

*CITY OF KEIZER MISSION STATEMENT*  
*KEEP CITY GOVERNMENT COSTS AND SERVICES TO A MINIMUM BY*  
*PROVIDING CITY SERVICES TO THE COMMUNITY IN A COORDINATED,*  
*EFFICIENT AND LEAST COST FASHION*

**A G E N D A**  
**KEIZER CITY COUNCIL**  
**SPECIAL WORK SESSION**

Monday, June 12, 1995

5:30 p.m.

Robert L. Simon Council Chambers  
Keizer City Hall, Keizer, Oregon 97303

1. CALL TO ORDER
2. ROLL CALL
3. DISCUSSION
  - a. 1995-96 Budget Finalization
  - b. Street Resurfacing Program
4. OTHER BUSINESS

This time is provided to allow the City Council members the opportunity to bring matters before the Council which are not on tonight's agenda.

5. WRITTEN COMMUNICATIONS

To inform the City Council of significant written communications or petitions.

6. ADJOURN

*Upon request, auxiliary aids and/or special services for those with disabilities will be provided. To request services, please contact us at 390-3700 or through Oregon Relay 1-800-735-2900 at least two working days (48 hours) in advance.*



City of Keizer

*The Council  
Workshop  
6-12-95  
make file*

MEMORANDUM

**DATE:** June 12, 1995  
**TO:** Mayor Koho and Council Members  
**FROM:** Doty Tryk, City Manager *Doty*  
**SUBJECT:** Budget Modifications

The purpose of this workshop is to give you a status report on the FY'95 Budget, this year's revenue and expenditure projections and recommended modifications to the FY'96 budget.

**FY'95 Budget Status**

**General Fund:**

General Fund expenditures are projected to be 98.25% of budget with two activities over budget. That is excellent performance. If you recall, last July the Council approved a pay increase of 3% with a 2% deferred compensation match for which we did not transfer contingency. The appropriations for these two activities can be corrected either by a transfer or a supplemental budget.

1. Community Development was awarded a planning grant that was not budgeted and have expended contractual services from the anticipated grant funds. \$18,000 is now spent and billable. A supplemental budget has been advertised to appropriate this.
2. Police is expected to be \$33,000 over budget which is a 1.68% variance. The largest expenditure is unbudgeted legal fees. \$28,000 from Municipal Court Materials & Services (unspent because of less than expected court fines) and \$6,000 from Contingency can be transferred to correct the appropriations.

Utility Fund:

The \$100,000 loan approved by the Council can be appropriated by a supplemental budget.

Our auditor states that the best way to move the cash dedicated to assessment bonds from the Utility Fund to the Assessment Fund is through a transfer. The total amount to be transferred is \$133,000. The supplemental budget with a transfer from Materials & Services to a Transfers line item will give us the authority to make the transfer.

Street Fund:

There is also dedicated assessment cash in the Street Fund that must be transferred. A transfer resolution to approve moving \$ 68,500 from Capital Outlay to Transfers will accomplish this.

I have advertised the Supplemental Budget recommendations and will have the transfer resolution for your June 19 meeting.

### **Cash Status of FY'95 Budget**

As I said, General Fund Expenditures are projected to be 98.25% of Budget, or \$46,000 under budget. Revenues are projected to be 95.82% of budget, or \$114,000 under budget. The ending fund balance was budget to be \$60,000 and it will probably be closer to zero. The largest variances to our revenue projections were in the beginning fund balance which is \$52,000 less than the \$100,000 budgeted; Planning fees which are \$13,000 under expectations reflecting the beginning of a building slow down; and Fines which are down \$26,000 due to Community Policing.

All revenues, expenditures and contingencies were budgeted so closely that there is no cushion for even such a small deviation from the plan. As recommended by our auditors, the Council should consider addressing a policy concerning reserves.

### **Modifications to FY'96 Budget**

The problem is that next year's budget was built as tightly as this year. \$100,000 was budgeted as a beginning fund balance in the General Fund. To balance next year's budget we must generate more cash and/or defer expenses. To do this, I propose the following:

1. Do not make the \$30,000 transfer from the General to City Hall Facilities in the FY'95 Budget. That will bring the ending fund balance to \$30,000.

