<b>Executive Services (DES)</b>						
Facilities Management Division	5	\$53,217,393	162,042	218	31,368	19.4%
<b>All Departments Total</b>	<b>44</b>	<b>\$339,463,464</b>	<b>748,623</b>	<b>692</b>	<b>115,537</b>	<b>15.4%</b>

<sup>1</sup> The number and labor hours for Disabled Persons and Disadvantaged Youth are included in data reported for other populations.

<sup>2</sup> King County awarded this Airport contract in 2004 with construction to begin in 2005. Apprentices performed no labor hours on this project in 2004.

## **Section 1: TYPES OF PUBLIC WORKS SUBJECT TO THE COUNTY'S APPRENTICESHIP REQUIREMENTS**

Construction projects that are subject to King County's apprenticeship requirements generally fall within the following categories:

- I. Buildings - New construction
- II. Buildings – Alterations
- III. Highways and Bridges
- IV. Heavy Civil Construction

### **I. Buildings – New Construction**

These construction projects typically employ 12 to 18 different trades with opportunities for the use of apprentices in most of them. An apprenticeship requirement of 15% is realistic and achievable on these projects. King County's Combined Sewer Overflow (CSO) Control Facility is an example of a new construction project. The project employs 4 to 6 different trades each with opportunities for the use of apprentices.

### **II. Buildings – Alterations**

Building alteration projects typically employ 10 to 12 trades, and an apprenticeship requirement of 15% is realistic and attainable for these projects. The King County Courthouse Seismic Retrofit project valued at over \$50 million dollars is an example of a building alteration project.

### **III. Highways and Bridges**

The majority of apprentice hours on highway and bridge projects, including roads, paving, and park and ride lots; generally involve trades that include equipment operators and laborers. An apprenticeship requirement of 10 to 12% is realistic for these projects that employ equipment operators and laborers. County bridgework generally has Federal Highway Administration (FHWA) funds. King County's apprenticeship requirements do not apply to FHWA funded projects.

Parks and play fields also employ equipment operators and laborers. For these projects, workers are under the category of "landscape construction" for which there is no apprenticeship program. It is not practical to establish apprenticeship requirements for these projects.

### **IV. Heavy Civil Construction**

Heavy civil construction includes pipelines, tunnels, pump stations, and treatment plants. Tunnel and pipeline projects employ equipment operators and laborers with minimal participation from other trades. A 12% goal is more realistic on pipeline projects.

Pump stations typically employ 8 to 10 construction trades and are capable of achieving a 15% apprenticeship requirement. The Swayolocken pump station upgrade is an example of a heavy civil construction project.

## SUMMARY BY TRADE

Trade/Craft	Total Labor Hours	Apprentice Hours	% Apprentice Participation	Number of Apprentices
Acoustical Worker	4,326	472	10.9%	10
Boilermaker	2,116	0	0.0%	0
Bricklayer	4,485	668	14.9%	14
Carpenter	123,461	22,852	18.5%	83
Cement Mason	18,864	1,641	8.7%	13
Concrete Boom Pumper	287	0	0.0%	0
Diver	32	0	0.0%	0
Drywall Installer/Taper	14,346	1,041	7.3%	12
Electrical Line Worker	1,479	345	23.3%	2
Electrician	79,870	19,255	24.1%	137
Elevator Constructor	2,056	1,004	48.8%	7
Equipment Operator	132,710	15,043	11.3%	43
Fence Erector	5,181	0	0.0%	0
Flagger	8,070	0	0.0%	0
Floor Layer	144	0	0.0%	0
Glaziers	1,770	396	22.4%	11
HVAC (Sheet Metal)	20,637	3,854	18.7%	60
Insulation (Heat & Frost)	840	89	10.6%	3
Insulation Worker	288	305	106.1%	4
Iron Worker	37,081	6,853	18.5%	39
Irrigation Pump Installer	15	0	0.0%	0
Laborer	176,534	24,160	13.7%	99
Landscaper	9,531	0	0.0%	0
Millwright	155	0	0.0%	0
Other Trade	11,069	11	0.1%	19
Painter	6,889	1,437	20.9%	21
Pile Driver Operator	3,649	379	10.4%	6
Pipefitter	15,212	2,893	19.0%	16
Plasterer	678	0	0.0%	0
Plumber	23,039	5,880	25.5%	31
Roofer	3,332	1,157	34.7%	25
Sprinkler Fitter	6,310	2,267	35.9%	15
Stone Mason	1,597	430	26.9%	8
Surveyor	2,525	0	0.0%	0
Teamster/Truck Driver	24,757	1,664	6.7%	3
Telecommunications Technician	2,729	908	33.3%	3
Tile Finisher	1,158	482	41.6%	4
Tilessetter Installer	705	12	1.7%	1
Traffic Control Striper	682	42	6.1%	3
Well-drill operator	20	0	0.0%	0
<b>Grand Total</b>	<b>748,623</b>	<b>115,537</b>	<b>15.4%</b>	<b>692</b>

**Section 2: PUBLIC WORKS SUBJECT TO THE APPRENTICESHIP REQUIREMENTS AND TOTAL APPRENTICE LABOR HOURS**

King County achieved an overall apprenticeship rate of 15.4% for the report period. The number of contracts subject to the apprenticeship ordinance increased in 2004 as compared to the previous year. The table below illustrates achievements for the report period.

<b>Achievements</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>% Change from 2003</b>
<b>↓Decrease</b> in Total Labor Hours	433,441	931,504	<b>748,623</b>	-19.6%
<b>↓Decrease</b> in Total Apprentice Labor Hours	49,263	151,412	<b>115,537</b>	- 23.7%
<b>↓Decrease</b> in Apprentice Participation Rate	11.4%	16.3%	<b>15.4%</b>	- 0.9%
<b>↑Increase</b> in the Number of Apprentices Employed on County Projects	296	642	<b>692</b>	+7.2%

The number of King County construction contracts subject to the apprenticeship ordinance increased from 32 in 2003 to 44 in 2004.

The total number of labor hours for these projects decreased from 931,504 in 2003 to 748,623 in 2004. The decrease of 182,881 labor hours worked on these projects represents a decline of 19.6%. King County completed several projects executed in earlier years that included goals for the use of apprentices. Substantial completion of these contracts and the start of new ones still in the early stages of construction resulted in an overall decrease in the total number of labor hours and a corresponding reduction in the total number of apprentice labor hours.

Apprentices worked 115,537 total labor hours. In 2003, apprentices worked 151,412 labor hours. The decrease in the total number of labor hours worked by apprentices in 2004, as compared to the previous year, represents a 23.7% decrease.

In 2004, apprentices worked 15.4% of the total labor hours subject to the apprenticeship requirements, compared to 16.3% of all labor hours in 2003. This represents a 0.9% decrease in the overall apprenticeship participation rate in 2004 from the prior report period.

The number of apprentices performing work on county construction projects increased from 642 in 2003 to 692 in 2004. This change represents an increase of 7.2% in the number of participating apprentices in the County's Apprenticeship Program.

A contributing factor to achieving an overall apprentice participation rate of 15% is the number of apprentices employed on the King County Courthouse Seismic Retrofit Project. The \$50-\$60 million King County Courthouse Seismic Retrofit Project to upgrade safety standards in this historical building employed 210 apprentices during the report period. The project continues to boast the highest number of apprentices on a single county project again in 2004. The project employs more than a dozen trades that include carpentry, electrical, HVAC, painting, plumbing, and sheet metal. The prime contractor and its subcontractors achieved an overall apprentice participation rate of 19.3% on this project during the report period.

In addition to the King County Courthouse Seismic Retrofit Project, other major contributors include the Department of Transportation Transit Division's Ryerson Base Bus Parking Expansion project with overall apprentice utilization of 24.7%, and its International Airport Runway 31L Safety Area Improvements project with 21.0% overall apprentice participation at the end of the 2004 report period.

The cycle of major construction projects is also a main contributor to the apprenticeship program. An example of the impact of major construction projects on the outcomes of the apprenticeship program is seen in the Denny Way/Lake Union Combined Sewer Overflow (CSO) project. The Denny Way/Lake Union CSO project consists of five major contracts. Three of the five projects were active in 2001. All five projects were active in 2002. In 2003, and again in 2004, only three of the five projects were active.

The Henderson MLK/CSO Project Tunnel and Pipelines is an example of a large major construction project that was active during 2004. During the report period, this project generated 55,055 total labor hours, to include 7,286.5 apprentice labor hours, and an overall apprentice participation rate of 13.2%.

King County projects anticipated to generate significant numbers of labor hours in the upcoming 2005 and 2006 year include the King County new regional wastewater treatment plant called, "Brightwater".

## POPULATIONS

The populations in King County's Apprenticeship Program consist of six groups:

1. Caucasian Men
2. Minority Men
3. Minority Women
4. Caucasian Women
5. Economically Disadvantaged Youth
6. Disabled persons

During the report period, the total number of labor hours worked by all apprentices decreased from the previous year. In addition, the number of total labor hours worked by women and minority men apprentices decreased from 51,952 in 2003 to 34,751 in 2004. Due to an overall reduction in the number of apprentice labor hours worked by white male apprentices, as compared to the 2003 program year, the overall participation rate of minority apprentices climbed to 30% for the first time since King County's apprenticeship program began in 1997. It is important to note that included in the total labor hours worked by women apprentices are the numbers of labor hours worked by minority women.

Table-1 below contains data on the number of labor hours worked by members of each group and the percent of change between the year 2003 and 2004.

**Table 1- Apprentice Labor Hours Worked by Groups**

Population	2003	2004	% Change	2003	2004	% Change
	No. Persons			Labor Hours		
Caucasian Men	431	493	+12.6%	99,460	80,786	-18.8%
Minority Men	163	145	-11.0%	37,938	30,775	-18.9%
Minority Women	9	12	+25.0%	3,639	3,976	+9.3%
Caucasian Women	39	42	+7.1%	10,375	9,346	-9.9%
Economically Disadvantaged Youth	3	2	-33.3%	24	215	+795.8%
Disabled	0	6	+600%	0	543	+543%

Table-2 below contains data on the participation rate of members of each group and the percent of change between the year 2003 and 2004.

**Table 2 - Apprentice Participation Rate of Groups**

Population	2003	2004	% Change
	Participation Rate		
Caucasian Men	66%	61.8%	-4.2%
Minority Men	25%	26.6%	+1.6%
Minority Women	2%	3.4%	+1.4%
Caucasian Women	7%	8.1%	+1.1%
*Economically Disadvantaged Youth	n/a	0.2%	0.2%
*Disabled	0%	0.5%	+0.5%

\*The number and labor hours for Disabled Persons and Disadvantaged Youth are included in data reported for other populations.

Table 2 – “Apprentice Participation Rate of Groups”, illustrates the modest gains made each year in the diversity of King County’s apprentice population. The participation rate for minorities, women, and disadvantaged youth has increased marginally while the rate of participation for Caucasian men has decreased. The data is reflective of the 2000 Census, which reports that 27% of King County residents are persons of color.

The increased diversity of our region’s workforce presents new challenges for programs that educate and train workers. The number of apprentices employed on County construction projects increased by 7.2% in 2004. This change is indicative of a general increase in the number of construction workers. This change is seen in the disproportional numbers of male apprentices, to include minority males, while the numbers of minority females as apprentices continue to move forward slowly. A cause of the failure for the number of women apprentices to increase is not explainable by a lack of jobs. The lack of representation by women in apprenticeship programs remains a continuing concern.



The rate of participation for minority women apprentices has remained relatively constant for the 2003 and 2004 program years. Since the program’s inception in 1998, the participation rate for minority women has remained between 2% to 3% of the total labor hours worked by all apprentices. The participation rate of minority women declined from 3% in 2001 to minimal participation (two minority women worked 24 hours) in 2002. In 2003, the participation rate for minority women increased modestly to 2.4%. In 2003, the number of labor hours worked by minority women increased dramatically from 24 hours in 2002 to 3,639 as shown in Table-1 – Apprentice Labor Hours Worked by Groups. In 2004, minority women performed 3,976 hours as

compared to 3,639 in 2003; this change represents a gain of 1.4% over the previous program year.

Contractors are instructed to assess eligibility for members of these groups by talking directly to the apprentice to determine his or her qualification as a member of either group (economically disadvantaged youth or disabled). The criteria for eligibility include income level and number of persons in the family, among other factors. Contractors are reluctant to ask questions that probe into these sensitive areas in order to identify members of these two groups. Although the data is speculative, anecdotal evidence supports this assumption.

The apprentice participation rate for Caucasian men decreased from 66% in 2003 to 61.8% in 2004. This change represents a decrease of 4.2% in the participation rate of this group. The apprentice participation rate for Caucasian women increased from 7% in 2003 to 8.1% in 2004. This change represents an increase of 1.1%% in the participation rate of this group.



## Section 4: IMPLEMENTATION ISSUES

### I. Non-compliance of Apprentice Utilization Rates by Contractors

The 2004 program year was marked by transition. The 2004 Apprenticeship Program began with the introduction of a change in the how the county applies the apprenticeship ordinance to select construction contracts. The change is a shift from establishing an apprenticeship 'goal', which contractors aspired to achieve, to a 'required' level of apprentice participation for which sanctions may apply for a contractor's failure to meet it without acceptable justification.

#### b) Contracts Awarded After January 1, 2004

To participate in the Apprenticeship Program, prime contractors and their subcontractors are required to achieve an established apprenticeship requirement stated as a percent of the total labor hours for the project. The program contains provisions for contractors who encounter situations in which they are unable to procure enough apprentices to meet the established requirement. This change does not apply to projects awarded before January 1, 2004.

#### c) Cycle of Construction Projects

The cycle of construction projects has an impact on the overall apprenticeship rate. Many of the larger public works projects active in 2004 are multi-year projects awarded in earlier years. Some projects will extend beyond 2005. In addition, a percent of all contracts awarded during the report period is still in the beginning phase of construction. Prime contractors and their subcontractors will hire additional apprentices at later stages in the construction process. For other projects, contractors simply have not considered compliance with the apprenticeship requirement a priority, and therefore have not complied.

#### d) ESTABLISHMENT OF APPRENTICESHIP REQUIREMENTS

King County uses a process to establish apprenticeship requirements that permits flexibility in determining the level of use for apprentices based on the contract size and scope. This process ensures that the set level of utilization is realistic and consistent with the scope of work, trades, and crafts involved in the project. Contractors and their subcontractors commit to the established apprenticeship requirements for projects; some do not meet these requirements.

### APPRENTICESHIP UTILIZATION PLANS

In the past, contractors often submitted Apprenticeship Utilization Plans (AUP) that identified achievement of the apprenticeship goal, regardless of whether they could actually achieve it. King County now only accepts the AUP after the prime contractor has identified all proposed subcontractors who have committed to using apprentices to achieve the established requirements, and when the plan is reasonable and attainable.

In addition, King County has implemented the use of sanctions against contractors who fail to comply with the established apprenticeship requirements. Sanctions include the use of liquidated damages specified in the contract, and in extreme cases of violation, will include debarment.

## **II. Monthly Apprentice Utilization Reports**

Monthly Apprenticeship Utilization Reports are required from all prime contractors, for themselves and their subcontractors. These reports contain data that enables the County to determine the overall apprenticeship rate for each contract that includes the apprenticeship requirements. Early communication between the County and its contractors enables timely intervention by County project management staff to assist contractors in their Best Efforts to meet the apprenticeship requirements established on their contracts.

During the report period, King County refined its existing reporting tools and conducted one-on-one training with contractors on how to use its web-based reporting website to meet their reporting requirements. Increased communication with contractors coupled with improvements to the web-based reporting site have increased contractor compliance with established reporting timelines. The number of monthly reports submitted from contractors via the US mail has decreased substantially. Online reporting eliminates the need to enter the data manually.

During the report period, King County continued to engage the involvement of project management staff, and others involved in the administration of public works that include the apprenticeship requirements. Project staff provides input on the appropriate level of apprentice use for projects that they administer. Selected projects were of size and scope to provide meaningful opportunities for the use of apprentices. They are typically over \$1 million dollars, and supported by a sufficient number of labor hours to achieve the requirements.

County Contract Compliance staff continues to participate in an increased number of pre-bid and pre-construction meetings to discuss the apprenticeship requirements and provide information to contractors on the importance of submitting accurate and timely reports.

## **III. Challenges Encountered by Participating Apprentices**

King County Code 12.16.175 requires that the program Administrator provide a description of the barriers encountered by apprentices and the steps taken toward resolution of those problems. A means to capture and resolve potential issues encountered by apprentices to encourage their continued participation in the program is

a continuing challenge for King County and other jurisdictions that administer apprenticeship programs.

King County is supportive of pre-apprenticeship training programs that support the pipeline of new apprentices by extending training opportunities through area high schools, community colleges and technical colleges and community organizations. King County also provides annual financial support to the office of Port Jobs that supports the Apprenticeship Opportunities Project (AOP). The AOP helps people in King County prepare for and apply to apprenticeship programs in construction work.

**5:  
PERIOD**

The Washington State Department of Labor and Industries, through the Washington State Apprenticeship and Training Council (SAC) collects and tracks statistics on the number of newly indentured and graduated apprentices.

Data regarding the number of indentured apprentices into SAC approved apprenticeship programs and the number of apprentices graduating to journey level status who performed work on King County projects was unavailable at the time of this report.

## APPENDIX A: GLOSSARY

### ACRONYMS

<b>AOP</b>	Apprenticeship Opportunities Project
<b>AUP</b>	Apprentice Utilization Plan
<b>AUR</b>	Apprentice Utilization Report
<b>CITC</b>	Construction Industry Training Council
<b>CSO</b>	Combined Sewer Overflow
<b>DNRP</b>	Department of Natural Resources and Parks
<b>DOT</b>	Department of Transportation
<b>EDY</b>	Economically Disadvantaged Youth
<b>FHWA</b>	Federal Highway Administration
<b>FMD</b>	Facilities Management Division
<b>MUR</b>	Monthly Utilization Report
<b>PWD</b>	Persons with Disabilities
<b>SAC</b>	Washington State Apprenticeship and Training Council

**DEFINITIONS****Administrator**

The Director of King County's Office of Business Relations and Economic Development.

**Apprentice**

A person who has signed a written Apprenticeship Agreement and enrolled in a training program approved by the Washington State Apprenticeship and Training Council to learn a skilled craft or trade.

**Apprentice Hiring Goal(s)**

The specific goals established by the County for persons with disabilities, economically disadvantaged youth, women and minorities to participate as apprentices on county public work contracts. The goals are stated as a percent of the Apprentice Utilization Requirements for the Contract.

**Apprenticeship Program**

The County's plan for administering King County Code 12.16.150-180 and setting forth compliance requirements for Apprentice Utilization on selected County public work contracts.

**Apprentice Program Requirements**

All actions and efforts required by the contractor as defined by King County Code 12.16.150-180 and the contract language for specific King County contracts.

**Apprentice Utilization Requirements**

The overall percentage of labor hours established for the Contract to be worked by apprentices. The requirement is stated as a percentage of the total labor hours for the Contract.

**Best Efforts**

The strongest possible efforts that Contractors can reasonably make to meet the Apprentice Utilization Requirements and the Apprentice Hiring Goals established for each public works contract selected for participation in the Apprenticeship Program.

**Economically Disadvantaged Youth**

Those persons (18-24 years old) whose annual family income does not exceed the income guidelines for the Federal Free and Reduced Lunch Program, and who have significant barriers to employment, as defined by the Federal Job Training Partnership Act (JTPA).

**Labor Hours**

The total number of projected hours or actual hours for all trades or crafts worked by persons receiving an hourly wage who are directly employed on the site of a public works project. This shall also include hours worked by persons employed by subcontractors on the project.

**APPENDIX B: PROJECTS SUBJECT TO APPRENTICESHIP REQUIREMENTS IN  
2004**

The following tables provide information on public works projects subject to the apprenticeship requirements during the report period. These tables include statistical data on the percentage of labor hours performed by apprentices and the total number of project labor hours worked for the period January 1, 2004 through December 31, 2004.

In addition, each table reports data on the cumulative apprenticeship rate for each project as of December 31, 2004.