Our Revenue Sharing collections in this fiscal year will be \$12,000 higher than anticipated. Next year's budgeted amount is probably also low by about \$18,000. These together will give us an additional \$30,000 that can be transferred to City Hall Facilities. I suggest that I rework the Revenue Sharing Budget for FY'96 to reflect that transfer, and that, along with the \$30,000 budgeted in FY'96 General Fund will keep the remodel on schedule.

2. Recognize additional income in the 911 Fund of \$10,262 and budget to spend it on allowable emergency calling costs reducing the amount which was spent from the General Fund. This brings the Beginning Fund Balance to \$40,000.
3. I would also recommend changing the 911 Fund Budget for FY'96 to budget the Fund Balance as a Contingency. We will be studying the best way to provide emergency dispatch next year. Budgeting the funds as contingency gives the Council some discretion over them. An unappropriated ending fund balance cannot be changed in the year it is planned whereas a contingency can be transferred with Council action.
4. Phase approved hiring of additional Police and Clerical staff. We have committed to four new officers in July leaving four additional positions unfilled. Keeping those positions vacant for six months will save \$80,000. The Chief believes that training all eight officers at one time is beyond the capability of the department, so he agrees that phasing will be necessary. We had originally talked about hiring the second group in October. Depending on our financial position that could still be a possibility.
5. Review the City Health Insurance package. We have information that the employee benefits service of the League of Oregon Cities may be able to provide equivalent benefits at a 10% or larger savings. This could result in a \$25,000 savings.
6. One unknown is the level of citation revenue. The budget may be conservative. We will be watching the activity over the summer. If the revenue picture changes we can accelerate hiring some of the budgeted staff.

I would recommend that we make the budget changes to accomplish numbers 1, 2 and 3; It takes no action from the Council to reduce expenditures. You can allow me to manage the phasing in of new staff and review our status in October to determine if we can accelerate the hiring by some number of months and still remain solvent.

No action is required tonight. I will bring these changes, or any others you want to make, back to the Council at your June 19 meeting. You actually have until June 30 to make a final decision.