**APPENDIX B Projects:  
North Creek Storage Facility**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: North Creek Storage Facility  
 Contract Number: C13008C  
 Prime Contractor: Frank Coluccio  
 Contract Award Amount: \$18,232,000  
 Date Bid: August 28, 2001  
 Type of Construction: Buildings- New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 12.58%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 15.90%

The work under this contract consists of a 6 million gallon underground reinforced concrete wastewater storage facility, a tank drainage system consisting of 4 submersible pumps, an above grade electrical room and two above grade stair towers, an odor control and ventilation system, a 54 inch diameter sanitary sewer, a 42 inch sanitary sewer, manholes, landscaping, irrigation system, an underground reinforced concrete diversion structure, mechanical gates and cleaning system, and instrumentation and control system.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	642.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	362.50	145.50	40.14%	2	0.00	0.00%	42.00	28.87%
Labor	152.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,156.50</b>	<b>145.50</b>	<b>12.58%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>42.00</b>	<b>28.87%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B Projects:  
Sweylocken Pump Station Upgrade

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Sweylocken Pump Station Upgrade  
 Contract Number: C23046C  
 Prime Contractor: Robison Construction  
 Contract Award Amount: \$6,241,969.00  
 Date Bid: October 1, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 15.57%  
**Construction Completed:** 96.00%  
 \*\*\*Cumulative Apprenticeship Rate: 11.30%

Work under this contract includes: initial site preparation, construction of a temporary bypass pumping station, demolition/salvage of selected components of the existing pump station. Renovation of the existing pump station includes replacement of pumps and pumping system, replacement of heating, cooling, ventilation, utility and electrical systems and controls; and construction of a new wetwall and station superstructure. There will also be a new generator building including diesel generator, above ground fuel storage tank, operator wash facilities and switchgear components. Major onsite pipeline work entails construction of gravity sewer lines, forcemains, bypass lines, deep vault, and watermains. There will also be an outdoor odor control facility constructed; site surface improvements including fencing and landscaping, and disposal of construction debris.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Boilermaker	130.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	2,271.00	780.00	34.35%	2	0.00	0.00%	756.00	96.92%
Cement Mason	18.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	11.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Drywall Installer/taper	101.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	184.00	136.00	73.91%	2	0.00	0.00%	0.00	0.00%
Equipment Operator	322.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	452.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation (Heat & Frost)	32.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation Worker	38.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	30.50	5.50	18.03%	1	0.00	0.00%	5.50	100.00%
Irrigation Pump Installer	4.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	2,655.00	42.00	1.58%	1	0.00	0.00%	0.00	0.00%
Other Trade	6.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	184.50	64.00	34.69%	2	0.00	0.00%	39.50	61.72%
Pipefitter	30.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	36.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	94.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Well-drill operator	1.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>6,601.00</b>	<b>1,027.50</b>	<b>15.57%</b>	<b>8</b>	<b>0.00</b>	<b>0.00%</b>	<b>801.00</b>	<b>77.96%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
South Plant Fuel Cell Installation

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Plant Fuel Cell Installation  
 Contract Number: C23050C  
 Prime Contractor: Hawk Mechanical  
 Contract Award Amount: \$1,753,840  
 Date Bid: September 24, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 7.03%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 16.90%

The work under this contract includes but is not limited to: Providing clearing, grubbing, demolition of old concrete, provide reinforced concrete equipment pads for support of the fuel cell and heat recovery equipment; placing owner-furnished fuel cell equipment on equipment pads, provide buried and above ground digester gas piping between the gas burner complex and fuel cell equipment pad, provide transformer with all electrical panels, and provide all other civil, mechanical and electrical work necessary to complete the work called for in the contract specifications.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	448.00	41.00	9.15%	1	0.00	0.00%	0.00	0.00%
Insulation (Heat & Frost)	464.00	36.00	7.76%	1	0.00	0.00%	0.00	0.00%
Laborer	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	729.00	39.00	5.35%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,649.00</b>	<b>116.00</b>	<b>7.03%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B Projects:  
South Plant Install High Solids Dewatering Centrifuges**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: S. Plant Install High Solids Dewatering Centrifuges  
 Contract Number: C23097C  
 Prime Contractor: Cree Construction Co., Inc.  
 Contract Award Amount: \$8,436,570  
 Date Bid: February 13, 2003  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 20.80%  
**Construction Completed:** 87.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 20.70%

The work under this contract includes the installation of three new high-solid centrifuges in an Expanded Biosolids Dewatering Building at the South Treatment Plant. The building will require an expansion of approximately 4600 square feet and the truck loading scales and bays will be fully expanded. Apprentice participation is expected in (but not limited to): carpentry, electrical, iron work, labor, plumbing, roofing, sprinkler fitter, and sheetmetal trades.

#### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	19.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Bricklayer	806.50	30.00	3.72%	1	0.00	0.00%	0.00	0.00%
Carpenter	9,197.50	2,952.00	32.10%	8	0.00	0.00%	183.00	6.20%
Cement Mason	1,990.50	26.00	1.31%	1	0.00	0.00%	0.00	0.00%
Drywall Installer/taper	124.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	6,771.50	632.00	9.33%	7	0.00	0.00%	104.00	16.46%
Equipment Operator	75.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glaziers	244.63	11.75	4.80%	1	11.75	100.00%	0.00	0.00%
HVAC (Sheet Metal)	1,205.00	41.00	3.40%	2	0.00	0.00%	0.00	0.00%
Insulation Heat Frost	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation Worker	94.00	42.00	44.68%	3	0.00	0.00%	0.00	0.00%
Iron Worker	1,163.00	96.00	8.25%	3	43.00	44.79%	24.00	25.00%
Laborer	3,737.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	1,352.25	641.50	47.44%	10	0.00	0.00%	0.00	0.00%
Painter	522.00	124.50	23.85%	4	108.50	87.15%	0.00	0.00%
Pipefitter	3,230.50	1,815.50	56.20%	12	0.00	0.00%	0.00	0.00%
Plasterer	337.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	3,718.50	994.00	26.73%	4	0.00	0.00%	0.00	0.00%
Roofer	1,094.50	42.00	3.84%	5	0.00	0.00%	42.00	100.00%
Sprinkler Fitter	116.00	12.00	10.34%	2	0.00	0.00%	4.00	33.33%
Teamster/Truck Driver	36.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Telecomm Tech	15.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>35,858.38</b>	<b>7,460.25</b>	<b>20.80%</b>	<b>63</b>	<b>163.25</b>	<b>2.19%</b>	<b>357.00</b>	<b>4.79%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
Elliott West CSO Control Facility

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Elliot West CSO Control Facility  
 Contract Number: C93002C  
 Prime Contractor: Robison Construction  
 Contract Award Amount: \$16,244,300  
 Date Bid: May 9, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 15.34%  
**Construction Completed:** 88.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.10%

The construction of the Elliot West CSO control facility includes building a pump station with a wet well, dry well, electrical room, and mechanical room. Also, maintain and monitor shoring and dewatering system installed under the Mercer Street Tunnel contract. The excavation, shoring, and dewatering system will remain in place for use by the Elliott West CSO Control Facility contract, CSO treatment area, chemical storage area and odor control area, and construction of an addition to the Denny Regulator. This contract also includes instrumentation, controls, and commissioning for the facility and related structures in the vicinity, and also for the East Portal/Drop Structure and the Lake Union Tunnel Regulator.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Boilermaker	1,479.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Bricklayer	1,635.50	122.00	7.46%	3	0.00	0.00%	0.00	0.00%
Carpenter	16,192.00	5,891.00	36.38%	13	1,807.00	30.67%	2,309.50	39.20%
Cement Mason	2,995.25	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	176.75	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrical Lineworker	1,307.00	345.00	26.40%	2	0.00	0.00%	0.00	0.00%
Electrician	6,487.00	2,535.00	39.08%	10	400.00	15.78%	515.00	20.32%
Elevator Constructor	8.00	4.00	50.00%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	3,114.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	18.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glaziers	42.00	2.00	4.76%	1	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	3,003.40	253.70	8.45%	11	0.00	0.00%	0.00	0.00%
Insulation Worker	20.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	1,362.50	96.00	7.05%	3	0.00	0.00%	90.00	93.75%
Laborer	18,489.50	63.00	0.34%	1	0.00	0.00%	42.50	67.46%
Other Trade	32.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	2,147.00	675.50	31.46%	9	9.50	1.41%	351.50	52.04%
Pipefitter	5,402.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	1,116.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	1,672.00	316.50	18.93%	8	0.00	0.00%	108.00	34.12%
Sprinkler Fitter	324.00	69.00	21.30%	1	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	574.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Telecommunications	3.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>67,601.40</b>	<b>10,372.70</b>	<b>15.34%</b>	<b>63</b>	<b>2,216.50</b>	<b>21.37%</b>	<b>3,416.50</b>	<b>32.94%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
Henderson Street Pump Station

Department Name: Department of Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Henderson Street Pump Station  
 Contract Number: C93006C  
 Prime Contractor: Strider Construction, Inc.  
 Contract Award Amount: \$38,000,000  
 Date Bid: June 18, 2001  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 0.82%  
**Construction Completed:** 99.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.80%

The scope of this Contract includes upgrading King County's existing Henderson Street Pumping Station. Work includes construction of temporary pumping facilities; construction of a new below grade wet well; replacement of existing pumping equipment; replacement and improvement of electrical and instrumentation equipment; replacement of existing suction and discharge piping; installation of new heating and ventilation equipment; installation of new odor scrubbing equipment; installation of new generator room and standby generator; and modifications to existing sewer structures and piping. The prime contractor projected apprentice participation from carpentry and masonry.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	34.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	282.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Diver	32.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	282.50	1.00	0.35%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	34.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	26.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	56.75	8.00	14.10%	1	0.00	0.00%	0.00	0.00%
Insulation (Heat & Frost) Worker	2.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	62.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	130.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	126.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	23.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	7.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,097.25</b>	<b>9.00</b>	<b>0.82%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
Henderson / MLK Tunnels & Pipeline

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Henderson/MLK Tunnels & Pipeline  
 Contract Number: C93007C  
 Prime Contractor: Tri-State Construction  
 Contract Award Amount: \$41,759,995  
 Date Bid: January 15, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 13.23%  
**Construction Completed:** 93.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 11.40%

The work to be performed under this contract includes construction of a concrete-lined storage/treatment tunnel, an inlet regulator structure, an outlet regulator structure, two new 1900 foot long forcemains, 4100 feet of open cut gravity sewer, 5235 linear feet of tunnel, and 550 feet of storm sewer. Work includes installation of sluice gates, overflow weir, and flow meters, HVAC and plumbing systems, diesel standby generators, electrical and instrumentation systems, site utilities, concrete structures, site utilities, pile supported bridge structures, paving, irrigation and landscaping.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	266.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	20,199.00	2,622.50	12.98%	3	568.50	21.68%	2,054.00	78.32%
Cement Mason	1,324.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	2,608.00	716.00	27.45%	6	160.00	22.35%	190.00	26.54%
Equipment Operator	6,978.50	252.00	3.61%	6	0.00	0.00%	0.00	0.00%
Flagger	634.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	2,077.50	74.00	3.56%	3	0.00	0.00%	8.00	10.81%
Laborer	19,356.00	3,281.00	16.95%	14	0.00	0.00%	1,686.00	51.39%
Millwright	155.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	106.50	52.50	49.30%	2	0.00	0.00%	0.00	0.00%
Painter	242.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	714.50	286.00	40.03%	1	0.00	0.00%	286.00	100.00%
Roofer	8.50	2.50	29.41%	1	0.00	0.00%	2.50	100.00%
Surveyor	256.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	128.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>55,055.00</b>	<b>7,286.50</b>	<b>13.23%</b>	<b>36</b>	<b>728.50</b>	<b>10.00%</b>	<b>4,226.50</b>	<b>58.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B Projects  
South Lake Union Pipelines**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Lake Union Pipelines  
 Contract Number: C93010C  
 Prime Contractor: Frank Coluccio Inc.  
 Contract Award Amount: \$9,939,000  
 Date Bid: February 5, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 11.90%  
**Construction Completed:** 95.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 11.90%

The work under this contract included excavating, shoring, de-watering and structure completion for Central Trunk Diversion Structure, Lake Union Tunnel Regulator, Valley Connection manholes, and pipeline and utility work; construction of pipe for the South Lake Union, Valley Connection, and the Lake Union Tunnel pipelines using jacked-pipe tunnel methods; construction of pipe for the Central Trunk Pipeline using open cut methods; construct pipe for the East Tunnel Portal, and connect certain of these structures to existing sewer trunks.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Boilermaker	89.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	940.50	319.50	33.97%	2	0.00	0.00%	0.00	0.00%
Cement Mason	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	1,182.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	578.50	77.00	13.31%	4	0.00	0.00%	48.00	62.34%
Laborer	1,438.00	112.00	7.79%	1	0.00	0.00%	0.00	0.00%
Other Trade	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	30.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	26.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,340.50</b>	<b>508.50</b>	<b>11.72%</b>	<b>7</b>	<b>0.00</b>	<b>0.00%</b>	<b>48.00</b>	<b>9.44%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B Projects  
**Renton Transfer Station Roof Replacement**

Department Name: Natural Resources & Parks  
 Division: Solid Waste  
 Project Name: Renton Transfer Station Roof Replacement  
 Contract Number: C33055C  
 Prime Contractor: Interwest Construction  
 Contract Award Amount: \$1,106,346  
 Date Bid: April 22, 2003  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 19.50%

The Prime contractor projected apprentice participation from the following trades: Carpentry, Electrical, Equipment Operator, Iron Worker, Painting, Sheetmetal. Work on this contract included demolition and replacement of existing roof structure; installation of concrete catwalks, mechanical piping; light fixtures, electrical work, and lead abatement. Demolition of scalehouse, foundation and shed, removal of asphalt/concrete, installation of furnished scalehouse, HVAC system, installation of mechanical filter, asbestos abatement; and installation of a diesel generator and above-ground tank.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	1.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>9.50</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
**Cedar Hills Landfill & Offsite Facilities SCADA**

Department Name: Natural Resources & Parks  
 Division: Solid Waste  
 Project Name: Cedar Hills Landfill & Offsite Facilities SCADA  
 Contract Number: C33058C  
 Prime Contractor: TSI  
 Contract Award Amount: \$724,846  
 Date Bid: July 3, 2003  
 Type of Construction: Buildings-Alterations

**Apprenticeship Requirement:** 9%  
**2004 Apprenticeship Rate:** 14.86%  
**Construction Completed:** 98%

The work under this contract includes providing new leachate pump control panels, radio connections to the existing LAN/WAN and other hardware installations to create a full functional supervisory control and data acquisition system at the King County Solid Waste Division sites with environmental control systems.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	1,373.00	204.00	14.86%	6	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,373.00</b>	<b>204.00</b>	<b>14.86%</b>	<b>6</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
Cedar Hills Landfill

Department Name: Natural Resources & Parks  
 Division: Solid Waste  
 Project Name: Cedar Hills Landfill  
 Contract Number: C33089C  
 Prime Contractor: Robison construction Inc.  
 Contract Award Amount: \$22,254,480  
 Date Bid: July 31, 2003  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 9.00%  
**2004 Apprenticeship Rate:** 14.59%  
**Construction Completed:** 91.00%  
 \*\*\*Cumulative Apprenticeship Rate: 10.40%

The work under this contract includes; grading, compacting, trenching, backfilling soils, erosion and sedimentation control, installing geosynthetic materials and pipes, constructing extraction wells and pumping facilities, boring and jacking, constructing a new refuse disposal area, and staging the closure of the existing refuse disposal area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	644.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operater	58,712.25	11,186.00	19.05%	9	708.00	6.33%	5,333.00	47.68%
Fence Erector	21.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	25.00	25.00	100.00%	2	0.00	0.00%	0.00	0.00%
Laborer	19,360.00	1,053.00	5.44%	4	636.00	60.40%	403.00	0.00%
Landscaper	381.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	452.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	1,033.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	3,401.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>84,029.75</b>	<b>12,264.00</b>	<b>14.59%</b>	<b>15</b>	<b>1,344.00</b>	<b>10.96%</b>	<b>5,736.00</b>	<b>46.77%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B Projects:  
East Base Remodel**

Department Name: Transportation  
 Division: Transit  
 Project Name: East Base Remodel  
 Contract Number: C23006C  
 Prime Contractor: Powell Construction  
 Contract Award Amount: \$2,863,298  
 Date Bid: November 21, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 11.44%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 13.70%

The work under this contract includes but is not limited to remodeling a portion of the Operations building and Vehicle Maintenance building at King County Metro Transit's East Operation Base. The improvements at the Operations building include adding approximately 3442 square feet of new floor area at the main entrance to the building and on the opposite side, and interior of the building. The improvements within the Vehicle Maintenance building include expanding the existing mezzanine level. The improvement also adds approximately 1253 square feet of work area. The project includes redesign of existing landscaping and results in the loss of approximately 1702 square feet of previously landscaped area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	42.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	244.50	26.00	10.63%	3	0.00	0.00%	26.00	100.00%
Drywall Installer/Taper	62.00	31.00	50.00%	1	0.00	0.00%	0.00	0.00%
Electrician	34.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glaziers	18.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	95.50	15.00	15.71%	1	0.00	0.00%	0.00	0.00%
Irrigation Pump Installation	2.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	111.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Landscaper	2.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	16.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	2.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>629.50</b>	<b>72.00</b>	<b>11.44%</b>	<b>5</b>	<b>0.00</b>	<b>0.00%</b>	<b>26.00</b>	<b>36.11%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B Projects  
South Base Remodel**

Department Name: Transportation  
 Division: Transit  
 Project Name: South Base Remodel  
 Contract Number: C23007C  
 Prime Contractor: Pellco Construction  
 Contract Award Amount: \$2,981,000  
 Date Bid: October 1, 2002  
 Type of Construction: Buildings-Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Achieved:** 43.81%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 20.60%

The work under this contract includes remodeling a portion of the Operations building and Vehicle Maintenance building at the King County Metro Transit's South Operating Base. The improvements at the Operations building include adding approximately 3442 square feet of new floor to create more space. The improvements to the Vehicle Maintenance building add approximately 1253 square feet of work area. The project also includes redesign of the existing landscaping and results in the loss of approximately 1702 square feet of previously landscaped area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	121.50	32.50	26.75%	1	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	4.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	40.00	40.00	100.00%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>165.50</b>	<b>72.50</b>	<b>43.81%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

## APPENDIX B: Projects Eastgate Park and Ride Expansion

Department Name: Transportation  
 Division: Transit  
 Project Name: Eastgate Park and Ride Expansion  
 Contract Number: C23031C  
 Prime Contractor: Baugh-Skanska  
 Contract Award Amount: \$13,281,000  
 Date Bid: December 5, 2003  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 13.78%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.30%

The work contained in this contract is part of the Eastgate Park-and-Ride expansion project. Under this contract a five-story, 1,321 stall garage will be built and the site will be redeveloped with updated detention facilities, bus loading and layover, and passenger platform with canopy. The capacity of the park-and-ride will increase from 700 stalls to 1,656 stalls.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	43.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	2,227.50	434.00	19.48%		78.00	17.97%	356.00	82.03%
Cement Mason	2,873.50	44.50	1.55%	2	0.00	0.00%	17.50	39.33%
Concrete Boom Pumper	3.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Drywall Installer/Taper	61.00	9.50	15.57%	1	0.00	0.00%	0.00	0.00%
Electrician	6,009.50	1,538.00	25.59%	10	796.50	51.79%	184.00	11.96%
Elevator Constructor	651.00	326.00	50.08%	3	0.00	0.00%	0.00	0.00%
Equipment Operator	3,175.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	4,160.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	501.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	465.60	57.00	12.24%	5	0.50	0.88%	40.50	71.05%
Iron Worker	4,343.00	541.00	12.46%	2	0.00	0.00%	0.00	0.00%
Laborer	4,414.50	1,070.00	24.24%	4	0.00	0.00%	446.00	41.68%
Landscaper	1,849.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	1,639.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	713.50	303.00	42.47%	2	0.00	0.00%	0.00	0.00%
Plumber	642.80	39.00	6.07%	4	0.00	0.00%	5.00	12.82%
Sprinkler Fitter	1,190.00	564.50	47.44%	3	0.00	0.00%	0.00	0.00%
Surveyor	111.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	252.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Traffic Control Striper	426.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>35,754.20</b>	<b>4,926.50</b>	<b>13.78%</b>	<b>36</b>	<b>875.00</b>	<b>17.76%</b>	<b>1,049.00</b>	<b>21.29%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX Projects  
CSC HVAC Replacement

Department Name: Transportation  
 Division: Transit  
 Project Name: CSC HVAC Replacement  
 Contract Number: C23131C  
 Prime Contractor: Diamond B Constructors  
 Contract Award Amount: \$4,152,331  
 Date Bid: December 12, 2002  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 19.06%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 12.40%