**CITY OF KEIZER  
COMMITTEE APPROVED BUDGET FY 95-96**

**GENERAL FUND RESOURCES**

| Actual<br>1992-1993               | Actual<br>93-94 | 94-95<br>Adopted | 94-95<br>Projected |                                       | Manager<br>Recommended | Committee<br>Approved | Council<br>Modified |
|-----------------------------------|-----------------|------------------|--------------------|---------------------------------------|------------------------|-----------------------|---------------------|
| <b>BEGINNING FUND BALANCE</b>     |                 |                  |                    |                                       |                        |                       |                     |
| \$299,094                         | \$158,375       | \$100,000        | \$49,297           | Working Capital                       | \$100,000              | \$100,000             | \$0                 |
| \$58,840                          | \$63,461        | \$80,000         | \$75,000           | Prior Year Taxes Due                  | \$65,000               | \$65,000              | \$65,000            |
| \$9,017                           | \$2,892         | \$7,000          | \$2,182            | Interest                              | \$4,000                | \$4,000               | \$4,000             |
| \$366,951                         | \$224,728       | \$187,000        | \$128,479          | <b>Total</b>                          | <b>\$169,000</b>       | <b>\$169,000</b>      | <b>\$69,000</b>     |
| <b>LICENSES &amp; FEES</b>        |                 |                  |                    |                                       |                        |                       |                     |
| \$104,211                         | \$113,736       | \$122,169        | \$119,188          | Salem Electric                        | \$123,608              | \$123,608             | \$123,608           |
| \$161,297                         | \$177,591       | \$197,500        | \$189,839          | PGE                                   | \$193,929              | \$193,929             | \$193,929           |
| \$74,024                          | \$82,309        | \$82,500         | \$90,065           | NWNG                                  | \$89,881               | \$89,881              | \$89,881            |
| \$66,506                          | \$66,701        | \$84,375         | \$73,859           | US West                               | \$72,837               | \$72,837              | \$72,837            |
| \$123,410                         | \$127,039       | \$137,500        | \$131,092          | Viacom                                | \$137,393              | \$137,393             | \$137,393           |
| \$36,217                          | \$37,363        | \$39,200         | \$38,365           | Lorens Sanitation                     | \$40,025               | \$40,025              | \$40,025            |
| \$16,434                          | \$18,306        | \$17,710         | \$19,856           | Valley Garbage                        | \$19,990               | \$19,990              | \$19,990            |
| \$5,350                           | \$1,730         | \$6,500          | \$8,854            | Licenses/Permits                      | \$4,000                | \$4,000               | \$4,000             |
| \$587,449                         | \$624,775       | \$687,454        | \$670,916          | <b>Total</b>                          | <b>\$681,663</b>       | <b>\$681,663</b>      | <b>\$681,663</b>    |
| <b>INTERGOVERNMENTAL</b>          |                 |                  |                    |                                       |                        |                       |                     |
| \$170,442                         | \$175,323       | \$200,750        | \$183,358          | Liquor Tax                            | \$202,958              | \$202,958             | \$202,958           |
| \$70,087                          | \$70,102        | \$72,750         | \$72,160           | Cigarette Tax                         | \$64,957               | \$64,957              | \$64,957            |
| \$240,529                         | \$245,425       | \$273,500        | \$255,518          | <b>Total</b>                          | <b>\$267,915</b>       | <b>\$267,915</b>      | <b>\$267,915</b>    |
| <b>MISCELLANEOUS</b>              |                 |                  |                    |                                       |                        |                       |                     |
| \$20                              | \$75            | \$400            | \$0                | Noxious Weed Control                  | \$100                  | \$100                 | \$100               |
| \$15,340                          | \$27,204        | \$17,500         | \$14,668           | Misc. Revenue                         | \$20,000               | \$20,000              | \$20,000            |
| \$15,360                          | \$27,279        | \$17,900         | \$14,668           | <b>Total</b>                          | <b>\$20,100</b>        | <b>\$20,100</b>       | <b>\$20,100</b>     |
| <b>TRANSFERS</b>                  |                 |                  |                    |                                       |                        |                       |                     |
| \$34,430                          | \$0             | \$0              | \$0                | From Revenue Sharing                  | \$0                    | \$0                   | \$0                 |
| \$9,148                           | \$9,148         | \$9,148          | \$0                | From Urban Renewal                    | \$0                    | \$0                   | \$0                 |
| \$43,578                          | \$9,148         | \$9,148          | \$0                | <b>Total</b>                          | <b>\$0</b>             | <b>\$0</b>            | <b>\$0</b>          |
| \$1,253,867                       | \$1,131,355     | \$1,175,002      | \$1,067,581        | <b>TOTAL GENERAL SUPPORT RESOURCE</b> | <b>\$1,138,678</b>     | <b>\$1,138,678</b>    | <b>\$1,038,678</b>  |
| \$275,409                         | \$353,855       | \$318,750        | \$290,630          | <b>PROGRAM GENERATED RESOURCES</b>    | <b>\$598,750</b>       | <b>\$688,750</b>      | <b>\$723,750</b>    |
| \$1,529,276                       | \$1,485,010     | \$1,493,752      | \$1,358,211        | <b>TOTAL RESOURCES EXCEPT TAXES</b>   | <b>\$1,737,428</b>     | <b>\$1,837,428</b>    | <b>\$1,762,428</b>  |
| <b>TAXES NECESSARY TO BALANCE</b> |                 |                  |                    |                                       |                        |                       |                     |
| \$1,023,240                       | \$1,103,145     | \$1,245,302      | \$1,257,116        | Tax Base and Operating Levy           | \$1,490,743            | \$1,484,843           | \$1,535,607         |
| \$0                               | \$0             | \$0              | \$0                | Special Police Levy                   | \$0                    | \$138,208             | \$0                 |
| \$1,023,240                       | \$1,103,145     | \$1,245,302      | \$1,257,116        | <b>TOTAL TAXES NEEDED</b>             | <b>\$1,490,743</b>     | <b>\$1,623,051</b>    | <b>\$1,535,607</b>  |
| \$2,552,516                       | \$2,588,155     | \$2,739,054      | \$2,615,327        | <b>TOTAL GENERAL SUPPORT RESOURCE</b> | <b>\$3,228,171</b>     | <b>\$3,460,479</b>    | <b>\$3,398,036</b>  |

# GENERAL FUND

|                                     |                  | YTD              | YTD              | DEPT             | DEPT PROJ<br>VARIANCE W/ |                |
|-------------------------------------|------------------|------------------|------------------|------------------|--------------------------|----------------|
|                                     | BUDGET           | ACTUALS          | ANNUALIZED       | PROJECTIONS      | BUDGET                   | % BUDGET       |
| <b>BEGINNING FUND BALANCE</b>       | <b>100,000</b>   | <b>48,297</b>    | <b>48,297</b>    | <b>48,297</b>    | <b>(51,703)</b>          | <b>48.30%</b>  |
| <b>TAXES</b>                        |                  |                  |                  |                  |                          |                |
| CURRENT TAXES                       | 1,245,302        | 1,257,116        | 1,257,116        | 1,257,116        | 11,814                   | 100.95%        |
| PRIOR TAXES                         | 80,000           | 65,438           | 75,000           | 75,000           | (5,000)                  | 93.75%         |
| LIQUOR                              | 200,750          | 152,798          | 183,358          | 183,358          | (17,392)                 | 91.34%         |
| CIGARETTE                           | 72,750           | 65,677           | 71,648           | 71,648           | (1,102)                  | 98.49%         |
| <b>TOTAL TAXES</b>                  | <b>1,598,802</b> | <b>1,541,029</b> | <b>1,587,122</b> | <b>1,587,122</b> | <b>(11,680)</b>          | <b>99.27%</b>  |
| <b>FRANCHISE FEES</b>               |                  |                  |                  |                  |                          |                |
| SALEM ELECTRIC                      | 122,169          | 119,686          | 119,686          | 119,686          | (2,483)                  | 97.97%         |
| PGE                                 | 197,500          | 189,839          | 189,839          | 189,839          | (7,661)                  | 96.12%         |
| NRTHWST GAS                         | 82,500           | 67,549           | 90,065           | 90,065           | 7,565                    | 109.17%        |
| US WEST                             | 84,375           | 55,394           | 73,859           | 73,859           | (10,516)                 | 87.54%         |
| CABLE                               | 137,500          | 109,243          | 131,092          | 131,092          | (6,408)                  | 95.34%         |
| LORENS                              | 39,200           | 28,774           | 38,365           | 38,365           | (835)                    | 97.87%         |
| VALLEY GARBAGE                      | 17,710           | 14,742           | 19,656           | 19,656           | 1,946                    | 110.99%        |
| <b>TOTAL FRANCHISE FEES</b>         | <b>680,954</b>   | <b>585,227</b>   | <b>662,562</b>   | <b>662,562</b>   | <b>(18,392)</b>          | <b>97.30%</b>  |
| <b>LICENSES/PERMITS/FEES/GRANTS</b> |                  |                  |                  |                  |                          |                |
| LICENSES & PERMITS                  | 6,500            | 7,513            | 8,196            | 8,196            | 1,696                    | 126.09%        |
| PLANNING FEES                       | 30,000           | 15,857           | 17,299           | 17,299           | (12,701)                 | 57.66%         |
| BUILDING PERMITS                    | 30,000           | 17,740           | 21,288           | 21,288           | (8,712)                  | 70.96%         |
| BLDNG ADM NETWORK                   | -                | 5,655            | 7,540            | 7,540            | 7,540                    | 0.00%          |