The contract scope of work includes replacement of the shop area rooftop HVAC equipment, installation of a new HVAC direct digital controller system; replacement of the building fire monitoring panel and devices, installation of localized dust/paint/fume collection equipment, and other work as described in the contract to complete the replacement project.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	99.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	5,008.00	1,055.00	21.07%	7	134.00	12.70%	211.00	20.00%
HVAC (Sheet Metal)	1,463.00	201.00	13.74%	1	0.00	0.00%	0.00	0.00%
Other Trade	4,075.50	786.00	19.29%	6	72.00	9.16%	0.00	0.00%
Pipefitter	87.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	129.50	39.00	30.12%	5	0.00	0.00%	22.50	0.00%
Sprinkler Fitter	58.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>10,920.50</b>	<b>2,081.00</b>	<b>19.06%</b>	<b>19</b>	<b>206.00</b>	<b>9.90%</b>	<b>233.50</b>	<b>11.22%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

## APPENDIX B Projects Base Parking Garage Construction

Department Name: Transportation  
 Division: Transit  
 Project Name: Base Parking Garage Construction  
 Contract Number: C33092C  
 Prime Contractor: Berschauer Phillips Construction Company  
 Contract Award Amount: \$11,244,753  
 Date Bid: July 29, 2003  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 16.47%  
**Construction Completed:** 99.00%  
**\*\*Cumulative Apprenticeship Rate:** 17.70%

This contract requires construction of a 1,000-stall, 5-story parking garage, a key component of the program to expand bus parking at the Atlantic, Central, and Ryerson Transit Bases. The garage is to consolidate parking for employees and non-revenue vehicles to free up nearly 5 acres for expanded bus parking.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
	294.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00
Bricklayer	872.30	124.75	14.30%	5	0.00	0.00%	17.75	14.23%
Carpenter	29,662.50	4,205.50	0.00%	9	39.50	0.94%	1,306.00	31.05%
Cement Mason	783.50	92.00	11.74%	1	0.00	0.00%	74.00	80.43%
Electrician	5,323.50	1,256.00	23.59%	4	38.50	3.07%	339.00	26.99%
Equipment Operator	2,106.00	15.50	0.74%	2	0.00	0.00%	0.00	0.00%
Glaziers	484.00	6.80	1.40%	2	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	718.00	5.75	0.80%	2	0.00	0.00%	1.75	30.43%
Insulation (Heat & Frost) Worker	12.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	11,592.40	2,395.00	20.66%	10	88.00	3.67%	198.00	8.27%
Laborer	14,987.00	2,649.00	17.68%	6	0.00	0.00%	823.00	31.07%
Painter	165.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	167.50	45.50	27.16%	1	0.00	0.00%	0.00	0.00%
Pipefitter	405.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	1,293.25	610.50	47.21%	3	1.50	0.25%	36.00	5.90%
Roofer	163.55	84.05	51.39%	3	0.00	0.00%	66.05	78.58%
Sprinkler Fitter	116.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	13.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	49.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Telecommunications Technician	122.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Tile Finisher	203.00	18.00	8.87%	2	0.00	0.00%	0.00	0.00%
Other Trade	396.00	8.00	2.02%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>69,930.30</b>	<b>11,516.35</b>	<b>16.47%</b>	<b>51.00</b>	<b>167.50</b>	<b>1.45%</b>	<b>2,861.55</b>	<b>24.85%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B Projects  
**140<sup>th</sup> Ave Southeast (SE 197<sup>th</sup> Place to Petrovitsky Road)**

Department Name: Transportation  
 Division: Roads  
 Project Name: 140th Ave Southeast (SE 197th Place to Petrovitsky Road)  
 Contract Number: C23027C  
 Prime Contractor: Scarsella Brothers, Inc.  
 Contract Award Amount: \$8,133,087  
 Date Bid: October 10, 2002  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 14.07%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 11.00%

The Contract scope of work provides for improvements of 140th Avenue Southeast from Southeast 197th Place to Southeast Petrovitsky Road by clearing and grubbing, removing asphalt-concrete pavement, grading, drainage, installation of sanitary sewer, installation of water lines, landscaping and other civil and electrical work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Cement Mason	793.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	1,439.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	7,234.00	1,575.00	21.77%	4	79.50	5.05%	16.00	1.02%
Fence Erector	597.75	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	14,352.00	1,736.00	12.10%	6	323.00	18.61%	995.00	57.32%
Landscaper	1,610.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	4,026.65	971.00	24.11%	1	0.00	0.00%	971.00	100.00%
Traffic Control Striper	88.50	14.25	16.10%	1	0.00	0.00%	0.00	0.00%
Other Trade	384.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>30,524.90</b>	<b>4,296.25</b>	<b>14.07%</b>	<b>12</b>	<b>402.50</b>	<b>9.37%</b>	<b>1,982.00</b>	<b>46.13%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
**Courthouse Seismic Upgrade**

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Courthouse Seismic Project  
 Contract Number: C14064C  
 Prime Contractor: Baugh Skanska  
 Contract Award Amount: \$50,889,974  
 Date Bid: August 2, 2001  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 16.91%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 19.30%

The contract scope of work is to upgrade the King County Courthouse structural system to meet the current performance criteria during an earthquake for new structures in Seattle. As part of the structural system upgrades, the project includes fire/life safety upgrades including the installation of a sprinkler system, emergency power, and pressurization of elevator shafts and stairwells. In addition, the project includes improvements to the building's telecommunication infrastructure, heating and air conditioning system, and court security systems.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical	4,199.00	470.00	11.19%	10	0.00	0.00%	0.00	0.00%
Bricklayer	752.50	259.50	34.49%	3	0.00	0.00%	84.00	32.37%
Carpenter	23,530.50	2,936.50	12.48%	25	721.00	24.55%	273.00	9.30%
Cement Mason	1,059.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	50.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Drywall	13,990.00	1,000.50	7.15%	10	0.00	0.00%	0.00	0.00%
Electrician	26,568.50	6,056.50	22.80%	53	646.00	10.67%	157.00	2.59%
Equipment Operator	4,084.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Floor Layer	120.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glazier	981.50	363.00	36.98%	7	0.00	0.00%	0.00	0.00%
HVAC	11,963.25	2,492.30	20.83%	21	0.00	0.00%	844.00	33.86%
Insulation (Heat & Frost)	322.00	172.00	53.42%	2	0.00	0.00%	0.00	0.00%
Ironworker	14,452.50	2,469.00	17.08%	8	1,825.50	73.94%	224.00	9.07%
Laborer	27,884.50	5,192.00	18.62%	32	100.00	1.93%	1,357.00	26.14%
Other Trade	1,825.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	2,657.00	120.00	4.52%	4	0.00	0.00%	0.00	0.00%
Plasterer	311.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	10,980.50	1,511.00	13.76%	12	0.00	0.00%	0.00	0.00%
Sprinkler Fitter	4,506.00	1,599.50	35.50%	9	0.00	0.00%	842.50	52.67%
Stone Mason	1,596.50	430.00	26.93%	8	0.00	0.00%	200.00	46.51%
Telecommunications Tech	2,588.00	908.50	35.10%	3	328.00	36.10%	0	0.00%
Tile Finisher	954.50	390.00	40.86%	2	0.00	0.00%	0	0.00%
Tile Setter Installer	662.00	12.00	1.81%	1	0.00	0.00%	0	0.00%
<b>Total</b>	<b>156,039.05</b>	<b>26,382.30</b>	<b>16.91%</b>	<b>210</b>	<b>3,620.50</b>	<b>13.72%</b>	<b>3,981.50</b>	<b>15.09%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
West Point Treatment Plant – 401 Generator

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: West Point Treatment Plant - 401 Generator  
 Contract Number: C03149C  
 Prime Contractor: Cochran Inc.  
 Contract Award Amount: \$1,222,500  
 Date Bid: July 29, 2003  
 Type of Construction: Buildings/Alterations

**Apprenticeship Requirement:** 14.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 88.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this contract includes the replacement of the existing 600kW emergency "401 Generator" with a new 730kW emergency generator, isolating the new generator cooling system from the existing plant heat loop with the installation of a new remote radiator, installation of a new automatic transfer switch, motor control center and all associated equipment, connecting selected existing equipment to standby power and providing new battery capacity for existing fire alarm panels.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	95.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	2,797.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation Worker	40.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	276.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	210.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	246.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>3,664.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
South Plant MCC Upgrade

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Plant MCC Upgrade  
 Contract Number: C23010C  
 Prime Contractor: Milne Electric  
 Contract Award Amount: \$333,335  
 Date Bid: October 16, 2003  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 50.00%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 34.00%

The work under this contract includes furnishing all labor, materials, equipment, overhead and supervision, for the removal, disposal, and replacement of four new 600 volt Motor Control Centers (MCC's) and modified MCC buckets. Other work includes, but is not limited to, identifying, tracing, pulling, re-pulling, labeling and terminating wiring. The location of the work is at the King County South Treatment Plant on Monster Road.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	256.00	128.00	50.00%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>256.00</b>	<b>128.00</b>	<b>50.00%</b>	<b>1</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Kenmore Park & Ride Expansion and Site Improvements**

Department Name: Transportation  
 Division: Transit  
 Project Name: Kenmore Park & Ride Expansion and Site Improvements  
 Contract Number: C33072C  
 Prime Contractor: A-1 Landscaping and Construction  
 Contract Award Amount: \$834,786  
 Date Bid: January 6, 2004  
 Type of Construction: Park and Ride Lot

**Apprenticeship Requirement:** 11.00%  
**2004 Apprenticeship Rate:** 12.35%  
**Construction Completed:** 98.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 12.40%

Work under this Contract consists of supplying all labor, superintendence, materials, and equipment necessary for the expansion of parking capacity and layover capacity at the Kenmore park and ride lot. The expansion will be construction of new parking capacity on the northern half of the adjacent St. Vincent dePaul property and modifications to the existing Kenmore Park and Ride lot located at 7346 NE Bothell Way (SR-522) to accommodate additional coach layover.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	1,043.00	29.50	2.83%	1	0.00	0.00%	29.50	100.00%
Cement Mason	873.60	248.50	28.45%	1	0.00	0.00%	248.50	100.00%
Equipment Operator	674.35	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	18.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	1.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	1,188.40	278.00	23.39%	1	0.00	0.00%	278.00	100.00%
Landscaper	621.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	28.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	54.10	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,501.95</b>	<b>556.00</b>	<b>12.35%</b>	<b>1.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>556.00</b>	<b>100.00%</b>

See note below

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

Note: same apprentice worked in all three trades

Same apprentice worked in all three trades

APPENDIX B: Projects  
Redondo Heights Park & Ride

Department Name: Transportation  
 Division: Transit  
 Project Name: Redondo Heights Park & Ride  
 Contract Number: C33035C  
 Prime Contractor: SCI Infrastructure, L.L.C.  
 Contract Award Amount: \$3,959,000  
 Date Bid: August 14, 2003  
 Type of Construction: Park and Ride Lot

**Apprenticeship Requirement:** 15.00%  
**A2004 pprenticeship Rate:** 15.49%  
**Construction Completed:** 97.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 15.10%

The work under this contract includes: constructing an approximately 700-stall park-and-ride lot. The scope of work includes, but is not limited to, cleanup and demolition of an existing sand blasting unit; disposal of hazardous waste; site grading and excavating; installation of utilities; finishing and curing of asphalt concrete; landscaping; lighting and work associated with the project's art work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	2,093.50	409.00	19.54%	3	0.00	0.00%	0.00	0.00%
Cement Mason	2,689.50	535.50	19.91%	0	0.00	0.00%	195.00	36.41%
Concrete Boom Pumper	13.30	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrical	2,991.00	1,590.00	53.16%	8	0.00	0.00%	0.00	0.00%
Equipment Operator	3,662.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	77.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	58.10	25.00	43.03%	2	0.00	0.00%	0.00	0.00%
Insulation Worker	3.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	179.00	88.00	49.16%	0	0.00	0.00%	88.00	100.00%
Laborer	6,527.00	842.50	12.91%	0	0.00	0.00%	158.50	18.81%
Landscaper	1,963.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	14.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	330.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	1,918.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Traffic Control Striper	118.50	21.50	18.14%	2	0.00	0.00%	0.00	0.00%
Other Trade	27.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>22,666.00</b>	<b>3,511.50</b>	<b>15.49%</b>	<b>15</b>	<b>0.00</b>	<b>0.00%</b>	<b>441.50</b>	<b>12.57%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**S. 277<sup>th</sup> Street Reconstruction – Phase 3**

Department Name: Transportation  
 Division: Roads  
 Project Name: S. 277th Street Reconstruction - Phase 3  
 Contract Number: C33019C  
 Prime Contractor: Scarsella Brothers  
 Contract Award Amount: 8,319,364  
 Date Bid: October 9, 2003  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 9.60%  
**Construction Completed:** 72.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 5.00%

This project provides for the improvements at the location of South 277th Street from West Valley Highway to Frontage Road by constructing filter media berms, detention ponds, mechanically stabilized earth walls, and drilled shafts. It includes widening Bridge No. 167/119, constructing wing walls, approach slabs, steel column jacket assemblies around the existing bridge columns, and installing a bridge deck waterproofing membrane. In addition, work involves concrete slope protection, paving and surfacing, sidewalk construction, pavement markings, guardrail and traffic barrier, signals and lights, installing an ITS system, landscaping, erosion control, traffic control, fencing, surveying, and other work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	3,325.50	116.50	3.50%	1	0.00	0.00%	0.00	0.00%
Cement Mason	276.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	22.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	3,045.50	1,008.50	33.11%	6	0.00	0.00%	0.00	0.00%
Equipment Operator	21,313.55	1,872.50	8.79%	11	129.00	6.89%	245.00	13.08%
Fence Erector	288.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	296.50	11.00	3.71%	1	0.00	0.00%	0.00	0.00%
Laborer	18,159.80	2,263.00	12.46%	6	503.00	22.23%	278.50	12.31%
Landscaper	3,073.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	21.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	6,347.50	132.00	2.08%	2	0.00	0.00%	0.00	0.00%
Traffic Control Stripper	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	98.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>56,298.35</b>	<b>5,403.50</b>	<b>9.60%</b>	<b>27</b>	<b>632.00</b>	<b>11.70%</b>	<b>523.50</b>	<b>9.69%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
124<sup>th</sup> Ave. NE (NE 132<sup>nd</sup> St to NE 145<sup>th</sup> Pl.)

Department Name: Transportation  
 Division: Roads  
 Project Name: 124th Ave. NE (NE 132nd St. to NE 145th Pl.)  
 Contract Number: C33093C  
 Prime Contractor: KLB Construction  
 Contract Award Amount: \$3,192,442  
 Date Bid: December 11, 2003  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 7.29%  
**Construction Completed:** 74.00%  
 \*\*\*Cumulative Apprenticeship Rate: 8.00%

This project provides for the improvement of 124th Avenue NE from NE 132nd Street to NE 145th Place in King County by installing drainage, a water quality pond, a detention tank, sidewalks, driveways, block walls, illumination, traffic signal, and lighted crosswalk systems, paving, landscaping, and mitigation.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	144	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	781.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrical Line Worker	172.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	301.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	2,617.00	48.00	1.83%	1	0.00	0.00%	0.00	0.00%
Flagger	2,827.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	3,577.00	800.00	22.37%	3	298.50	37.31%	452.50	56.56%
Landscaper	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	235.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	171.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	915.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>11,627.00</b>	<b>848.00</b>	<b>7.29%</b>	<b>4</b>	<b>298.50</b>	<b>35.20%</b>	<b>452.50</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B: Projects  
**S. Mercer Isl. Pump Station Standby Generator**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: S. Mercer Isl. Pump Station Standby Generator  
 Contract Number: C03108C  
 Prime Contractor: Midmountain  
 Contract Award Amount: \$1,072,826  
 Date Bid: January 15, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 6.00%  
**2004 Apprenticeship Rate:** 12.23%  
**Construction Completed:** 83.00%  
 \*\*\*Cumulative Apprenticeship Rate: 12.20%

The work in part consists of site work with temporary erosion control, asphalt pavement removal and replacement, excavation with sheet pile shoring, underground sewer and utility relocations, construction of new generator structure, installation of site utilities, installation of new 400KW standby diesel generator, installation of 800 gal. underground diesel fuel storage tank. Work also includes restoration of the construction site and easement areas, backfill, roadway, and soil preparation for new landscaping.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	2,562.00	609.50	23.79%	1	0.00	0.00%	0.00	0.00%
Cement Mason	177.00	18.50	10.45%	2	0.00	0.00%	0.00	0.00%
Concrete Boom Pump.	9.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	222.00	48.00	21.62%	2	0.00	0.00%	24.00	50.00%
Equipment Operator	381.00	26.50	6.96%	2	0.00	0.00%	0.00	0.00%
HVAC Sheet Metal	64.00	32.00	50.00%	1	0.00	0.00%	0.00	0.00%
Iron Worker	80.00	12.00	15.00%	1	0.00	0.00%	0.00	0.00%
Laborer	1,110.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	37.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	152.00	14.00	9.21%	1	0.00	0.00%	0.00	0.00%
Surveyor	929.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	465.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>6,219.00</b>	<b>760.50</b>	<b>12.23%</b>	<b>10</b>	<b>0.00</b>	<b>0.00%</b>	<b>24.00</b>	<b>3.16%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B: Projects  
Pacific Pump Station**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Pacific Pump Station  
 Contract Number: C33096C  
 Prime Contractor: Midmountain  
 Contract Award Amount: \$3,792,143  
 Date Bid: February 5, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 7.19%  
**Construction Completed:** 7.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 2.50%

The work under this Contract is for the construction of a new, approximately 4550 square foot, three floor Pump Station, including pumps, piping, variable frequency drives, controls, ancillary systems, building systems, and site work. Rehabilitation and installation of engine generator, construction of approximately 573 feet of 15-inch, 18-inch, and 24-inch PVC influent sewer pipe, construction of approximately 600 feet of new 12 inch ductile iron force main pipeline, piping beneath existing stream, trail, and power line, transfer of sewage flows from existing pump station to new, abandonment of existing pump station, relocation of various utilities to accommodate new pipelines, and construction of a new trail connection to the Interurban trail.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	131.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	586.00	56.00	9.56%	3	6.00	10.71%	0.00	0.00%
Irrigation Pump Installer	9.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	1,930.00	140.50	7.28%	3	0.00	0.00%	0.00	0.00%
Surveyor	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Well-drill Operator	18.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	28.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>2,734.00</b>	<b>196.50</b>	<b>7.19%</b>	<b>6</b>	<b>6.00</b>	<b>3.05%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**KC International Airport S. Stormwater Pump Station**

Department Name: Transportation  
 Division: King County International Airport  
 Project Name: KC International Airport S. Stormwater Pump Station  
 Contract Number: C43029C  
 Prime Contractor: Standard Construction, Inc.  
 Contract Award Amount: \$298,112  
 Date Bid: March 16, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 95.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this Contract includes removing the existing stormwater pumps, motors and electrical controls, providing and installing new submerged pumps, motors and providing and installing new electrical controls at the King County International Airport (KCIA). The project is to replace the existing above ground pumping system with four new 10,025 gpm submersible pumps and associated electrical control systems.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	45.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	20.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>65.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Star Lake Remodel and Addition**

Department Name: Transportation  
 Division: Roads  
 Project Name: Star Lake Remodel and Addition  
 Contract Number: C43019C  
 Prime Contractor: Briere and Associates  
 Contract Award Amount: \$306,843  
 Date Bid: April 8, 2004  
 Type of Construction: Buildings -Alterations

**Apprenticeship Requirement: 10.00%**  
**2004 Apprenticeship Rate: 7.70%**  
**Construction Completed: 100.00%**  
 \*\*\*Cumulative Apprenticeship Rate: 7.70%

Liquidated damages were applied as a result of not meeting the requirement. The work under this contract includes construction of a 1624 square foot two story wood framed addition to the existing office at the Star Lake Maintenance Facility, with minor remodeling to portions of the existing 865-square-foot office area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	31.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Bricklayer	24.00	8.00	33.33%	1	0.00	0.00%	0.00	0.00%
Carpenter	1,038.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	24.00	8.00	33.33%	1	0.00	0.00%	0	0.00%
Electrician	565.00	133.00	23.54%	1	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	236.75	40.75	17.21%	6	0.00	0.00%	27.50	67.48%
Insulation Worker	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	4.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	96.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	176.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	8.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Soft Floor Layer	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Tilesetter Installer	42.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>2,325.25</b>	<b>189.75</b>	<b>8.16%</b>	<b>9</b>	<b>0.00</b>	<b>0.00%</b>	<b>27.50</b>	<b>14.49%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**2004 N. County Asphalt Concrete Pavement Overlay**