| LCDC GRANT                          | -                | -                | -                | 18,000           | 18,000                   | 0.00%          |
| BICYCLE GRANT                       | -                | -                | -                | 1,700            | 1,700                    | 0.00%          |
| <b>TOTAL LICENSES/PERMITS/FEES</b>  | <b>66,500</b>    | <b>46,765</b>    | <b>54,323</b>    | <b>74,023</b>    | <b>7,523</b>             | <b>111.31%</b> |
| <b>FINES/FORFEITURES</b>            |                  |                  |                  |                  |                          |                |
| MUNICIPAL COURT                     | 165,000          | 127,131          | 138,688          | 138,688          | (26,312)                 | 84.05%         |
| CIVIL FORFEITURES                   | 5,000            | -                | -                | -                | (5,000)                  | 0.00%          |
| <b>TOTAL FINES/FORFEITURES</b>      | <b>170,000</b>   | <b>127,131</b>   | <b>138,688</b>   | <b>138,688</b>   | <b>(31,312)</b>          | <b>81.58%</b>  |
| <b>MISCELLANEOUS</b>                |                  |                  |                  |                  |                          |                |
| SPECIAL DUTY OFFICERS               | 2,000            | 2,062            | 2,062            | 2,062            | 62                       | 103.10%        |
| IMPOUND FEES                        | -                | 3,450            | 5,175            | 5,175            | 5,175                    | 0.00%          |
| CRIME PREV                          | 750              | 200              | 218              | 218              | (532)                    | 29.07%         |
| NOXIOUS WEEDS                       | 400              | -                | -                | -                | (400)                    | 0.00%          |
| INTEREST                            | 7,000            | 1,818            | 2,182            | 2,182            | (4,818)                  | 31.17%         |
| RENTAL PROPERTY                     | 20,000           | 7,040            | 7,680            | 7,680            | (12,320)                 | 38.40%         |
| CITY HALL RENTAL                    | -                | 4,180            | 4,560            | 4,560            | 4,560                    | 0.00%          |
| TRAFFIC SAFETY DONATION             | -                | 75               | 75               | 75               | 75                       | 0.00%          |
| PARK RESERVATION                    | -                | 360              | 360              | 360              | 360                      | 0.00%          |
| MISCELLANEOUS                       | 17,500           | 15,030           | 16,396           | 16,396           | (1,104)                  | 93.69%         |
| <b>TOTAL MISCELLANEOUS</b>          | <b>47,650</b>    | <b>34,215</b>    | <b>38,708</b>    | <b>38,708</b>    | <b>(8,942)</b>           | <b>81.23%</b>  |
| <b>TRANSFERS</b>                    |                  |                  |                  |                  |                          |                |
| 911 FUND                            | 66,000           | 66,000           | 66,000           | 66,000           | -                        | 100.00%        |
| URBAN RENEWAL                       | 9,148            | 9,148            | 9,148            | 9,148            | -                        | 100.00%        |
| <b>TOTAL TRANSFERS</b>              | <b>75,148</b>    | <b>75,148</b>    | <b>75,148</b>    | <b>75,148</b>    | <b>-</b>                 | <b>100.00%</b> |
| <b>TOTAL REVENUES AND TRANSFERS</b> | <b>2,739,054</b> | <b>2,457,812</b> | <b>2,604,848</b> | <b>2,624,548</b> | <b>(114,506)</b>         | <b>95.82%</b>  |