Department Name: Transportation  
 Division: Roads  
 Project Name: 2004 North County Asphalt Concrete Pavement Overlay  
 Contract Number: C43087C  
 Prime Contractor: Rinker Materials  
 Contract Award Amount: \$1,950,491  
 Date Bid: July 1, 2004  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 17.23%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 5.50%

This project provides for the improvements to 17.36 miles of roadway in North King County by planing bituminous surfaces, removing raised pavement markers, rumble strips, and plastic traffic markings, paving with asphalt concrete Class B, placing crushed surfacing, erosion control, and other work, in accordance with the following Special Provisions in conjunction with the 2002 Standard Specifications for Road, Bridge and Municipal Construction issued by the Washington State Department of Transportation and the American Public Works Association and the 1993 King County Roads Standards.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Equipment Operator	3,063.55	1,152.30	37.61%	3	0.00	0.00%	0.00	0.00%
Flagger	4,071.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	1,370.00	534.00	38.98%	2	274.50	51.40%	259.50	48.60%
Teamster/Truck Driver	1,284.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>9,789.05</b>	<b>1,686.30</b>	<b>17.23%</b>	<b>5</b>	<b>274.50</b>	<b>16.28%</b>	<b>259.50</b>	<b>15.39%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**2004 S. County Asphalt Concrete Pavement Overlay**

Department Name: Transportation  
 Division: Roads  
 Project Name: 2004 South County Asphalt Concrete Pavement Overlay  
 Contract Number: C43088C  
 Prime Contractor: ICON Materials  
 Contract Award Amount: \$1,909,088  
 Date Bid: July 1, 2004  
 Type of Construction: Roads Division

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 5.05%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 3.70%

This project provides for the improvements to 22.98 miles of roadway in South King County by planing bituminous surfaces, removing raised pavement markers, rumble strips, and plastic traffic markings, paving with asphalt concrete Class B, placing crushed surfacing, erosion control, and other work, in accordance with the following Special Provisions in conjunction with the 2002 Standard Specifications for Road, Bridge and Municipal Construction, issued by the Washington State Department of Transportation and the American Public Works Association and the 1993 King County Roads Standards.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Equipment Operator	3,537.50	133.50	3.77%	2	0.00	0.00%	0.00	0.00%
Laborer	4,980.50	484.50	9.73%	4	152.00	31.37%	273.50	56.45%
Teamster/Truck Driver	3,708.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>12,226.50</b>	<b>618.00</b>	<b>5.05%</b>	<b>6</b>	<b>152.00</b>	<b>24.60%</b>	<b>273.50</b>	<b>44.26%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

## APPENDIX B: Projects Power Distribution Headquarters Replacement

Department Name: Transportation  
 Division: Transit  
 Project Name: Power Distribution Headquarters Replacement  
 Contract Number: C33001C  
 Prime Contractor: Kassel Construction, Inc.  
 Contract Award Amount: \$5,602,880  
 Date Bid: November 18, 2003  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 15.28%  
**Construction Completed:** 62.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.20%

The work under this Contract includes but is not limited to site preparation including demolition of existing 14,000sf building and parking structure, grading, earthwork, storm drainage, underground utilities, paving, staging area preparation, securing permits, construction of structural footings and steel building, overhead canopy construction, all mechanical, architectural and electrical components, and coordination of all other activities.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	22.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	3,243.50	592.00	18.25%	6	23.00	0.00%	36.50	6.17%
Drywall Installer/Taper	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	1,423.50	336.00	23.60%	1	336.00	100.00%	0.00	0.00%
Equipment Operator	196.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	541.00	120.50	22.27%	1	0.00	0.00%	0.00	0.00%
Insulation worker	32.00	32.00	100.00%	1	0.00	0.00%	0.00	0.00%
Iron Worker	689.50	107.50	15.59%	2	0.00	0.00%	0.00	0.00%
Laborer	99.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver	938.00	153.50	16.36%	1	0.00	0.00%	0.00	0.00%
Pipefitter	387.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plasterer	30.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	1,146.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	255.50	41.00	16.05%	3	18.50	45.12%	18.50	45.12%
Other Trade	37.00	0.00		0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>9,048.50</b>	<b>1,382.50</b>	<b>15.28%</b>	<b>15</b>	<b>377.50</b>	<b>27.31%</b>	<b>55.00</b>	<b>3.98%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Concrete Maintenance 2004-2005**

Department Name: Transportation  
 Division: Transit  
 Project Name: Concrete Maintenance 2004-2005  
 Contract Number: C43051C  
 Prime Contractor: Cutter Inc.  
 Contract Award Amount: NTE \$300,000  
 Date Bid: n/a  
 Type of Construction: Facility Maintenance

**Apprenticeship Requirement:** 5.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 82.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this Contract includes furnishing all labor, materials, and equipment necessary to perform small concrete maintenance work on King County Transit facilities. On short notice (72 hours or less), the Contractor shall be available to mobilize and perform small concrete maintenance work on facilities maintained by King County Transit. The type of work involved is curb and gutter repair and replacement, and other Portland Concrete Cement Pavement ("PCCP") maintenance work. The work requires principally civil/structural contractors, and related trades.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	155.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	227.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	182.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>588.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B: Projects  
**Administration Bldg. Elevator Modernization**

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Admin Elevator Modernization  
 Contract Number: C33133C  
 Prime Contractor: Vertical Transportation  
 Contract Award Amount: \$327,000  
 Date Bid: April 27, 2004  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 48.40%  
**Construction Completed:** 85.00%  
**\*\*Cumulative Apprenticeship Rate:** 48.40%

The work under this Contract involves modernization and seismic upgrades for elevator cars #1, #2, and #4 in the King County Administration Building. It includes retrofitting existing elements, adding new systems including controller systems and modernization of the car interiors. Concurrent with the construction work, the Contractor shall take over Maintenance Service responsibilities of an existing contractor of four existing Haughton passenger elevators.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Elevator Constructor	1,397.00	674.00	48.25%	3	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,397.00</b>	<b>674.00</b>	<b>48.25%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
Enumclaw Fairgrounds RV Campground

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Enumclaw Fairgrounds RV Campground  
 Contract Number: C43037C  
 Prime Contractor: Sefnco Communications, Inc.  
 Contract Award Amount: \$317,620  
 Date Bid: March 23, 2003  
 Type of Construction: Site Demolition and Improvements

**Apprenticeship Requirement:** 5.00%  
**2004 Apprenticeship Rate:** 7.02%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 6.90%

The work under this Contract includes demolition and miscellaneous site improvements; removal of existing sod lawn areas; earth work; water system; storm drainage; paving and surfacing; site improvements; soil preparation; electrical distribution system

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	106.00	21.00	19.81%	1	0.00	0.00%	0.00	0.00%
Electrician	203.00	105.00	51.72%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	478.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	1,008.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,795.50</b>	<b>126.00</b>	<b>7.02%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**South Treatment Plant Cogeneration Project**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Treatment Plant Cogeneration Project  
 Contract Number: C33104C  
 Prime Contractor: Harbor Pacific Contractors  
 Contract Award Amount: \$10,824,000  
 Date Bid: April 20, 2004  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 25.97%  
**Construction Completed:** 26.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 26.00%

The work under this Contract includes the installation of a new cogeneration building and related utilities; installation of an auger cast pile foundation; construction of a new pre-cast panel building; installation of power, instrumentation duct banks, water, gas, sewer and sanitary drainage piping, grading and paving; installation of two (County provided) gas turbine generators and SCADA system, two heat recovery system generators, one condensing steam turbine generator, heat exchangers, pumps, de-aeration equipment, water treatment equipment, two switch gears, fire protection system, HVAC, and all associated devices, equipment, wiring, piping, etc. for an operating co-generation system.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	1,817.00	554.50	30.52%	2	0.00	0.00%	291.00	52.48%
Cement Mason	194.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	2,165.00	793.50	36.65%	5	0.00	0.00%	0.00	0.00%
Equipment Operator	2,007.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	162.00	46.00	28.40%	1	0.00	0.00%	0.00	0.00%
Iron Worker	236.00	24.00	10.17%	1	0.00	0.00%	0.00	0.00%
Laborer	1,023.00	76.00	7.43%	1	0.00	0.00%	76.00	100.00%
Pile Driver Operator	537.50	100.50	18.70%	1	0.00	0.00%	0.00	0.00%
Pipefitter	1,081.00	340.00	31.45%	1	340.00	100.00%	0.00	0.00%
Plumber	1,340.00	819.00	61.12%	4	0.00	0.00%	0.00	0.00%
Teamster/Truckdriver	41.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>10,604.00</b>	<b>2,753.50</b>	<b>25.97%</b>	<b>16</b>	<b>340.00</b>	<b>12.35%</b>	<b>367.00</b>	<b>13.33%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Matthews Pump Station Upgrade**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Matthews Pump Station Upgrade  
 Contract Number: C43061C  
 Prime Contractor: MKB Constructors  
 Contract Award Amount: \$6,938,870  
 Date Bid: August 3, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 31.92%  
**Construction Completed:** 5.00%  
 \*\*\*Cumulative Apprenticeship Rate: 35.10%

The work under this contract includes modifying the pump stations existing mechanical system. The work also includes modifications to the pump station electrical system, installation of a replacement sytem; construction of a new structure to house portions of the new electrical system; demolition of and replacement of existing instrumentation and control system; new field equipment; miscellaneous structural upgrades; and landscaping.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	478.00	239.00	50.00%	1	0.00	0.00%	0.00	0.00%
Electrician	168.00	32.00	19.05%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	203.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>849.00</b>	<b>271.00</b>	<b>31.92%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
Issaquah Highlands Park and Ride

Department Name: Transportation  
 Division: Transit  
 Project Name: Issaquah Highlands Park- And-Ride  
 Contract Number: C43001C  
 Prime Contractor: Bayley Construction, A General Partnership  
 Contract Award Amount: \$16,727,075  
 Date Bid: August 10, 2004  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 7.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this Contract includes constructing a fully functional five-story, commuter parking garage with site and frontage improvements. The scope of work includes, but is not limited to: site grading; excavation; installation of pile foundation; retaining walls; installation of site utilities; storm drainage collection and conveyance system; construction of a reinforced concrete parking structure; roadway paving with Portland cement concrete and asphalt concrete; structural steel placement; electrical systems; surveillance camera and panic alarm system; utility services; irrigation systems; Portland cement sidewalks, curb and gutter; landscaping; lighting; striping; roadway channelization; and work associated with the project's art work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	169.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	758.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	15.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	267.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	35.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	131.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,377.50</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Ryerson Base Bus Parking Extension**

Department Name: Transportation  
 Division: Transit  
 Project Name: Ryerson Base Bus Parking Extension  
 Contract Number: C43018C  
 Prime Contractor: Gary Merlino Construction Company, Inc.  
 Contract Award Amount: \$1,272,849  
 Date Bid: July 20, 2004  
 Type of Construction: Paving and Utilities' Installation

**Apprenticeship Requirement:** 8.00%  
**2004 Apprenticeship Rate:** 24.71%  
**Construction Completed:** 81.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 24.70%

The work under this Contract includes, but is not limited to, demolition, removal, haul and disposal of approximately 9200 sq yards of 6 to 11 inch asphalt, regrading and install a new storm drainage system and replacing the same area with 10 inch concrete pavement including associated lighting, fencing, and electrical work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Cement Mason	1,096.50	298.00	27.18%	3	0.00	0.00%	107.00	35.91%
Equipment Operator	778.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	9.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	2,344.00	888.00	37.88%	4	0.00	0.00%	511.00	57.55%
Teamster/Truckdriver	572.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,800.00</b>	<b>1,186.00</b>	<b>24.71%</b>	<b>7</b>	<b>0.00</b>	<b>0.00%</b>	<b>618.00</b>	<b>52.11%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Jail Chiller Plant Replacement**

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Jail Chiller Plant Replacement  
 Contract Number: C43089C  
 Prime Contractor: McKinstry Co.  
 Contract Award Amount: \$1,258,000  
 Date Bid: July 8, 2004  
 Type of Construction: Buildings -Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 18.80%  
**Construction Completed:** 92.00%  
 \*\*\*Cumulative Apprenticeship Rate: 18.80%

The work under this contract includes removal of all old chiller equipment and piping, replacing same with new equipment and piping, per plans, in chiller room and adjacent roof area, on the 12th floor (rooftop) of the King County Jail. The Physical removal of old equipment/materials and setting of new replacement equipment and materials will be accomplished using crane erection equipment during one prescheduled weekend.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	160.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	108.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	16.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	105.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	2,402.50	526.00	21.89%	3	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>2,791.50</b>	<b>526.00</b>	<b>18.84%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B: Projects  
Blackriver HVAC Upgrade**

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Blackriver HVAC Upgrade  
 Contract Number: C43117C  
 Prime Contractor: W.A. Botting Co.  
 Contract Award Amount: \$424,799  
 Date Bid: September 21, 2004  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 5.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 1.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this contract includes the replacement of two 80-plus ton rooftop air conditioning units with modifications to the existing DDC control system. Work will also include the balancing/replacement of select interior HVAC components to improve occupant comfort issues within the building's occupied spaces. The location of the work is the Department of Development and Environmental Services.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
HVAC (Sheet Metal)	19.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>19.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



## APPENDIX B: Projects Large Generator Replacements

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Large Generator Replacements  
 Contract Number: C23066C  
 Prime Contractor: Intermountain Electric, Inc.  
 Contract Award Amount: \$1,117,800  
 Date Bid: May 29, 2003  
 Type of Construction: Heavy Civil

**Apprenticeship Requirement:** 8.00%  
**2004 Apprenticeship Rate:** 0.67%  
**Construction Completed:** 96.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.70%

The work under this contract includes but is not limited to the removal and replacement of obsolete generators at 4 West Section pump stations. The contract will remove the existing generator systems, including automatic transfer switches, primary power feeds to the station and control dampers on inlets and outlets to the facilities.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	456.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	1,978.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	38.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	73.05	29.00	39.70%	3	0.00	0.00%	0.00	0.00%
Insulation Worker	36.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	473.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	54.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	874.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	352.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,335.55</b>	<b>29.00</b>	<b>0.67%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**KCIA Runway 31L Safety Area**

Department Name: Natural Resources & Parks  
 Division: King County International Airport  
 Project Name: KCIA Runway 31L Safety Area  
 Contract Number: C43049C  
 Prime Contractor: Gary Merlino Construction  
 Contract Award Amount: \$5,917,008  
 Date Bid: April 27, 2004  
 Type of Construction: Highways and Bridges

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 21.98%  
**Construction Completed:** 27.00%  
 \*\*\*Cumulative Apprenticeship Rate: 21.00%

The work under the contract is for Runway 13R-31L Safety Area work at the King County International Airport (KCIA) including constructing approximately 880 feet of special use pavement at the north end of Runway 13R-31L and associated Taxiway Z. The project will also realign Taxiway A-11 and construct new Taxiway B-9. Electrical improvements include new edge for the special use pavement, Taxiway Z, Taxiway A-11, and Taxiway B-9, new threshold lights for the special use pavement, relocation of existing threshold lights for the threshold relocation at Runway 31L end, informational signage, distance-to-go signs, and the associated wiring.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	63.00	8.00	12.70%	1	0.00	0.00%	0.00	0.00%
Carpenter	257.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	19.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	393.00	100.00	25.45%	0	0.00	0.00%	0.00	0.00%
Laborer	886.00	292.00	32.96%	4	0.00	0.00%	92.50	31.68%
Teamster/Truck Driver	184.10	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Traffic Control Striper	17.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,819.60</b>	<b>400.00</b>	<b>21.98%</b>	<b>5</b>	<b>0.00</b>	<b>0.00%</b>	<b>92.50</b>	<b>23.13%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



2004

# Apprenticeship Report



**King County**

**Business Development and Contract Compliance**

**Office of Business Relations and Economic Development**

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## EXECUTIVE SUMMARY



*King County's  
Apprenticeship Program  
provides an essential link  
between businesses and  
individuals seeking  
apprenticeship*

*opportunities to "earn while they learn."*

King County's economic future depends on the strength of our workforce. Our businesses need skilled workers to deliver the best quality jobs marked by knowledge, competence, and excellence. These characteristics give U.S. companies a competitive edge in the global marketplace. If we are to sustain this advantage, we must build a workforce that has the skills needed to compete effectively.

King County's Apprenticeship Program connects workforce development to economic needs by focusing on apprenticeship as an economic strategy for fostering family wage jobs. The program requires the use of apprentices on select County public works projects. It provides an essential link between businesses and individuals seeking apprenticeship opportunities to "earn while they learn."

Apprenticeships create doorways that provide equality of access for women and people of color to employment on county construction jobs. Many of today's highly skilled workers—carpenters, heavy equipment operators, and electricians—once passed through these doors as apprentices in the early years of the program. These individuals are contributing to the pool of skilled

labor in the local construction industry and the rise of a diverse workforce in our region.

The 2004 King County Apprenticeship Program began by introducing a change in how the county applies the apprenticeship ordinance. In the early years of the program, King County established apprenticeship *goals* on select construction projects that contractors aspired to achieve. Beginning with the 2004 program, King County now *requires* a specific level of apprenticeship on these contracts, and imposes sanctions for a contractor's failure to meet the requirement without acceptable justification.

In 2004, King County refined its reporting tools and made internal procedural changes to enhance monitoring efforts and communication with county departments. Departments' participation is vital to supporting the use of apprentices on contracts they administer.

In 2004, King County Apprenticeship results include:

- **An overall apprenticeship rate of 15.4%**
- **Six hundred ninety-two (692) apprentices performed work on county construction projects.**
- **30% participation by minority apprentices** for the first time since the start of King County's Apprenticeship Program



## REPORT OVERVIEW

King County establishes apprenticeship requirements on selected public works projects with estimated construction valued at greater than \$1 million dollars. The total labor hours and opportunity for training are the determining factors in the establishment of apprenticeship requirements. Construction projects valued at less than \$1 million dollars may be subject to the apprenticeship requirements if the project has a sufficient number of labor hours to support the use of apprentices.

This report details the performance of King County's Apprenticeship Program in 2004. It also provides statistics on the following:

- (a) The number and kinds of public works projects on which the County apprenticeship requirements were established;
- (b) The percentage of labor hours actually worked by apprentices on select County construction projects, and the total number of labor hours on each project;
- (c) The number of apprentices categorized by trade and craft, and the number and percentage of minorities, women, persons with disabilities and economically disadvantaged youth utilized as apprentices;
- (d) A description of problems encountered in implementing the apprenticeship requirements;
- (e) A description of barriers apprentices encounter, and the steps taken to resolve them.

King County does not monitor certified payrolls for contractors; therefore, this report does not include information on the wages paid by category of work or trade.

The report contains the following five sections plus appendices:

### **Section 1: Types of Public Works Projects Subject to the Apprenticeship Requirements**

Section 1 provides information on the type of public works projects subject to the County's apprenticeship requirements during the report period. This section includes data on the number of labor hours worked by apprentices and the total number of labor hours for these projects.

### **Section 2: Number of Public Works Projects Subject to the Apprenticeship Requirements including Total Apprentice Labor Hours**

Section 2 evaluates the number of public works projects subject to the County's apprenticeship requirements during the report period. This section includes data on the number of labor hours worked by apprentices and the total number of labor hours for these projects.

### **Section 3: Apprenticeship Utilization and Participation by Populations**

Section 3 evaluates the number and percentage of minorities, women, persons with disabilities and economically disadvantaged youth utilized as apprentices; the number of apprentices by trade and craft category; and the degree of contractor compliance with established hiring goals.

### **Section 4: Implementation Issues**

Section 4 includes information on the concerns encountered in the implementation of the County's Apprenticeship Program and actions undertaken to mitigate or resolve them.

### **Section 5: Number of Indentured Apprentices during the Report Period**

Section 5 contains information on the number of indentured apprentices resulting from the County's apprenticeship training requirements.

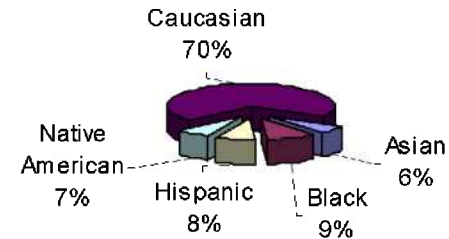
### **Appendices**

The appendices include a glossary of terms, as well as charts and tables providing important statistical information on the performance of apprenticeship requirements during the reporting period.

## General Summary

Total Labor Hours on KC Projects	748,623
Actual Apprentice Hours Worked	115,537
Actual Apprentice Hours Percentage	15.4%
Apprentice Hours Overall Goal at 15%	112,293
Over/under percentage goal	+0.4%
Number of Apprentices	692

## Apprentice Participation by Race



## Apprentice Population Summary

Population	Number	Hours	% Hours
Caucasian Men	493	71,442	61.8%
Caucasian Women	42	9,346	8.1%
<sup>1</sup> Disabled Persons	6	543	Not in total
Disadvantaged Youth	2	215	Not in total
Minority Men	145	30,775	26.6%
Minority Women	12	3,976	3.4%
<b>Subtotal Minorities</b>	<b>157</b>	<b>34,751</b>	<b>30.1%</b>

## Apprentice Hours by Race

	Asian	Black	Hispanic	Native
Minority Men	5,555	10,544	7,690	6,986
Minority Women	1,545	299	1,334	798
<b>Subtotal Minorities</b>	<b>7,100</b>	<b>10,843</b>	<b>9,024</b>	<b>7,784</b>
<b>% Apprentice Hours by Race:</b>	<b>6.1%</b>	<b>9.4%</b>	<b>7.8%</b>	<b>6.7%</b>

Department Summary	Projects	\$ Amount	Labor Hours	Number of Apprentices	Apprentice Hours	% Use
<b>Natural Resources and Parks (DNRP)</b>						
Wastewater Treatment Division	18	\$174,832,000	217,787	237	33,355	15.3%
Solid Waste Division	3	\$24,085,672	85,412	21	12,468	14.6%
<b>Subtotal</b>	<b>21</b>	<b>\$198,917,672</b>	<b>303,199</b>	<b>258</b>	<b>45,823</b>	<b>15.1%</b>
<b>Transportation (DOT)</b>						
Roads Division	6	\$23,811,315	122,935	63	13,042	10.6%
Transit Division	11	\$63,218,972	160,382	153	25,304	15.8%
King County International Airport	1	\$298,112	65	0	0	<sup>2</sup> not included in total
<b>Subtotal</b>	<b>18</b>	<b>\$87,303,287</b>	<b>283,382</b>	<b>216</b>	<b>38,346</b>	<b>13.5%</b>
<b>Executive Services (DES)</b>						
Facilities Management Division	5	\$53,217,393	162,042	218	31,368	19.4%
<b>All Departments Total</b>	<b>44</b>	<b>\$339,463,464</b>	<b>748,623</b>	<b>692</b>	<b>115,537</b>	<b>15.4%</b>

<sup>1</sup> The number and labor hours for Disabled Persons and Disadvantaged Youth are included in data reported for other populations.

<sup>2</sup> King County awarded this Airport contract in 2004 with construction to begin in 2005. Apprentices performed no labor hours on this project in 2004.

## **Section 1: TYPES OF PUBLIC WORKS SUBJECT TO THE COUNTY'S APPRENTICESHIP REQUIREMENTS**

Construction projects that are subject to King County's apprenticeship requirements generally fall within the following categories:

- I. Buildings - New construction
- II. Buildings – Alterations
- III. Highways and Bridges
- IV. Heavy Civil Construction

### **I. Buildings – New Construction**

These construction projects typically employ 12 to 18 different trades with opportunities for the use of apprentices in most of them. An apprenticeship requirement of 15% is realistic and achievable on these projects. King County's Combined Sewer Overflow (CSO) Control Facility is an example of a new construction project. The project employs 4 to 6 different trades each with opportunities for the use of apprentices.

### **II. Buildings – Alterations**

Building alteration projects typically employ 10 to 12 trades, and an apprenticeship requirement of 15% is realistic and attainable for these projects. The King County Courthouse Seismic Retrofit project valued at over \$50 million dollars is an example of a building alteration project.

### **III. Highways and Bridges**

The majority of apprentice hours on highway and bridge projects, including roads, paving, and park and ride lots; generally involve trades that include equipment operators and laborers. An apprenticeship requirement of 10 to 12% is realistic for these projects that employ equipment operators and laborers. County bridgework generally has Federal Highway Administration (FHWA) funds. King County's apprenticeship requirements do not apply to FHWA funded projects.

Parks and play fields also employ equipment operators and laborers. For these projects, workers are under the category of "landscape construction" for which there is no apprenticeship program. It is not practical to establish apprenticeship requirements for these projects.

### **IV. Heavy Civil Construction**

Heavy civil construction includes pipelines, tunnels, pump stations, and treatment plants. Tunnel and pipeline projects employ equipment operators and laborers with minimal participation from other trades. A 12% goal is more realistic on pipeline projects.

Pump stations typically employ 8 to 10 construction trades and are capable of achieving a 15% apprenticeship requirement. The Swayolocken pump station upgrade is an example of a heavy civil construction project.

## SUMMARY BY TRADE

Trade/Craft	Total Labor Hours	Apprentice Hours	% Apprentice Participation	Number of Apprentices
Acoustical Worker	4,326	472	10.9%	10
Boilermaker	2,116	0	0.0%	0
Bricklayer	4,485	668	14.9%	14
Carpenter	123,461	22,852	18.5%	83
Cement Mason	18,864	1,641	8.7%	13
Concrete Boom Pumper	287	0	0.0%	0
Diver	32	0	0.0%	0
Drywall Installer/Taper	14,346	1,041	7.3%	12
Electrical Line Worker	1,479	345	23.3%	2
Electrician	79,870	19,255	24.1%	137
Elevator Constructor	2,056	1,004	48.8%	7
Equipment Operator	132,710	15,043	11.3%	43
Fence Erector	5,181	0	0.0%	0
Flagger	8,070	0	0.0%	0
Floor Layer	144	0	0.0%	0
Glaziers	1,770	396	22.4%	11
HVAC (Sheet Metal)	20,637	3,854	18.7%	60
Insulation (Heat & Frost)	840	89	10.6%	3
Insulation Worker	288	305	106.1%	4
Iron Worker	37,081	6,853	18.5%	39
Irrigation Pump Installer	15	0	0.0%	0
Laborer	176,534	24,160	13.7%	99
Landscaper	9,531	0	0.0%	0
Millwright	155	0	0.0%	0
Other Trade	11,069	11	0.1%	19
Painter	6,889	1,437	20.9%	21
Pile Driver Operator	3,649	379	10.4%	6
Pipefitter	15,212	2,893	19.0%	16
Plasterer	678	0	0.0%	0
Plumber	23,039	5,880	25.5%	31
Roofer	3,332	1,157	34.7%	25
Sprinkler Fitter	6,310	2,267	35.9%	15
Stone Mason	1,597	430	26.9%	8
Surveyor	2,525	0	0.0%	0
Teamster/Truck Driver	24,757	1,664	6.7%	3
Telecommunications Technician	2,729	908	33.3%	3
Tile Finisher	1,158	482	41.6%	4
Tilessetter Installer	705	12	1.7%	1
Traffic Control Striper	682	42	6.1%	3
Well-drill operator	20	0	0.0%	0
<b>Grand Total</b>	<b>748,623</b>	<b>115,537</b>	<b>15.4%</b>	<b>692</b>

**Section 2: PUBLIC WORKS SUBJECT TO THE APPRENTICESHIP REQUIREMENTS AND TOTAL APPRENTICE LABOR HOURS**

King County achieved an overall apprenticeship rate of 15.4% for the report period. The number of contracts subject to the apprenticeship ordinance increased in 2004 as compared to the previous year. The table below illustrates achievements for the report period.

<b>Achievements</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>% Change from 2003</b>
<b>↓Decrease</b> in Total Labor Hours	433,441	931,504	<b>748,623</b>	-19.6%
<b>↓Decrease</b> in Total Apprentice Labor Hours	49,263	151,412	<b>115,537</b>	- 23.7%
<b>↓Decrease</b> in Apprentice Participation Rate	11.4%	16.3%	<b>15.4%</b>	- 0.9%
<b>↑Increase</b> in the Number of Apprentices Employed on County Projects	296	642	<b>692</b>	+7.2%

The number of King County construction contracts subject to the apprenticeship ordinance increased from 32 in 2003 to 44 in 2004.

The total number of labor hours for these projects decreased from 931,504 in 2003 to 748,623 in 2004. The decrease of 182,881 labor hours worked on these projects represents a decline of 19.6%. King County completed several projects executed in earlier years that included goals for the use of apprentices. Substantial completion of these contracts and the start of new ones still in the early stages of construction resulted in an overall decrease in the total number of labor hours and a corresponding reduction in the total number of apprentice labor hours.

Apprentices worked 115,537 total labor hours. In 2003, apprentices worked 151,412 labor hours. The decrease in the total number of labor hours worked by apprentices in 2004, as compared to the previous year, represents a 23.7% decrease.

In 2004, apprentices worked 15.4% of the total labor hours subject to the apprenticeship requirements, compared to 16.3% of all labor hours in 2003. This represents a 0.9% decrease in the overall apprenticeship participation rate in 2004 from the prior report period.

The number of apprentices performing work on county construction projects increased from 642 in 2003 to 692 in 2004. This change represents an increase of 7.2% in the number of participating apprentices in the County's Apprenticeship Program.

A contributing factor to achieving an overall apprentice participation rate of 15% is the number of apprentices employed on the King County Courthouse Seismic Retrofit Project. The \$50-\$60 million King County Courthouse Seismic Retrofit Project to upgrade safety standards in this historical building employed 210 apprentices during the report period. The project continues to boast the highest number of apprentices on a single county project again in 2004. The project employs more than a dozen trades that include carpentry, electrical, HVAC, painting, plumbing, and sheet metal. The prime contractor and its subcontractors achieved an overall apprentice participation rate of 19.3% on this project during the report period.

In addition to the King County Courthouse Seismic Retrofit Project, other major contributors include the Department of Transportation Transit Division's Ryerson Base Bus Parking Expansion project with overall apprentice utilization of 24.7%, and its International Airport Runway 31L Safety Area Improvements project with 21.0% overall apprentice participation at the end of the 2004 report period.

The cycle of major construction projects is also a main contributor to the apprenticeship program. An example of the impact of major construction projects on the outcomes of the apprenticeship program is seen in the Denny Way/Lake Union Combined Sewer Overflow (CSO) project. The Denny Way/Lake Union CSO project consists of five major contracts. Three of the five projects were active in 2001. All five projects were active in 2002. In 2003, and again in 2004, only three of the five projects were active.

The Henderson MLK/CSO Project Tunnel and Pipelines is an example of a large major construction project that was active during 2004. During the report period, this project generated 55,055 total labor hours, to include 7,286.5 apprentice labor hours, and an overall apprentice participation rate of 13.2%.

King County projects anticipated to generate significant numbers of labor hours in the upcoming 2005 and 2006 year include the King County new regional wastewater treatment plant called, "Brightwater".

## POPULATIONS

The populations in King County's Apprenticeship Program consist of six groups:

1. Caucasian Men
2. Minority Men
3. Minority Women
4. Caucasian Women
5. Economically Disadvantaged Youth
6. Disabled persons

During the report period, the total number of labor hours worked by all apprentices decreased from the previous year. In addition, the number of total labor hours worked by women and minority men apprentices decreased from 51,952 in 2003 to 34,751 in 2004. Due to an overall reduction in the number of apprentice labor hours worked by white male apprentices, as compared to the 2003 program year, the overall participation rate of minority apprentices climbed to 30% for the first time since King County's apprenticeship program began in 1997. It is important to note that included in the total labor hours worked by women apprentices are the numbers of labor hours worked by minority women.

Table-1 below contains data on the number of labor hours worked by members of each group and the percent of change between the year 2003 and 2004.

**Table 1- Apprentice Labor Hours Worked by Groups**

Population	2003	2004	% Change	2003	2004	% Change
	No. Persons			Labor Hours		
Caucasian Men	431	493	+12.6%	99,460	80,786	-18.8%
Minority Men	163	145	-11.0%	37,938	30,775	-18.9%
Minority Women	9	12	+25.0%	3,639	3,976	+9.3%
Caucasian Women	39	42	+7.1%	10,375	9,346	-9.9%
Economically Disadvantaged Youth	3	2	-33.3%	24	215	+795.8%
Disabled	0	6	+600%	0	543	+543%



Table-2 below contains data on the participation rate of members of each group and the percent of change between the year 2003 and 2004.

**Table 2 - Apprentice Participation Rate of Groups**

Population	2003	2004	% Change
	Participation Rate		
Caucasian Men	66%	61.8%	-4.2%
Minority Men	25%	26.6%	+1.6%
Minority Women	2%	3.4%	+1.4%
Caucasian Women	7%	8.1%	+1.1%
*Economically Disadvantaged Youth	n/a	0.2%	0.2%
*Disabled	0%	0.5%	+0.5%

\*The number and labor hours for Disabled Persons and Disadvantaged Youth are included in data reported for other populations.

Table 2 – “Apprentice Participation Rate of Groups”, illustrates the modest gains made each year in the diversity of King County’s apprentice population. The participation rate for minorities, women, and disadvantaged youth has increased marginally while the rate of participation for Caucasian men has decreased. The data is reflective of the 2000 Census, which reports that 27% of King County residents are persons of color.

The increased diversity of our region’s workforce presents new challenges for programs that educate and train workers. The number of apprentices employed on County construction projects increased by 7.2% in 2004. This change is indicative of a general increase in the number of construction workers. This change is seen in the disproportional numbers of male apprentices, to include minority males, while the numbers of minority females as apprentices continue to move forward slowly. A cause of the failure for the number of women apprentices to increase is not explainable by a lack of jobs. The lack of representation by women in apprenticeship programs remains a continuing concern.



The rate of participation for minority women apprentices has remained relatively constant for the 2003 and 2004 program years. Since the program’s inception in 1998, the participation rate for minority women has remained between 2% to 3% of the total labor hours worked by all apprentices. The participation rate of minority women declined from 3% in 2001 to minimal participation (two minority women worked 24 hours) in 2002. In 2003, the participation rate for minority women increased modestly to 2.4%. In 2003, the number of labor hours worked by minority women increased dramatically from 24 hours in 2002 to 3,639 as shown in Table-1 – Apprentice Labor Hours Worked by Groups. In 2004, minority women performed 3,976 hours as

compared to 3,639 in 2003; this change represents a gain of 1.4% over the previous program year.

Contractors are instructed to assess eligibility for members of these groups by talking directly to the apprentice to determine his or her qualification as a member of either group (economically disadvantaged youth or disabled). The criteria for eligibility include income level and number of persons in the family, among other factors. Contractors are reluctant to ask questions that probe into these sensitive areas in order to identify members of these two groups. Although the data is speculative, anecdotal evidence supports this assumption.

The apprentice participation rate for Caucasian men decreased from 66% in 2003 to 61.8% in 2004. This change represents a decrease of 4.2% in the participation rate of this group. The apprentice participation rate for Caucasian women increased from 7% in 2003 to 8.1% in 2004. This change represents an increase of 1.1%% in the participation rate of this group.

## Section 4: IMPLEMENTATION ISSUES

### I. Non-compliance of Apprentice Utilization Rates by Contractors

The 2004 program year was marked by transition. The 2004 Apprenticeship Program began with the introduction of a change in the how the county applies the apprenticeship ordinance to select construction contracts. The change is a shift from establishing an apprenticeship 'goal', which contractors aspired to achieve, to a 'required' level of apprentice participation for which sanctions may apply for a contractor's failure to meet it without acceptable justification.

#### b) Contracts Awarded After January 1, 2004

To participate in the Apprenticeship Program, prime contractors and their subcontractors are required to achieve an established apprenticeship requirement stated as a percent of the total labor hours for the project. The program contains provisions for contractors who encounter situations in which they are unable to procure enough apprentices to meet the established requirement. This change does not apply to projects awarded before January 1, 2004.

#### c) Cycle of Construction Projects

The cycle of construction projects has an impact on the overall apprenticeship rate. Many of the larger public works projects active in 2004 are multi-year projects awarded in earlier years. Some projects will extend beyond 2005. In addition, a percent of all contracts awarded during the report period is still in the beginning phase of construction. Prime contractors and their subcontractors will hire additional apprentices at later stages in the construction process. For other projects, contractors simply have not considered compliance with the apprenticeship requirement a priority, and therefore have not complied.

#### d) ESTABLISHMENT OF APPRENTICESHIP REQUIREMENTS

King County uses a process to establish apprenticeship requirements that permits flexibility in determining the level of use for apprentices based on the contract size and scope. This process ensures that the set level of utilization is realistic and consistent with the scope of work, trades, and crafts involved in the project. Contractors and their subcontractors commit to the established apprenticeship requirements for projects; some do not meet these requirements.

### APPRENTICESHIP UTILIZATION PLANS

In the past, contractors often submitted Apprenticeship Utilization Plans (AUP) that identified achievement of the apprenticeship goal, regardless of whether they could actually achieve it. King County now only accepts the AUP after the prime contractor has identified all proposed subcontractors who have committed to using apprentices to achieve the established requirements, and when the plan is reasonable and attainable.

In addition, King County has implemented the use of sanctions against contractors who fail to comply with the established apprenticeship requirements. Sanctions include the use of liquidated damages specified in the contract, and in extreme cases of violation, will include debarment.

## **II. Monthly Apprentice Utilization Reports**

Monthly Apprenticeship Utilization Reports are required from all prime contractors, for themselves and their subcontractors. These reports contain data that enables the County to determine the overall apprenticeship rate for each contract that includes the apprenticeship requirements. Early communication between the County and its contractors enables timely intervention by County project management staff to assist contractors in their Best Efforts to meet the apprenticeship requirements established on their contracts.

During the report period, King County refined its existing reporting tools and conducted one-on-one training with contractors on how to use its web-based reporting website to meet their reporting requirements. Increased communication with contractors coupled with improvements to the web-based reporting site have increased contractor compliance with established reporting timelines. The number of monthly reports submitted from contractors via the US mail has decreased substantially. Online reporting eliminates the need to enter the data manually.

During the report period, King County continued to engage the involvement of project management staff, and others involved in the administration of public works that include the apprenticeship requirements. Project staff provides input on the appropriate level of apprentice use for projects that they administer. Selected projects were of size and scope to provide meaningful opportunities for the use of apprentices. They are typically over \$1 million dollars, and supported by a sufficient number of labor hours to achieve the requirements.

County Contract Compliance staff continues to participate in an increased number of pre-bid and pre-construction meetings to discuss the apprenticeship requirements and provide information to contractors on the importance of submitting accurate and timely reports.

## **III. Challenges Encountered by Participating Apprentices**

King County Code 12.16.175 requires that the program Administrator provide a description of the barriers encountered by apprentices and the steps taken toward resolution of those problems. A means to capture and resolve potential issues encountered by apprentices to encourage their continued participation in the program is

a continuing challenge for King County and other jurisdictions that administer apprenticeship programs.

King County is supportive of pre-apprenticeship training programs that support the pipeline of new apprentices by extending training opportunities through area high schools, community colleges and technical colleges and community organizations. King County also provides annual financial support to the office of Port Jobs that supports the Apprenticeship Opportunities Project (AOP). The AOP helps people in King County prepare for and apply to apprenticeship programs in construction work.

**5:  
PERIOD**

The Washington State Department of Labor and Industries, through the Washington State Apprenticeship and Training Council (SAC) collects and tracks statistics on the number of newly indentured and graduated apprentices.

Data regarding the number of indentured apprentices into SAC approved apprenticeship programs and the number of apprentices graduating to journey level status who performed work on King County projects was unavailable at the time of this report.

## APPENDIX A: GLOSSARY

### ACRONYMS

<b>AOP</b>	Apprenticeship Opportunities Project
<b>AUP</b>	Apprentice Utilization Plan
<b>AUR</b>	Apprentice Utilization Report
<b>CITC</b>	Construction Industry Training Council
<b>CSO</b>	Combined Sewer Overflow
<b>DNRP</b>	Department of Natural Resources and Parks
<b>DOT</b>	Department of Transportation
<b>EDY</b>	Economically Disadvantaged Youth
<b>FHWA</b>	Federal Highway Administration
<b>FMD</b>	Facilities Management Division
<b>MUR</b>	Monthly Utilization Report
<b>PWD</b>	Persons with Disabilities
<b>SAC</b>	Washington State Apprenticeship and Training Council

**DEFINITIONS****Administrator**

The Director of King County's Office of Business Relations and Economic Development.