# GENERAL FUND

|                            |                | YTD            | YTD            | DEPT           | DEPT PROJ             |               |
|----------------------------|----------------|----------------|----------------|----------------|-----------------------|---------------|
|                            | BUDGET         | ACTUALS        | ANNUALIZED     | PROJECTIONS    | VARIANCE W/<br>BUDGET | % BUDGET      |
| <b>EXPENDITURES</b>        |                |                |                |                |                       |               |
| <b>ADMINISTRATION</b>      |                |                |                |                |                       |               |
| CITY MANAGER               | 37,244         | 33,765         | 37,357         | 37,357         | (113)                 | 100.30%       |
| CLERICAL                   | 27,785         | 27,663         | 30,606         | 30,606         | (2,821)               | 110.15%       |
| ADMIN ASSISTANT            | 19,561         | 16,484         | 18,238         | 18,238         | 1,323                 | 93.24%        |
| FINANCE OFFICER            | 17,337         | 16,025         | 17,730         | 17,730         | (393)                 | 102.27%       |
| OVERTIME                   | 500            | 193            | 214            | 214            | 286                   | 42.80%        |
| MEDICARE                   | 2,236          | 3,822          | 4,229          | 4,229          | (1,993)               | 189.13%       |
| RETIREMENT                 | 10,918         | 12,748         | 14,104         | 14,104         | (3,186)               | 129.18%       |
| HEALTH INSURANCE           | 12,217         | 14,374         | 14,374         | 14,374         | (2,157)               | 117.66%       |
| LIFE INSURANCE             | 146            | 166            | 166            | 166            | (20)                  | 113.70%       |
| DISABILITY INSURANCE       | 1,034          | 1,218          | 1,218          | 1,218          | (184)                 | 117.79%       |
| UNEMPLOYMENT               | -              | 5,953          | 5,953          | 5,953          | (5,953)               | 0.00%         |
| WORKERS COMP               | 629            | 408            | 445            | 445            | 184                   | 70.76%        |
| PAYROLL RELATED EXPENSE    | 129,607        | 132,819        | 144,634        | 144,634        | (15,027)              | 111.59%       |
| OFFICE MAT'L & SUPPLIES    | 10,000         | 9,919          | 10,000         | 10,000         | -                     | 100.00%       |
| PRINTING                   | 700            | 1,836          | 3,003          | 3,003          | (2,303)               | 429.03%       |
| POSTAGE                    | 5,500          | 5,511          | 5,511          | 5,511          | (11)                  | 100.20%       |
| DUES & SUBS                | 2,000          | 2,219          | 2,421          | 2,421          | (421)                 | 121.06%       |
| DUES/LEAGUE OF OR. CITIE   | 4,560          | 4,563          | 4,563          | 4,563          | (3)                   | 100.07%       |
| DUES/MID-WILL. VALLEY CO   | 4,275          | 4,408          | 4,408          | 4,408          | (133)                 | 103.11%       |
| DUES/ECONOMIC DEV. DIST.   | 627            | 622            | 622            | 622            | 5                     | 99.20%        |
| TRAINING                   | 6,000          | 8,795          | 9,595          | 9,595          | (3,595)               | 159.91%       |
| ADVERTISING                | 8,000          | 6,350          | 7,620          | 7,620          | 380                   | 95.25%        |
| ELECTION EXPENSE           | 0              | 122            | 122            | 122            | (122)                 | 0.00%         |
| LEGAL SERVICES             | 50,000         | 21,717         | 26,060         | 26,060         | 23,940                | 52.12%        |
| CONTRACTUAL SERVICES       | 15,000         | 12,233         | 15,000         | 15,000         | -                     | 100.00%       |
| AUDIT                      | 5,000          | 7,854          | 7,854          | 7,854          | (2,854)               | 157.08%       |
| JANITORIAL                 | 3,600          | 5,008          | 6,010          | 6,010          | (2,410)               | 166.94%       |
| UTILITIES                  | 3,400          | 3,633          | 4,360          | 4,360          | (960)                 | 128.22%       |
| TELEPHONE                  | 5,000          | 5,771          | 6,925          | 6,925          | (1,925)               | 138.50%       |
| INSURANCE                  | 7,000          | 3,510          | 3,510          | 3,510          | 3,490                 | 50.14%        |
| EQUIPMENT MAINTENANCE      | 4,000          | 1,485          | 1,782          | 1,782          | 2,218                 | 44.55%        |
| NOXIOUS WEED CONTROL       | 500            | 0              | -              | -              | 500                   | 0.00%         |
| RENTAL PROPERTY EXPENSE    | 6,000          | 1,753          | 2,103          | 2,103          | 3,897                 | 35.05%        |
| MISCELLANEOUS EXPENSE      | 4,000          | 4,683          | 5,109          | 5,109          | (1,109)               | 127.72%       |
| MATERIALS/SUPPLIES/SERVICE | 145,162        | 111,992        | 126,578        | 126,578        | 18,584                | 87.20%        |
| <b>TOTAL ADMIN</b>         | <b>274,769</b> | <b>244,811</b> | <b>271,212</b> | <b>271,212</b> | <b>3,557</b>          | <b>98.71%</b> |

# GENERAL FUND

|                            | <u>BUDGET</u>  | <u>YTD<br/>ACTUALS</u> | <u>YTD<br/>ANNUALIZED</u> | <u>DEPT<br/>PROJECTIONS</u> | <u>DEPT PROJ<br/>VARIANCE W/<br/>BUDGET</u> | <u>% BUDGET</u> |
|----------------------------|----------------|------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------|
| <b>PARKS</b>               |                |                        |                           |                             |                                             |                 |
| PARKS DIRECTOR             | 19,796         | 18,359                 | 20,312                    | 20,312                      | (516)                                       | 102.61%         |
| SEASONAL HELP              | 8,000          | 1,684                  | 1,863                     | 1,863                       | 6,137                                       | 23.29%          |
| OVERTIME                   | 500            | 233                    | 258                       | 258                         | 242                                         | 51.60%          |
| MEDICARE                   | 574            | 315                    | 349                       | 349                         | 225                                         | 60.80%          |
| RETIREMENT                 | 2,447          | 2,745                  | 3,037                     | 3,037                       | (590)                                       | 124.11%         |
| HEALTH INSURANCE           | 2,737          | 2,804                  | 2,804                     | 2,804                       | (67)                                        | 102.45%         |
| LIFE INSURANCE             | 37             | 38                     | 38                        | 38                          | (1)                                         | 102.70%         |
| DISABILITY INSURANCE       | 327            | 314                    | 314                       | 314                         | 13                                          | 96.02%          |
| WORKERS COMPENSATION       | 716            | 507                    | 553                       | 553                         | 163                                         | 77.25%          |
| PAYROLL RELATED EXPENSE    | 35,134         | 26,999                 | 29,528                    | 29,528                      | 5,606                                       | 84.04%          |
| OFFICE MAT'L & SUPPLIES    | 700            | 771                    | 925                       | 800                         | (100)                                       | 114.29%         |
| PARKS MAT'L & SUPPLIES     | 12,000         | 6,446                  | 7,735                     | 9,000                       | 3,000                                       | 75.00%          |
| DUES & SUBS                | 200            | 180                    | 216                       | 180                         | 20                                          | 90.00%          |
| TRAINING                   | 800            | 529                    | 635                       | 600                         | 200                                         | 75.00%          |
| LEGAL SERVICES             | 1,200          | 2,964                  | 3,557                     | 3,557                       | (2,357)                                     | 296.42%         |
| CONTRACTUAL SERVICES       | 35,000         | 33,327                 | 38,088                    | 38,000                      | (3,000)                                     | 108.57%         |
| PROFESSIONAL SERVICES      | 3,000          | 2,333                  | 2,800                     | 2,800                       | 200                                         | 93.33%          |
| VEHICLE LEASE              | 0              | 271                    | 271                       | 271                         | (271)                                       | 0.00%           |
| VEHICLE MAINTENANCE        | 0              | 56                     | 56                        | 56                          | (56)                                        | 0.00%           |
| MATERIALS/SUPPLIES/SERVICE | 52,900         | 46,877                 | 54,282                    | 55,264                      | (2,364)                                     | 104.47%         |
| <b>TOTAL PARKS</b>         | <b>88,034</b>  | <b>73,876</b>          | <b>83,810</b>             | <b>84,792</b>               | <b>3,242</b>                                | <b>96.32%</b>   |
| <b>PLANNING</b>            |                |                        |                           |                             |                                             |                 |
| COMMUNITY DEV.DIRECTOR     | 9,006          | 8,847                  | 9,788                     | 9,788                       | (782)                                       | 108.68%         |
| ASSOCIATE PLANNER          | 35,652         | 24,684                 | 27,310                    | 27,310                      | 8,342                                       | 76.60%          |
| OVERTIME                   | 900            | 960                    | 1,062                     | 1,062                       | (162)                                       | 118.00%         |
| MEDICARE                   | 1,295          | 1,054                  | 1,166                     | 1,166                       | 129                                         | 90.04%          |
| RETIREMENT                 | 5,002          | 5,289                  | 5,852                     | 5,852                       | (850)                                       | 116.99%         |
| HEALTH INSURANCE           | 6,591          | 7,885                  | 7,885                     | 7,885                       | (1,294)                                     | 119.63%         |
| LIFE INSURANCE             | 85             | 69                     | 69                        | 69                          | 16                                          | 81.18%          |
| DISABILITY INSURANCE       | 734            | 542                    | 542                       | 542                         | 192                                         | 73.84%          |
| WORKERS COMPENSATION       | 334            | 222                    | 242                       | 242                         | 92                                          | 72.51%          |
| PAYROLL RELATED EXPENSE    | 59,599         | 49,552                 | 53,916                    | 53,916                      | 5,683                                       | 90.46%          |
| OFFICE MAT'L & SUPPLIES    | 2,750          | 2,129                  | 2,555                     | 2,555                       | 195                                         | 92.90%          |
| PRINTING                   | 2,000          | 2,747                  | 3,296                     | 3,296                       | (1,296)                                     | 164.82%         |
| DUES & SUBS                | 0              | 274                    | 329                       | 329                         | (329)                                       | 0.00%           |
| TRAINING                   | 2,250          | 1,299                  | 1,559                     | 1,559                       | 691                                         | 69.30%          |
| LEGAL SERVICES             | 20,000         | 14,925                 | 17,909                    | 17,909                      | 2,091                                       | 89.55%          |
| CONTRACTUAL SERVICES       | 5,000          | 22,425                 | 26,910                    | 26,600                      | (21,600)                                    | 532.00%         |
| HEARINGS OFFICER           | 5,400          | 3,150                  | 4,200                     | 4,200                       | 1,200                                       | 77.78%          |
| BUILDING ADMIN. NETWORK    | 10,000         | 2,363                  | 2,836                     | 2,836                       | 7,164                                       | 28.36%          |
| MATERIALS/SUPPLIES/SERVICE | 47,400         | 49,312                 | 59,595                    | 59,285                      | -11,885                                     | 125.07%         |
| <b>TOTAL PLANNING</b>      | <b>106,999</b> | <b>98,864</b>          | <b>113,511</b>            | <b>113,201</b>              | <b>-6,202</b>                               | <b>105.80%</b>  |