**Apprentice**

A person who has signed a written Apprenticeship Agreement and enrolled in a training program approved by the Washington State Apprenticeship and Training Council to learn a skilled craft or trade.

**Apprentice Hiring Goal(s)**

The specific goals established by the County for persons with disabilities, economically disadvantaged youth, women and minorities to participate as apprentices on county public work contracts. The goals are stated as a percent of the Apprentice Utilization Requirements for the Contract.

**Apprenticeship Program**

The County's plan for administering King County Code 12.16.150-180 and setting forth compliance requirements for Apprentice Utilization on selected County public work contracts.

**Apprentice Program Requirements**

All actions and efforts required by the contractor as defined by King County Code 12.16.150-180 and the contract language for specific King County contracts.

**Apprentice Utilization Requirements**

The overall percentage of labor hours established for the Contract to be worked by apprentices. The requirement is stated as a percentage of the total labor hours for the Contract.

**Best Efforts**

The strongest possible efforts that Contractors can reasonably make to meet the Apprentice Utilization Requirements and the Apprentice Hiring Goals established for each public works contract selected for participation in the Apprenticeship Program.

**Economically Disadvantaged Youth**

Those persons (18-24 years old) whose annual family income does not exceed the income guidelines for the Federal Free and Reduced Lunch Program, and who have significant barriers to employment, as defined by the Federal Job Training Partnership Act (JTPA).

**Labor Hours**

The total number of projected hours or actual hours for all trades or crafts worked by persons receiving an hourly wage who are directly employed on the site of a public works project. This shall also include hours worked by persons employed by subcontractors on the project.



**APPENDIX B: PROJECTS SUBJECT TO APPRENTICESHIP REQUIREMENTS IN  
2004**

The following tables provide information on public works projects subject to the apprenticeship requirements during the report period. These tables include statistical data on the percentage of labor hours performed by apprentices and the total number of project labor hours worked for the period January 1, 2004 through December 31, 2004.

In addition, each table reports data on the cumulative apprenticeship rate for each project as of December 31, 2004.

**APPENDIX B Projects:  
North Creek Storage Facility**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: North Creek Storage Facility  
 Contract Number: C13008C  
 Prime Contractor: Frank Coluccio  
 Contract Award Amount: \$18,232,000  
 Date Bid: August 28, 2001  
 Type of Construction: Buildings- New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 12.58%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 15.90%

The work under this contract consists of a 6 million gallon underground reinforced concrete wastewater storage facility, a tank drainage system consisting of 4 submersible pumps, an above grade electrical room and two above grade stair towers, an odor control and ventilation system, a 54 inch diameter sanitary sewer, a 42 inch sanitary sewer, manholes, landscaping, irrigation system, an underground reinforced concrete diversion structure, mechanical gates and cleaning system, and instrumentation and control system.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	642.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	362.50	145.50	40.14%	2	0.00	0.00%	42.00	28.87%
Labor	152.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,156.50</b>	<b>145.50</b>	<b>12.58%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>42.00</b>	<b>28.87%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
Sweylocken Pump Station Upgrade

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Sweylocken Pump Station Upgrade  
 Contract Number: C23046C  
 Prime Contractor: Robison Construction  
 Contract Award Amount: \$6,241,969.00  
 Date Bid: October 1, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 15.57%  
**Construction Completed:** 96.00%  
 \*\*\*Cumulative Apprenticeship Rate: 11.30%

Work under this contract includes: initial site preparation, construction of a temporary bypass pumping station, demolition/salvage of selected components of the existing pump station. Renovation of the existing pump station includes replacement of pumps and pumping system, replacement of heating, cooling, ventilation, utility and electrical systems and controls; and construction of a new wetwall and station superstructure. There will also be a new generator building including diesel generator, above ground fuel storage tank, operator wash facilities and switchgear components. Major onsite pipeline work entails construction of gravity sewer lines, forcemains, bypass lines, deep vault, and watermains. There will also be an outdoor odor control facility constructed; site surface improvements including fencing and landscaping, and disposal of construction debris.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Boilermaker	130.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	2,271.00	780.00	34.35%	2	0.00	0.00%	756.00	96.92%
Cement Mason	18.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	11.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Drywall Installer/taper	101.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	184.00	136.00	73.91%	2	0.00	0.00%	0.00	0.00%
Equipment Operator	322.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	452.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation (Heat & Frost)	32.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation Worker	38.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	30.50	5.50	18.03%	1	0.00	0.00%	5.50	100.00%
Irrigation Pump Installer	4.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	2,655.00	42.00	1.58%	1	0.00	0.00%	0.00	0.00%
Other Trade	6.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	184.50	64.00	34.69%	2	0.00	0.00%	39.50	61.72%
Pipefitter	30.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	36.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	94.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Well-drill operator	1.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>6,601.00</b>	<b>1,027.50</b>	<b>15.57%</b>	<b>8</b>	<b>0.00</b>	<b>0.00%</b>	<b>801.00</b>	<b>77.96%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
South Plant Fuel Cell Installation

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Plant Fuel Cell Installation  
 Contract Number: C23050C  
 Prime Contractor: Hawk Mechanical  
 Contract Award Amount: \$1,753,840  
 Date Bid: September 24, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 7.03%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 16.90%

The work under this contract includes but is not limited to: Providing clearing, grubbing, demolition of old concrete, provide reinforced concrete equipment pads for support of the fuel cell and heat recovery equipment; placing owner-furnished fuel cell equipment on equipment pads, provide buried and above ground digester gas piping between the gas burner complex and fuel cell equipment pad, provide transformer with all electrical panels, and provide all other civil, mechanical and electrical work necessary to complete the work called for in the contract specifications.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	448.00	41.00	9.15%	1	0.00	0.00%	0.00	0.00%
Insulation (Heat & Frost)	464.00	36.00	7.76%	1	0.00	0.00%	0.00	0.00%
Laborer	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	729.00	39.00	5.35%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,649.00</b>	<b>116.00</b>	<b>7.03%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
**South Plant Install High Solids Dewatering Centrifuges**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: S. Plant Install High Solids Dewatering Centrifuges  
 Contract Number: C23097C  
 Prime Contractor: Cree Construction Co., Inc.  
 Contract Award Amount: \$8,436,570  
 Date Bid: February 13, 2003  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 20.80%  
**Construction Completed:** 87.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 20.70%

The work under this contract includes the installation of three new high-solid centrifuges in an Expanded Biosolids Dewatering Building at the South Treatment Plant. The building will require an expansion of approximately 4600 square feet and the truck loading scales and bays will be fully expanded. Apprentice participation is expected in (but not limited to): carpentry, electrical, iron work, labor, plumbing, roofing, sprinkler fitter, and sheetmetal trades.

#### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	19.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Bricklayer	806.50	30.00	3.72%	1	0.00	0.00%	0.00	0.00%
Carpenter	9,197.50	2,952.00	32.10%	8	0.00	0.00%	183.00	6.20%
Cement Mason	1,990.50	26.00	1.31%	1	0.00	0.00%	0.00	0.00%
Drywall Installer/taper	124.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	6,771.50	632.00	9.33%	7	0.00	0.00%	104.00	16.46%
Equipment Operator	75.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glaziers	244.63	11.75	4.80%	1	11.75	100.00%	0.00	0.00%
HVAC (Sheet Metal)	1,205.00	41.00	3.40%	2	0.00	0.00%	0.00	0.00%
Insulation Heat Frost	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation Worker	94.00	42.00	44.68%	3	0.00	0.00%	0.00	0.00%
Iron Worker	1,163.00	96.00	8.25%	3	43.00	44.79%	24.00	25.00%
Laborer	3,737.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	1,352.25	641.50	47.44%	10	0.00	0.00%	0.00	0.00%
Painter	522.00	124.50	23.85%	4	108.50	87.15%	0.00	0.00%
Pipefitter	3,230.50	1,815.50	56.20%	12	0.00	0.00%	0.00	0.00%
Plasterer	337.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	3,718.50	994.00	26.73%	4	0.00	0.00%	0.00	0.00%
Roofer	1,094.50	42.00	3.84%	5	0.00	0.00%	42.00	100.00%
Sprinkler Fitter	116.00	12.00	10.34%	2	0.00	0.00%	4.00	33.33%
Teamster/Truck Driver	36.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Telecomm Tech	15.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>35,858.38</b>	<b>7,460.25</b>	<b>20.80%</b>	<b>63</b>	<b>163.25</b>	<b>2.19%</b>	<b>357.00</b>	<b>4.79%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
Elliott West CSO Control Facility

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Elliot West CSO Control Facility  
 Contract Number: C93002C  
 Prime Contractor: Robison Construction  
 Contract Award Amount: \$16,244,300  
 Date Bid: May 9, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 15.34%  
**Construction Completed:** 88.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.10%

The construction of the Elliot West CSO control facility includes building a pump station with a wet well, dry well, electrical room, and mechanical room. Also, maintain and monitor shoring and dewatering system installed under the Mercer Street Tunnel contract. The excavation, shoring, and dewatering system will remain in place for use by the Elliott West CSO Control Facility contract, CSO treatment area, chemical storage area and odor control area, and construction of an addition to the Denny Regulator. This contract also includes instrumentation, controls, and commissioning for the facility and related structures in the vicinity, and also for the East Portal/Drop Structure and the Lake Union Tunnel Regulator.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Boilermaker	1,479.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Bricklayer	1,635.50	122.00	7.46%	3	0.00	0.00%	0.00	0.00%
Carpenter	16,192.00	5,891.00	36.38%	13	1,807.00	30.67%	2,309.50	39.20%
Cement Mason	2,995.25	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	176.75	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrical Lineworker	1,307.00	345.00	26.40%	2	0.00	0.00%	0.00	0.00%
Electrician	6,487.00	2,535.00	39.08%	10	400.00	15.78%	515.00	20.32%
Elevator Constructor	8.00	4.00	50.00%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	3,114.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	18.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glaziers	42.00	2.00	4.76%	1	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	3,003.40	253.70	8.45%	11	0.00	0.00%	0.00	0.00%
Insulation Worker	20.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	1,362.50	96.00	7.05%	3	0.00	0.00%	90.00	93.75%
Laborer	18,489.50	63.00	0.34%	1	0.00	0.00%	42.50	67.46%
Other Trade	32.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	2,147.00	675.50	31.46%	9	9.50	1.41%	351.50	52.04%
Pipefitter	5,402.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	1,116.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	1,672.00	316.50	18.93%	8	0.00	0.00%	108.00	34.12%
Sprinkler Fitter	324.00	69.00	21.30%	1	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	574.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Telecommunications	3.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>67,601.40</b>	<b>10,372.70</b>	<b>15.34%</b>	<b>63</b>	<b>2,216.50</b>	<b>21.37%</b>	<b>3,416.50</b>	<b>32.94%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
Henderson Street Pump Station

Department Name: Department of Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Henderson Street Pump Station  
 Contract Number: C93006C  
 Prime Contractor: Strider Construction, Inc.  
 Contract Award Amount: \$38,000,000  
 Date Bid: June 18, 2001  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 0.82%  
**Construction Completed:** 99.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.80%

The scope of this Contract includes upgrading King County's existing Henderson Street Pumping Station. Work includes construction of temporary pumping facilities; construction of a new below grade wet well; replacement of existing pumping equipment; replacement and improvement of electrical and instrumentation equipment; replacement of existing suction and discharge piping; installation of new heating and ventilation equipment; installation of new odor scrubbing equipment; installation of new generator room and standby generator; and modifications to existing sewer structures and piping. The prime contractor projected apprentice participation from carpentry and masonry.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	34.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	282.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Diver	32.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	282.50	1.00	0.35%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	34.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	26.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	56.75	8.00	14.10%	1	0.00	0.00%	0.00	0.00%
Insulation (Heat & Frost) Worker	2.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	62.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	130.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	126.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	23.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	7.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,097.25</b>	<b>9.00</b>	<b>0.82%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B Projects  
Henderson / MLK Tunnels & Pipeline

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Henderson/MLK Tunnels & Pipeline  
 Contract Number: C93007C  
 Prime Contractor: Tri-State Construction  
 Contract Award Amount: \$41,759,995  
 Date Bid: January 15, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 13.23%  
**Construction Completed:** 93.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 11.40%

The work to be performed under this contract includes construction of a concrete-lined storage/treatment tunnel, an inlet regulator structure, an outlet regulator structure, two new 1900 foot long forcemains, 4100 feet of open cut gravity sewer, 5235 linear feet of tunnel, and 550 feet of storm sewer. Work includes installation of sluice gates, overflow weir, and flow meters, HVAC and plumbing systems, diesel standby generators, electrical and instrumentation systems, site utilities, concrete structures, site utilities, pile supported bridge structures, paving, irrigation and landscaping.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	266.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	20,199.00	2,622.50	12.98%	3	568.50	21.68%	2,054.00	78.32%
Cement Mason	1,324.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	2,608.00	716.00	27.45%	6	160.00	22.35%	190.00	26.54%
Equipment Operator	6,978.50	252.00	3.61%	6	0.00	0.00%	0.00	0.00%
Flagger	634.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	2,077.50	74.00	3.56%	3	0.00	0.00%	8.00	10.81%
Laborer	19,356.00	3,281.00	16.95%	14	0.00	0.00%	1,686.00	51.39%
Millwright	155.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	106.50	52.50	49.30%	2	0.00	0.00%	0.00	0.00%
Painter	242.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	714.50	286.00	40.03%	1	0.00	0.00%	286.00	100.00%
Roofer	8.50	2.50	29.41%	1	0.00	0.00%	2.50	100.00%
Surveyor	256.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	128.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>55,055.00</b>	<b>7,286.50</b>	<b>13.23%</b>	<b>36</b>	<b>728.50</b>	<b>10.00%</b>	<b>4,226.50</b>	<b>58.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B Projects  
South Lake Union Pipelines**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Lake Union Pipelines  
 Contract Number: C93010C  
 Prime Contractor: Frank Coluccio Inc.  
 Contract Award Amount: \$9,939,000  
 Date Bid: February 5, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 11.90%  
**Construction Completed:** 95.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 11.90%

The work under this contract included excavating, shoring, de-watering and structure completion for Central Trunk Diversion Structure, Lake Union Tunnel Regulator, Valley Connection manholes, and pipeline and utility work; construction of pipe for the South Lake Union, Valley Connection, and the Lake Union Tunnel pipelines using jacked-pipe tunnel methods; construction of pipe for the Central Trunk Pipeline using open cut methods; construct pipe for the East Tunnel Portal, and connect certain of these structures to existing sewer trunks.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Boilermaker	89.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	940.50	319.50	33.97%	2	0.00	0.00%	0.00	0.00%
Cement Mason	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	1,182.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	578.50	77.00	13.31%	4	0.00	0.00%	48.00	62.34%
Laborer	1,438.00	112.00	7.79%	1	0.00	0.00%	0.00	0.00%
Other Trade	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	30.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	26.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,340.50</b>	<b>508.50</b>	<b>11.72%</b>	<b>7</b>	<b>0.00</b>	<b>0.00%</b>	<b>48.00</b>	<b>9.44%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
**Renton Transfer Station Roof Replacement**

Department Name: Natural Resources & Parks  
 Division: Solid Waste  
 Project Name: Renton Transfer Station Roof Replacement  
 Contract Number: C33055C  
 Prime Contractor: Interwest Construction  
 Contract Award Amount: \$1,106,346  
 Date Bid: April 22, 2003  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 19.50%

The Prime contractor projected apprentice participation from the following trades: Carpentry, Electrical, Equipment Operator, Iron Worker, Painting, Sheetmetal. Work on this contract included demolition and replacement of existing roof structure; installation of concrete catwalks, mechanical piping; light fixtures, electrical work, and lead abatement. Demolition of scalehouse, foundation and shed, removal of asphalt/concrete, installation of furnished scalehouse, HVAC system, installation of mechanical filter, asbestos abatement; and installation of a diesel generator and above-ground tank.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	1.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>9.50</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
**Cedar Hills Landfill & Offsite Facilities SCADA**

Department Name: Natural Resources & Parks  
 Division: Solid Waste  
 Project Name: Cedar Hills Landfill & Offsite Facilities SCADA  
 Contract Number: C33058C  
 Prime Contractor: TSI  
 Contract Award Amount: \$724,846  
 Date Bid: July 3, 2003  
 Type of Construction: Buildings-Alterations

**Apprenticeship Requirement:** 9%  
**2004 Apprenticeship Rate:** 14.86%  
**Construction Completed:** 98%

The work under this contract includes providing new leachate pump control panels, radio connections to the existing LAN/WAN and other hardware installations to create a full functional supervisory control and data acquisition system at the King County Solid Waste Division sites with environmental control systems.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	1,373.00	204.00	14.86%	6	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,373.00</b>	<b>204.00</b>	<b>14.86%</b>	<b>6</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects:  
**Cedar Hills Landfill**

Department Name: Natural Resources & Parks  
 Division: Solid Waste  
 Project Name: Cedar Hills Landfill  
 Contract Number: C33089C  
 Prime Contractor: Robison construction Inc.  
 Contract Award Amount: \$22,254,480  
 Date Bid: July 31, 2003  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 9.00%  
**2004 Apprenticeship Rate:** 14.59%  
**Construction Completed:** 91.00%  
 \*\*\*Cumulative Apprenticeship Rate: 10.40%

The work under this contract includes; grading, compacting, trenching, backfilling soils, erosion and sedimentation control, installing geosynthetic materials and pipes, constructing extraction wells and pumping facilities, boring and jacking, constructing a new refuse disposal area, and staging the closure of the existing refuse disposal area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	644.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operater	58,712.25	11,186.00	19.05%	9	708.00	6.33%	5,333.00	47.68%
Fence Erector	21.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	25.00	25.00	100.00%	2	0.00	0.00%	0.00	0.00%
Laborer	19,360.00	1,053.00	5.44%	4	636.00	60.40%	403.00	0.00%
Landscaper	381.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	452.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	1,033.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	3,401.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>84,029.75</b>	<b>12,264.00</b>	<b>14.59%</b>	<b>15</b>	<b>1,344.00</b>	<b>10.96%</b>	<b>5,736.00</b>	<b>46.77%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B Projects:  
East Base Remodel**

Department Name: Transportation  
 Division: Transit  
 Project Name: East Base Remodel  
 Contract Number: C23006C  
 Prime Contractor: Powell Construction  
 Contract Award Amount: \$2,863,298  
 Date Bid: November 21, 2002  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 11.44%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 13.70%

The work under this contract includes but is not limited to remodeling a portion of the Operations building and Vehicle Maintenance building at King County Metro Transit's East Operation Base. The improvements at the Operations building include adding approximately 3442 square feet of new floor area at the main entrance to the building and on the opposite side, and interior of the building. The improvements within the Vehicle Maintenance building include expanding the existing mezzanine level. The improvement also adds approximately 1253 square feet of work area. The project includes redesign of existing landscaping and results in the loss of approximately 1702 square feet of previously landscaped area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	42.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	244.50	26.00	10.63%	3	0.00	0.00%	26.00	100.00%
Drywall Installer/Taper	62.00	31.00	50.00%	1	0.00	0.00%	0.00	0.00%
Electrician	34.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glaziers	18.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	95.50	15.00	15.71%	1	0.00	0.00%	0.00	0.00%
Irrigation Pump Installation	2.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	111.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Landscaper	2.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	16.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	2.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>629.50</b>	<b>72.00</b>	<b>11.44%</b>	<b>5</b>	<b>0.00</b>	<b>0.00%</b>	<b>26.00</b>	<b>36.11%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B Projects  
South Base Remodel**

Department Name: Transportation  
 Division: Transit  
 Project Name: South Base Remodel  
 Contract Number: C23007C  
 Prime Contractor: Pellco Construction  
 Contract Award Amount: \$2,981,000  
 Date Bid: October 1, 2002  
 Type of Construction: Buildings-Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Achieved:** 43.81%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 20.60%

The work under this contract includes remodeling a portion of the Operations building and Vehicle Maintenance building at the King County Metro Transit's South Operating Base. The improvements at the Operations building include adding approximately 3442 square feet of new floor to create more space. The improvements to the Vehicle Maintenance building add approximately 1253 square feet of work area. The project also includes redesign of the existing landscaping and results in the loss of approximately 1702 square feet of previously landscaped area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	121.50	32.50	26.75%	1	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	4.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	40.00	40.00	100.00%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>165.50</b>	<b>72.50</b>	<b>43.81%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

## APPENDIX B: Projects Eastgate Park and Ride Expansion

Department Name: Transportation  
 Division: Transit  
 Project Name: Eastgate Park and Ride Expansion  
 Contract Number: C23031C  
 Prime Contractor: Baugh-Skanska  
 Contract Award Amount: \$13,281,000  
 Date Bid: December 5, 2003  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 13.78%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.30%

The work contained in this contract is part of the Eastgate Park-and-Ride expansion project. Under this contract a five-story, 1,321 stall garage will be built and the site will be redeveloped with updated detention facilities, bus loading and layover, and passenger platform with canopy. The capacity of the park-and-ride will increase from 700 stalls to 1,656 stalls.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	43.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	2,227.50	434.00	19.48%		78.00	17.97%	356.00	82.03%
Cement Mason	2,873.50	44.50	1.55%	2	0.00	0.00%	17.50	39.33%
Concrete Boom Pumper	3.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Drywall Installer/Taper	61.00	9.50	15.57%	1	0.00	0.00%	0.00	0.00%
Electrician	6,009.50	1,538.00	25.59%	10	796.50	51.79%	184.00	11.96%
Elevator Constructor	651.00	326.00	50.08%	3	0.00	0.00%	0.00	0.00%
Equipment Operator	3,175.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	4,160.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	501.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	465.60	57.00	12.24%	5	0.50	0.88%	40.50	71.05%
Iron Worker	4,343.00	541.00	12.46%	2	0.00	0.00%	0.00	0.00%
Laborer	4,414.50	1,070.00	24.24%	4	0.00	0.00%	446.00	41.68%
Landscaper	1,849.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	1,639.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	713.50	303.00	42.47%	2	0.00	0.00%	0.00	0.00%
Plumber	642.80	39.00	6.07%	4	0.00	0.00%	5.00	12.82%
Sprinkler Fitter	1,190.00	564.50	47.44%	3	0.00	0.00%	0.00	0.00%
Surveyor	111.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	252.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Traffic Control Stripper	426.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>35,754.20</b>	<b>4,926.50</b>	<b>13.78%</b>	<b>36</b>	<b>875.00</b>	<b>17.76%</b>	<b>1,049.00</b>	<b>21.29%</b>

#### Notes:

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



**APPENDIX Projects  
CSC HVAC Replacement**

Department Name: Transportation  
 Division: Transit  
 Project Name: CSC HVAC Replacement  
 Contract Number: C23131C  
 Prime Contractor: Diamond B Constructors  
 Contract Award Amount: \$4,152,331  
 Date Bid: December 12, 2002  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement: 15.00%**  
**2004 Apprenticeship Rate: 19.06%**  
**Construction Completed: 100.00%**  
 \*\*\*Cumulative Apprenticeship Rate: 12.40%

The contract scope of work includes replacement of the shop area rooftop HVAC equipment, installation of a new HVAC direct digital controller system; replacement of the building fire monitoring panel and devices, installation of localized dust/paint/fume collection equipment, and other work as described in the contract to complete the replacement project.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	99.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	5,008.00	1,055.00	21.07%	7	134.00	12.70%	211.00	20.00%
HVAC (Sheet Metal)	1,463.00	201.00	13.74%	1	0.00	0.00%	0.00	0.00%
Other Trade	4,075.50	786.00	19.29%	6	72.00	9.16%	0.00	0.00%
Pipefitter	87.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	129.50	39.00	30.12%	5	0.00	0.00%	22.50	0.00%
Sprinkler Fitter	58.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>10,920.50</b>	<b>2,081.00</b>	<b>19.06%</b>	<b>19</b>	<b>206.00</b>	<b>9.90%</b>	<b>233.50</b>	<b>11.22%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

## APPENDIX B Projects Base Parking Garage Construction

Department Name: Transportation  
 Division: Transit  
 Project Name: Base Parking Garage Construction  
 Contract Number: C33092C  
 Prime Contractor: Berschauer Phillips Construction Company  
 Contract Award Amount: \$11,244,753  
 Date Bid: July 29, 2003  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 16.47%  
**Construction Completed:** 99.00%  
**\*\*Cumulative Apprenticeship Rate:** 17.70%

This contract requires construction of a 1,000-stall, 5-story parking garage, a key component of the program to expand bus parking at the Atlantic, Central, and Ryerson Transit Bases. The garage is to consolidate parking for employees and non-revenue vehicles to free up nearly 5 acres for expanded bus parking.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
	294.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00
Bricklayer	872.30	124.75	14.30%	5	0.00	0.00%	17.75	14.23%
Carpenter	29,662.50	4,205.50	0.00%	9	39.50	0.94%	1,306.00	31.05%
Cement Mason	783.50	92.00	11.74%	1	0.00	0.00%	74.00	80.43%
Electrician	5,323.50	1,256.00	23.59%	4	38.50	3.07%	339.00	26.99%
Equipment Operator	2,106.00	15.50	0.74%	2	0.00	0.00%	0.00	0.00%
Glaziers	484.00	6.80	1.40%	2	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	718.00	5.75	0.80%	2	0.00	0.00%	1.75	30.43%
Insulation (Heat & Frost) Worker	12.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	11,592.40	2,395.00	20.66%	10	88.00	3.67%	198.00	8.27%
Laborer	14,987.00	2,649.00	17.68%	6	0.00	0.00%	823.00	31.07%
Painter	165.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	167.50	45.50	27.16%	1	0.00	0.00%	0.00	0.00%
Pipefitter	405.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	1,293.25	610.50	47.21%	3	1.50	0.25%	36.00	5.90%
Roofer	163.55	84.05	51.39%	3	0.00	0.00%	66.05	78.58%
Sprinkler Fitter	116.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	13.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	49.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Telecommunications Technician	122.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Tile Finisher	203.00	18.00	8.87%	2	0.00	0.00%	0.00	0.00%
Other Trade	396.00	8.00	2.02%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>69,930.30</b>	<b>11,516.35</b>	<b>16.47%</b>	<b>51.00</b>	<b>167.50</b>	<b>1.45%</b>	<b>2,861.55</b>	<b>24.85%</b>

#### Notes:

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
**140<sup>th</sup> Ave Southeast (SE 197<sup>th</sup> Place to Petrovitsky Road)**

Department Name: Transportation  
 Division: Roads  
 Project Name: 140th Ave Southeast (SE 197th Place to Petrovitsky Road)  
 Contract Number: C23027C  
 Prime Contractor: Scarsella Brothers, Inc.  
 Contract Award Amount: \$8,133,087  
 Date Bid: October 10, 2002  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 14.07%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 11.00%

The Contract scope of work provides for improvements of 140th Avenue Southeast from Southeast 197th Place to Southeast Petrovitsky Road by clearing and grubbing, removing asphalt-concrete pavement, grading, drainage, installation of sanitary sewer, installation of water lines, landscaping and other civil and electrical work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Cement Mason	793.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	1,439.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	7,234.00	1,575.00	21.77%	4	79.50	5.05%	16.00	1.02%
Fence Erector	597.75	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	14,352.00	1,736.00	12.10%	6	323.00	18.61%	995.00	57.32%
Landscaper	1,610.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	4,026.65	971.00	24.11%	1	0.00	0.00%	971.00	100.00%
Traffic Control Striper	88.50	14.25	16.10%	1	0.00	0.00%	0.00	0.00%
Other Trade	384.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>30,524.90</b>	<b>4,296.25</b>	<b>14.07%</b>	<b>12</b>	<b>402.50</b>	<b>9.37%</b>	<b>1,982.00</b>	<b>46.13%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

## APPENDIX B Projects Courthouse Seismic Upgrade

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Courthouse Seismic Project  
 Contract Number: C14064C  
 Prime Contractor: Baugh Skanska  
 Contract Award Amount: \$50,889,974  
 Date Bid: August 2, 2001  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 16.91%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 19.30%

The contract scope of work is to upgrade the King County Courthouse structural system to meet the current performance criteria during an earthquake for new structures in Seattle. As part of the structural system upgrades, the project includes fire/life safety upgrades including the installation of a sprinkler system, emergency power, and pressurization of elevator shafts and stairwells. In addition, the project includes improvements to the building's telecommunication infrastructure, heating and air conditioning system, and court security systems.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical	4,199.00	470.00	11.19%	10	0.00	0.00%	0.00	0.00%
Bricklayer	752.50	259.50	34.49%	3	0.00	0.00%	84.00	32.37%
Carpenter	23,530.50	2,936.50	12.48%	25	721.00	24.55%	273.00	9.30%
Cement Mason	1,059.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	50.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Drywall	13,990.00	1,000.50	7.15%	10	0.00	0.00%	0.00	0.00%
Electrician	26,568.50	6,056.50	22.80%	53	646.00	10.67%	157.00	2.59%
Equipment Operator	4,084.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Floor Layer	120.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Glazier	981.50	363.00	36.98%	7	0.00	0.00%	0.00	0.00%
HVAC	11,963.25	2,492.30	20.83%	21	0.00	0.00%	844.00	33.86%
Insulation (Heat & Frost)	322.00	172.00	53.42%	2	0.00	0.00%	0.00	0.00%
Ironworker	14,452.50	2,469.00	17.08%	8	1,825.50	73.94%	224.00	9.07%
Laborer	27,884.50	5,192.00	18.62%	32	100.00	1.93%	1,357.00	26.14%
Other Trade	1,825.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	2,657.00	120.00	4.52%	4	0.00	0.00%	0.00	0.00%
Plasterer	311.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	10,980.50	1,511.00	13.76%	12	0.00	0.00%	0.00	0.00%
Sprinkler Fitter	4,506.00	1,599.50	35.50%	9	0.00	0.00%	842.50	52.67%
Stone Mason	1,596.50	430.00	26.93%	8	0.00	0.00%	200.00	46.51%
Telecommunications Tech	2,588.00	908.50	35.10%	3	328.00	36.10%	0	0.00%
Tile Finisher	954.50	390.00	40.86%	2	0.00	0.00%	0	0.00%
Tile Setter Installer	662.00	12.00	1.81%	1	0.00	0.00%	0	0.00%
<b>Total</b>	<b>156,039.05</b>	<b>26,382.30</b>	<b>16.91%</b>	<b>210</b>	<b>3,620.50</b>	<b>13.72%</b>	<b>3,981.50</b>	<b>15.09%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B Projects  
West Point Treatment Plant – 401 Generator

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: West Point Treatment Plant - 401 Generator  
 Contract Number: C03149C  
 Prime Contractor: Cochran Inc.  
 Contract Award Amount: \$1,222,500  
 Date Bid: July 29, 2003  
 Type of Construction: Buildings/Alterations

**Apprenticeship Requirement:** 14.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 88.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this contract includes the replacement of the existing 600kW emergency "401 Generator" with a new 730kW emergency generator, isolating the new generator cooling system from the existing plant heat loop with the installation of a new remote radiator, installation of a new automatic transfer switch, motor control center and all associated equipment, connecting selected existing equipment to standby power and providing new battery capacity for existing fire alarm panels.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	95.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	2,797.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Insulation Worker	40.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	276.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	210.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	246.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>3,664.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
South Plant MCC Upgrade

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Plant MCC Upgrade  
 Contract Number: C23010C  
 Prime Contractor: Milne Electric  
 Contract Award Amount: \$333,335  
 Date Bid: October 16, 2003  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 50.00%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 34.00%

The work under this contract includes furnishing all labor, materials, equipment, overhead and supervision, for the removal, disposal, and replacement of four new 600 volt Motor Control Centers (MCC's) and modified MCC buckets. Other work includes, but is not limited to, identifying, tracing, pulling, re-pulling, labeling and terminating wiring. The location of the work is at the King County South Treatment Plant on Monster Road.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	256.00	128.00	50.00%	1	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>256.00</b>	<b>128.00</b>	<b>50.00%</b>	<b>1</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Kenmore Park & Ride Expansion and Site Improvements**

Department Name: Transportation  
 Division: Transit  
 Project Name: Kenmore Park & Ride Expansion and Site Improvements  
 Contract Number: C33072C  
 Prime Contractor: A-1 Landscaping and Construction  
 Contract Award Amount: \$834,786  
 Date Bid: January 6, 2004  
 Type of Construction: Park and Ride Lot

**Apprenticeship Requirement:** 11.00%  
**2004 Apprenticeship Rate:** 12.35%  
**Construction Completed:** 98.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 12.40%

Work under this Contract consists of supplying all labor, superintendence, materials, and equipment necessary for the expansion of parking capacity and layover capacity at the Kenmore park and ride lot. The expansion will be construction of new parking capacity on the northern half of the adjacent St. Vincent dePaul property and modifications to the existing Kenmore Park and Ride lot located at 7346 NE Bothell Way (SR-522) to accommodate additional coach layover.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	1,043.00	29.50	2.83%	1	0.00	0.00%	29.50	100.00%
Cement Mason	873.60	248.50	28.45%	1	0.00	0.00%	248.50	100.00%
Equipment Operator	674.35	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	18.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	1.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	1,188.40	278.00	23.39%	1	0.00	0.00%	278.00	100.00%
Landscaper	621.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	28.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	54.10	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,501.95</b>	<b>556.00</b>	<b>12.35%</b>	<b>1.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>556.00</b>	<b>100.00%</b>

See note below

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

Note: same apprentice worked in all three trades

Same apprentice worked in all three trades

APPENDIX B: Projects  
Redondo Heights Park & Ride

Department Name: Transportation  
 Division: Transit  
 Project Name: Redondo Heights Park & Ride  
 Contract Number: C33035C  
 Prime Contractor: SCI Infrastructure, L.L.C.  
 Contract Award Amount: \$3,959,000  
 Date Bid: August 14, 2003  
 Type of Construction: Park and Ride Lot

**Apprenticeship Requirement:** 15.00%  
**A2004 pprenticeship Rate:** 15.49%  
**Construction Completed:** 97.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 15.10%

The work under this contract includes: constructing an approximately 700-stall park-and-ride lot. The scope of work includes, but is not limited to, cleanup and demolition of an existing sand blasting unit; disposal of hazardous waste; site grading and excavating; installation of utilities; finishing and curing of asphalt concrete; landscaping; lighting and work associated with the project's art work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	2,093.50	409.00	19.54%	3	0.00	0.00%	0.00	0.00%
Cement Mason	2,689.50	535.50	19.91%	0	0.00	0.00%	195.00	36.41%
Concrete Boom Pumper	13.30	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrical	2,991.00	1,590.00	53.16%	8	0.00	0.00%	0.00	0.00%
Equipment Operator	3,662.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Fence Erector	77.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	58.10	25.00	43.03%	2	0.00	0.00%	0.00	0.00%
Insulation Worker	3.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	179.00	88.00	49.16%	0	0.00	0.00%	88.00	100.00%
Laborer	6,527.00	842.50	12.91%	0	0.00	0.00%	158.50	18.81%
Landscaper	1,963.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	14.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	330.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	1,918.80	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Traffic Control Striper	118.50	21.50	18.14%	2	0.00	0.00%	0.00	0.00%
Other Trade	27.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>22,666.00</b>	<b>3,511.50</b>	<b>15.49%</b>	<b>15</b>	<b>0.00</b>	<b>0.00%</b>	<b>441.50</b>	<b>12.57%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B: Projects  
**S. 277<sup>th</sup> Street Reconstruction – Phase 3**

Department Name: Transportation  
 Division: Roads  
 Project Name: S. 277th Street Reconstruction - Phase 3  
 Contract Number: C33019C  
 Prime Contractor: Scarsella Brothers  
 Contract Award Amount: 8,319,364  
 Date Bid: October 9, 2003  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 9.60%  
**Construction Completed:** 72.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 5.00%

This project provides for the improvements at the location of South 277th Street from West Valley Highway to Frontage Road by constructing filter media berms, detention ponds, mechanically stabilized earth walls, and drilled shafts. It includes widening Bridge No. 167/119, constructing wing walls, approach slabs, steel column jacket assemblies around the existing bridge columns, and installing a bridge deck waterproofing membrane. In addition, work involves concrete slope protection, paving and surfacing, sidewalk construction, pavement markings, guardrail and traffic barrier, signals and lights, installing an ITS system, landscaping, erosion control, traffic control, fencing, surveying, and other work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	3,325.50	116.50	3.50%	1	0.00	0.00%	0.00	0.00%
Cement Mason	276.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Concrete Boom Pumper	22.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	3,045.50	1,008.50	33.11%	6	0.00	0.00%	0.00	0.00%
Equipment Operator	21,313.55	1,872.50	8.79%	11	129.00	6.89%	245.00	13.08%
Fence Erector	288.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Iron Worker	296.50	11.00	3.71%	1	0.00	0.00%	0.00	0.00%
Laborer	18,159.80	2,263.00	12.46%	6	503.00	22.23%	278.50	12.31%
Landscaper	3,073.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	21.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	6,347.50	132.00	2.08%	2	0.00	0.00%	0.00	0.00%
Traffic Control Stripper	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	98.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>56,298.35</b>	<b>5,403.50</b>	<b>9.60%</b>	<b>27</b>	<b>632.00</b>	<b>11.70%</b>	<b>523.50</b>	<b>9.69%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
124<sup>th</sup> Ave. NE (NE 132<sup>nd</sup> St to NE 145<sup>th</sup> Pl.)

Department Name: Transportation  
 Division: Roads  
 Project Name: 124th Ave. NE (NE 132nd St. to NE 145th Pl.)  
 Contract Number: C33093C  
 Prime Contractor: KLB Construction  
 Contract Award Amount: \$3,192,442  
 Date Bid: December 11, 2003  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 7.29%  
**Construction Completed:** 74.00%  
 \*\*\*Cumulative Apprenticeship Rate: 8.00%

This project provides for the improvement of 124th Avenue NE from NE 132nd Street to NE 145th Place in King County by installing drainage, a water quality pond, a detention tank, sidewalks, driveways, block walls, illumination, traffic signal, and lighted crosswalk systems, paving, landscaping, and mitigation.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	144	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	781.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrical Line Worker	172.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	301.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	2,617.00	48.00	1.83%	1	0.00	0.00%	0.00	0.00%
Flagger	2,827.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	3,577.00	800.00	22.37%	3	298.50	37.31%	452.50	56.56%
Landscaper	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	235.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	171.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	915.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>11,627.00</b>	<b>848.00</b>	<b>7.29%</b>	<b>4</b>	<b>298.50</b>	<b>35.20%</b>	<b>452.50</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**S. Mercer Isl. Pump Station Standby Generator**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: S. Mercer Isl. Pump Station Standby Generator  
 Contract Number: C03108C  
 Prime Contractor: Midmountain  
 Contract Award Amount: \$1,072,826  
 Date Bid: January 15, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 6.00%  
**2004 Apprenticeship Rate:** 12.23%  
**Construction Completed:** 83.00%  
 \*\*\*Cumulative Apprenticeship Rate: 12.20%

The work in part consists of site work with temporary erosion control, asphalt pavement removal and replacement, excavation with sheet pile shoring, underground sewer and utility relocations, construction of new generator structure, installation of site utilities, installation of new 400KW standby diesel generator, installation of 800 gal. underground diesel fuel storage tank. Work also includes restoration of the construction site and easement areas, backfill, roadway, and soil preparation for new landscaping.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	2,562.00	609.50	23.79%	1	0.00	0.00%	0.00	0.00%
Cement Mason	177.00	18.50	10.45%	2	0.00	0.00%	0.00	0.00%
Concrete Boom Pump.	9.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	222.00	48.00	21.62%	2	0.00	0.00%	24.00	50.00%
Equipment Operator	381.00	26.50	6.96%	2	0.00	0.00%	0.00	0.00%
HVAC Sheet Metal	64.00	32.00	50.00%	1	0.00	0.00%	0.00	0.00%
Iron Worker	80.00	12.00	15.00%	1	0.00	0.00%	0.00	0.00%
Laborer	1,110.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	37.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	152.00	14.00	9.21%	1	0.00	0.00%	0.00	0.00%
Surveyor	929.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Teamster/Truck Driver	465.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>6,219.00</b>	<b>760.50</b>	<b>12.23%</b>	<b>10</b>	<b>0.00</b>	<b>0.00%</b>	<b>24.00</b>	<b>3.16%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B: Projects  
Pacific Pump Station**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Pacific Pump Station  
 Contract Number: C33096C  
 Prime Contractor: Midmountain  
 Contract Award Amount: \$3,792,143  
 Date Bid: February 5, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 7.19%  
**Construction Completed:** 7.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 2.50%

The work under this Contract is for the construction of a new, approximately 4550 square foot, three floor Pump Station, including pumps, piping, variable frequency drives, controls, ancillary systems, building systems, and site work. Rehabilitation and installation of engine generator, construction of approximately 573 feet of 15-inch, 18-inch, and 24-inch PVC influent sewer pipe, construction of approximately 600 feet of new 12 inch ductile iron force main pipeline, piping beneath existing stream, trail, and power line, transfer of sewage flows from existing pump station to new, abandonment of existing pump station, relocation of various utilities to accommodate new pipelines, and construction of a new trail connection to the Interurban trail.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	131.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	586.00	56.00	9.56%	3	6.00	10.71%	0.00	0.00%
Irrigation Pump Installer	9.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	1,930.00	140.50	7.28%	3	0.00	0.00%	0.00	0.00%
Surveyor	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Well-drill Operator	18.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	28.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>2,734.00</b>	<b>196.50</b>	<b>7.19%</b>	<b>6</b>	<b>6.00</b>	<b>3.05%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**KC International Airport S. Stormwater Pump Station**

Department Name: Transportation  
 Division: King County International Airport  
 Project Name: KC International Airport S. Stormwater Pump Station  
 Contract Number: C43029C  
 Prime Contractor: Standard Construction, Inc.  
 Contract Award Amount: \$298,112  
 Date Bid: March 16, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 95.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this Contract includes removing the existing stormwater pumps, motors and electrical controls, providing and installing new submerged pumps, motors and providing and installing new electrical controls at the King County International Airport (KCIA). The project is to replace the existing above ground pumping system with four new 10,025 gpm submersible pumps and associated electrical control systems.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	45.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	20.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>65.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Star Lake Remodel and Addition**

Department Name: Transportation  
 Division: Roads  
 Project Name: Star Lake Remodel and Addition  
 Contract Number: C43019C  
 Prime Contractor: Briere and Associates  
 Contract Award Amount: \$306,843  
 Date Bid: April 8, 2004  
 Type of Construction: Buildings -Alterations

**Apprenticeship Requirement:** 10.00%  
**2004 Apprenticeship Rate:** 7.70%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 7.70%

Liquidated damages were applied as a result of not meeting the requirement. The work under this contract includes construction of a 1624 square foot two story wood framed addition to the existing office at the Star Lake Maintenance Facility, with minor remodeling to portions of the existing 865-square-foot office area.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Acoustical Worker	31.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Bricklayer	24.00	8.00	33.33%	1	0.00	0.00%	0.00	0.00%
Carpenter	1,038.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	24.00	8.00	33.33%	1	0.00	0.00%	0	0.00%
Electrician	565.00	133.00	23.54%	1	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	236.75	40.75	17.21%	6	0.00	0.00%	27.50	67.48%
Insulation Worker	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	31.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	4.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Painter	96.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	176.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	8.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Soft Floor Layer	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Tilesetter Installer	42.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>2,325.25</b>	<b>189.75</b>	<b>8.16%</b>	<b>9</b>	<b>0.00</b>	<b>0.00%</b>	<b>27.50</b>	<b>14.49%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**2004 N. County Asphalt Concrete Pavement Overlay**

Department Name: Transportation  
 Division: Roads  
 Project Name: 2004 North County Asphalt Concrete Pavement Overlay  
 Contract Number: C43087C  
 Prime Contractor: Rinker Materials  
 Contract Award Amount: \$1,950,491  
 Date Bid: July 1, 2004  
 Type of Construction: Roads

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 17.23%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 5.50%

This project provides for the improvements to 17.36 miles of roadway in North King County by planing bituminous surfaces, removing raised pavement markers, rumble strips, and plastic traffic markings, paving with asphalt concrete Class B, placing crushed surfacing, erosion control, and other work, in accordance with the following Special Provisions in conjunction with the 2002 Standard Specifications for Road, Bridge and Municipal Construction issued by the Washington State Department of Transportation and the American Public Works Association and the 1993 King County Roads Standards.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Equipment Operator	3,063.55	1,152.30	37.61%	3	0.00	0.00%	0.00	0.00%
Flagger	4,071.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	1,370.00	534.00	38.98%	2	274.50	51.40%	259.50	48.60%
Teamster/Truck Driver	1,284.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>9,789.05</b>	<b>1,686.30</b>	<b>17.23%</b>	<b>5</b>	<b>274.50</b>	<b>16.28%</b>	<b>259.50</b>	<b>15.39%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**2004 S. County Asphalt Concrete Pavement Overlay**

Department Name: Transportation  
 Division: Roads  
 Project Name: 2004 South County Asphalt Concrete Pavement Overlay  
 Contract Number: C43088C  
 Prime Contractor: ICON Materials  
 Contract Award Amount: \$1,909,088  
 Date Bid: July 1, 2004  
 Type of Construction: Roads Division

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 5.05%  
**Construction Completed:** 100.00%  
 \*\*\*Cumulative Apprenticeship Rate: 3.70%

This project provides for the improvements to 22.98 miles of roadway in South King County by planing bituminous surfaces, removing raised pavement markers, rumble strips, and plastic traffic markings, paving with asphalt concrete Class B, placing crushed surfacing, erosion control, and other work, in accordance with the following Special Provisions in conjunction with the 2002 Standard Specifications for Road, Bridge and Municipal Construction, issued by the Washington State Department of Transportation and the American Public Works Association and the 1993 King County Roads Standards.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Equipment Operator	3,537.50	133.50	3.77%	2	0.00	0.00%	0.00	0.00%
Laborer	4,980.50	484.50	9.73%	4	152.00	31.37%	273.50	56.45%
Teamster/Truck Driver	3,708.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>12,226.50</b>	<b>618.00</b>	<b>5.05%</b>	<b>6</b>	<b>152.00</b>	<b>24.60%</b>	<b>273.50</b>	<b>44.26%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



## APPENDIX B: Projects Power Distribution Headquarters Replacement

Department Name: Transportation  
 Division: Transit  
 Project Name: Power Distribution Headquarters Replacement  
 Contract Number: C33001C  
 Prime Contractor: Kassel Construction, Inc.  
 Contract Award Amount: \$5,602,880  
 Date Bid: November 18, 2003  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 15.28%  
**Construction Completed:** 62.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 14.20%

The work under this Contract includes but is not limited to site preparation including demolition of existing 14,000sf building and parking structure, grading, earthwork, storm drainage, underground utilities, paving, staging area preparation, securing permits, construction of structural footings and steel building, overhead canopy construction, all mechanical, architectural and electrical components, and coordination of all other activities.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	22.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Carpenter	3,243.50	592.00	18.25%	6	23.00	0.00%	36.50	6.17%
Drywall Installer/Taper	8.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	1,423.50	336.00	23.60%	1	336.00	100.00%	0.00	0.00%
Equipment Operator	196.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	541.00	120.50	22.27%	1	0.00	0.00%	0.00	0.00%
Insulation worker	32.00	32.00	100.00%	1	0.00	0.00%	0.00	0.00%
Iron Worker	689.50	107.50	15.59%	2	0.00	0.00%	0.00	0.00%
Laborer	99.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver	938.00	153.50	16.36%	1	0.00	0.00%	0.00	0.00%
Pipefitter	387.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plasterer	30.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	1,146.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Roofer	255.50	41.00	16.05%	3	18.50	45.12%	18.50	45.12%
Other Trade	37.00	0.00		0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>9,048.50</b>	<b>1,382.50</b>	<b>15.28%</b>	<b>15</b>	<b>377.50</b>	<b>27.31%</b>	<b>65.00</b>	<b>3.98%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Concrete Maintenance 2004-2005**

Department Name: Transportation  
 Division: Transit  
 Project Name: Concrete Maintenance 2004-2005  
 Contract Number: C43051C  
 Prime Contractor: Cutter Inc.  
 Contract Award Amount: NTE \$300,000  
 Date Bid: n/a  
 Type of Construction: Facility Maintenance

**Apprenticeship Requirement:** 5.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 82.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this Contract includes furnishing all labor, materials, and equipment necessary to perform small concrete maintenance work on King County Transit facilities. On short notice (72 hours or less), the Contractor shall be available to mobilize and perform small concrete maintenance work on facilities maintained by King County Transit. The type of work involved is curb and gutter repair and replacement, and other Portland Concrete Cement Pavement ("PCCP") maintenance work. The work requires principally civil/structural contractors, and related trades.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	155.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	227.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	182.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Other Trade	24.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>588.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Administration Bldg. Elevator Modernization**

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Admin Elevator Modernization  
 Contract Number: C33133C  
 Prime Contractor: Vertical Transportation  
 Contract Award Amount: \$327,000  
 Date Bid: April 27, 2004  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 48.40%  
**Construction Completed:** 85.00%  
**\*\*Cumulative Apprenticeship Rate:** 48.40%

The work under this Contract involves modernization and seismic upgrades for elevator cars #1, #2, and #4 in the King County Administration Building. It includes retrofitting existing elements, adding new systems including controller systems and modernization of the car interiors. Concurrent with the construction work, the Contractor shall take over Maintenance Service responsibilities of an existing contractor of four existing Houghton passenger elevators.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Elevator Constructor	1,397.00	674.00	48.25%	3	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,397.00</b>	<b>674.00</b>	<b>48.25%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
Enumclaw Fairgrounds RV Campground

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Enumclaw Fairgrounds RV Campground  
 Contract Number: C43037C  
 Prime Contractor: Sefnco Communications, Inc.  
 Contract Award Amount: \$317,620  
 Date Bid: March 23, 2003  
 Type of Construction: Site Demolition and Improvements

**Apprenticeship Requirement:** 5.00%  
**2004 Apprenticeship Rate:** 7.02%  
**Construction Completed:** 100.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 6.90%

The work under this Contract includes demolition and miscellaneous site improvements; removal of existing sod lawn areas; earth work; water system; storm drainage; paving and surfacing; site improvements; soil preparation; electrical distribution system

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	106.00	21.00	19.81%	1	0.00	0.00%	0.00	0.00%
Electrician	203.00	105.00	51.72%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	478.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	1,008.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,795.50</b>	<b>126.00</b>	<b>7.02%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**South Treatment Plant Cogeneration Project**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: South Treatment Plant Cogeneration Project  
 Contract Number: C33104C  
 Prime Contractor: Harbor Pacific Contractors  
 Contract Award Amount: \$10,824,000  
 Date Bid: April 20, 2004  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 25.97%  
**Construction Completed:** 26.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 26.00%

The work under this Contract includes the installation of a new cogeneration building and related utilities; installation of an auger cast pile foundation; construction of a new pre-cast panel building; installation of power, instrumentation duct banks, water, gas, sewer and sanitary drainage piping, grading and paving; installation of two (County provided) gas turbine generators and SCADA system, two heat recovery system generators, one condensing steam turbine generator, heat exchangers, pumps, de-aeration equipment, water treatment equipment, two switch gears, fire protection system, HVAC, and all associated devices, equipment, wiring, piping, etc. for an operating co-generation system.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	1,817.00	554.50	30.52%	2	0.00	0.00%	291.00	52.48%
Cement Mason	194.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	2,165.00	793.50	36.65%	5	0.00	0.00%	0.00	0.00%
Equipment Operator	2,007.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	162.00	46.00	28.40%	1	0.00	0.00%	0.00	0.00%
Iron Worker	236.00	24.00	10.17%	1	0.00	0.00%	0.00	0.00%
Laborer	1,023.00	76.00	7.43%	1	0.00	0.00%	76.00	100.00%
Pile Driver Operator	537.50	100.50	18.70%	1	0.00	0.00%	0.00	0.00%
Pipefitter	1,081.00	340.00	31.45%	1	340.00	100.00%	0.00	0.00%
Plumber	1,340.00	819.00	61.12%	4	0.00	0.00%	0.00	0.00%
Teamster/Truckdriver	41.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>10,604.00</b>	<b>2,753.50</b>	<b>25.97%</b>	<b>16</b>	<b>340.00</b>	<b>12.35%</b>	<b>367.00</b>	<b>13.33%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Matthews Pump Station Upgrade**

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Matthews Pump Station Upgrade  
 Contract Number: C43061C  
 Prime Contractor: MKB Constructors  
 Contract Award Amount: \$6,938,870  
 Date Bid: August 3, 2004  
 Type of Construction: Heavy Civil Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 31.92%  
**Construction Completed:** 5.00%  
 \*\*\*Cumulative Apprenticeship Rate: 35.10%

The work under this contract includes modifying the pump stations existing mechanical system. The work also includes modifications to the pump station electrical system, installation of a replacement sytem; construction of a new structure to house portions of the new electrical system; demolition of and replacement of existing instrumentation and control system; new field equipment; miscellaneous structural upgrades; and landscaping.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	478.00	239.00	50.00%	1	0.00	0.00%	0.00	0.00%
Electrician	168.00	32.00	19.05%	1	0.00	0.00%	0.00	0.00%
Equipment Operator	203.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>849.00</b>	<b>271.00</b>	<b>31.92%</b>	<b>2</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
Issaquah Highlands Park and Ride

Department Name: Transportation  
 Division: Transit  
 Project Name: Issaquah Highlands Park- And-Ride  
 Contract Number: C43001C  
 Prime Contractor: Bayley Construction, A General Partnership  
 Contract Award Amount: \$16,727,075  
 Date Bid: August 10, 2004  
 Type of Construction: Buildings - New Construction

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 7.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this Contract includes constructing a fully functional five-story, commuter parking garage with site and frontage improvements. The scope of work includes, but is not limited to: site grading; excavation; installation of pile foundation; retaining walls; installation of site utilities; storm drainage collection and conveyance system; construction of a reinforced concrete parking structure; roadway paving with Portland cement concrete and asphalt concrete; structural steel placement; electrical systems; surveillance camera and panic alarm system; utility services; irrigation systems; Portland cement sidewalks, curb and gutter; landscaping; lighting; striping; roadway channelization; and work associated with the project's art work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Electrician	169.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	758.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal) Worker	15.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	267.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	35.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Surveyor	131.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,377.50</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**Ryerson Base Bus Parking Extension**

Department Name: Transportation  
 Division: Transit  
 Project Name: Ryerson Base Bus Parking Extension  
 Contract Number: C43018C  
 Prime Contractor: Gary Merlino Construction Company, Inc.  
 Contract Award Amount: \$1,272,849  
 Date Bid: July 20, 2004  
 Type of Construction: Paving and Utilities' Installation

**Apprenticeship Requirement:** 8.00%  
**2004 Apprenticeship Rate:** 24.71%  
**Construction Completed:** 81.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 24.70%

The work under this Contract includes, but is not limited to, demolition, removal, haul and disposal of approximately 9200 sq yards of 6 to 11 inch asphalt, regrading and install a new storm drainage system and replacing the same area with 10 inch concrete pavement including associated lighting, fencing, and electrical work.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Cement Mason	1,096.50	298.00	27.18%	3	0.00	0.00%	107.00	35.91%
Equipment Operator	778.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Flagger	9.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	2,344.00	888.00	37.88%	4	0.00	0.00%	511.00	57.55%
Teamster/Truckdriver	572.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,800.00</b>	<b>1,186.00</b>	<b>24.71%</b>	<b>7</b>	<b>0.00</b>	<b>0.00%</b>	<b>618.00</b>	<b>52.11%</b>

**Notes:**

\*Hours for Women include minority females

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\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date



APPENDIX B: Projects  
Jail Chiller Plant Replacement

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Jail Chiller Plant Replacement  
 Contract Number: C43089C  
 Prime Contractor: McKinstry Co.  
 Contract Award Amount: \$1,258,000  
 Date Bid: July 8, 2004  
 Type of Construction: Buildings -Alterations

**Apprenticeship Requirement:** 15.00%  
**2004 Apprenticeship Rate:** 18.80%  
**Construction Completed:** 92.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 18.80%

The work under this contract includes removal of all old chiller equipment and piping, replacing same with new equipment and piping, per plans, in chiller room and adjacent roof area, on the 12th floor (rooftop) of the King County Jail. The Physical removal of old equipment/materials and setting of new replacement equipment and materials will be accomplished using crane erection equipment during one prescheduled weekend.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	160.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	108.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	16.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	105.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	2,402.50	526.00	21.89%	3	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>2,791.50</b>	<b>526.00</b>	<b>18.84%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

**APPENDIX B: Projects  
Blackriver HVAC Upgrade**

Department Name: Executive Services  
 Division: Facilities Management  
 Project Name: Blackriver HVAC Upgrade  
 Contract Number: C43117C  
 Prime Contractor: W.A. Botting Co.  
 Contract Award Amount: \$424,799  
 Date Bid: September 21, 2004  
 Type of Construction: Buildings - Alterations

**Apprenticeship Requirement:** 5.00%  
**2004 Apprenticeship Rate:** 0.00%  
**Construction Completed:** 1.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.00%

The work under this contract includes the replacement of two 80-plus ton rooftop air conditioning units with modifications to the existing DDC control system. Work will also include the balancing/replacement of select interior HVAC components to improve occupant comfort issues within the building's occupied spaces. The location of the work is the Department of Development and Environmental Services.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
HVAC (Sheet Metal)	19.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>19.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

## APPENDIX B: Projects Large Generator Replacements

Department Name: Natural Resources & Parks  
 Division: Wastewater Treatment  
 Project Name: Large Generator Replacements  
 Contract Number: C23066C  
 Prime Contractor: Intermountain Electric, Inc.  
 Contract Award Amount: \$1,117,800  
 Date Bid: May 29, 2003  
 Type of Construction: Heavy Civil

**Apprenticeship Requirement:** 8.00%  
**2004 Apprenticeship Rate:** 0.67%  
**Construction Completed:** 96.00%  
**\*\*\*Cumulative Apprenticeship Rate:** 0.70%

The work under this contract includes but is not limited to the removal and replacement of obsolete generators at 4 West Section pump stations. The contract will remove the existing generator systems, including automatic transfer switches, primary power feeds to the station and control dampers on inlets and outlets to the facilities.

### Apprentice Utilization by Trade/Craft

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Carpenter	456.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Electrician	1,978.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	38.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
HVAC (Sheet Metal)	73.05	29.00	39.70%	3	0.00	0.00%	0.00	0.00%
Insulation Worker	36.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Laborer	473.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pile Driver Operator	54.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Pipefitter	874.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Plumber	352.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>4,335.55</b>	<b>29.00</b>	<b>0.67%</b>	<b>3</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00%</b>

**Notes:**

\*Hours for Women include minority females

\*\*% of Women and Minorities participation is percent of total apprentice hours

\*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date

APPENDIX B: Projects  
**KCIA Runway 31L Safety Area**

Department Name: Natural Resources & Parks  
 Division: King County International Airport  
 Project Name: KCIA Runway 31L Safety Area  
 Contract Number: C43049C  
 Prime Contractor: Gary Merlino Construction  
 Contract Award Amount: \$5,917,008  
 Date Bid: April 27, 2004  
 Type of Construction: Highways and Bridges

**Apprenticeship Requirement:** 12.00%  
**2004 Apprenticeship Rate:** 21.98%  
**Construction Completed:** 27.00%  
 \*\*\*Cumulative Apprenticeship Rate: 21.00%

The work under the contract is for Runway 13R-31L Safety Area work at the King County International Airport (KCIA) including constructing approximately 880 feet of special use pavement at the north end of Runway 13R-31L and associated Taxiway Z. The project will also realign Taxiway A-11 and construct new Taxiway B-9. Electrical improvements include new edge for the special use pavement, Taxiway Z, Taxiway A-11, and Taxiway B-9, new threshold lights for the special use pavement, relocation of existing threshold lights for the threshold relocation at Runway 31L end, informational signage, distance-to-go signs, and the associated wiring.

**Apprentice Utilization by Trade/Craft**

Trade	Total Labor Hours	Total Apprentice Hours	% of Total Hours	Total # Apprentices	**Apprentice Hours			
					*Women	%	Minorities	%
Bricklayer	63.00	8.00	12.70%	1	0.00	0.00%	0.00	0.00%
Carpenter	257.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Cement Mason	19.00	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Equipment Operator	393.00	100.00	25.45%	0	0.00	0.00%	0.00	0.00%
Laborer	886.00	292.00	32.96%	4	0.00	0.00%	92.50	31.68%
Teamster/Truck Driver	184.10	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
Traffic Control Striper	17.50	0.00	0.00%	0	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>1,819.60</b>	<b>400.00</b>	<b>21.98%</b>	<b>5</b>	<b>0.00</b>	<b>0.00%</b>	<b>92.50</b>	<b>23.13%</b>

**Notes:**

- \*Hours for Women include minority females
- \*\*% of Women and Minorities participation is percent of total apprentice hours
- \*\*\* Cumulative Apprenticeship Rate is the overall percent of apprentice utilization from the contract start date