# GENERAL FUND

|                                 |                  | YTD              | YTD              | DEPT             | DEPT PROJ       |                |
|---------------------------------|------------------|------------------|------------------|------------------|-----------------|----------------|
|                                 | BUDGET           | ACTUALS          | ANNUALIZED       | PROJECTIONS      | VARIANCE W/     | % BUDGET       |
| <b>POLICE</b>                   |                  |                  |                  |                  |                 |                |
| ADMINISTRATIVE ASSISTANT        | 26,414           | 25,349           | 28,046           | 28,046           | (1,632)         | 106.18%        |
| CHIEF OF POLICE                 | 58,295           | 55,867           | 61,810           | 61,810           | (3,515)         | 106.03%        |
| LIEUTENANT                      | 46,776           | 53,022           | 58,663           | 58,663           | (11,887)        | 125.41%        |
| SERGEANT                        | 215,403          | 139,144          | 153,947          | 153,947          | 61,456          | 71.47%         |
| DETECTIVE                       | 72,884           | 66,869           | 73,983           | 73,983           | (1,099)         | 101.51%        |
| POLICE OFFICER                  | 395,195          | 376,661          | 416,731          | 416,731          | (21,536)        | 105.45%        |
| COMM. SERVICE OFFICER           | 49,720           | 41,608           | 46,034           | 46,034           | 3,686           | 92.59%         |
| POLICE SUPPORT SPECIALIS        | 76,045           | 70,969           | 78,519           | 78,519           | (2,474)         | 103.25%        |
| SCHOOL LIAISON OFFICER          | 68,250           | 61,179           | 67,687           | 67,687           | 563             | 99.18%         |
| RESERVE OFFICERS                | 3,500            | 635              | 703              | 703              | 2,797           | 20.09%         |
| HEPATITIS B TESTING(RESE        | -                | 480              | 480              | 480              | (480)           | 0.00%          |
| OVERTIME                        | 75,000           | 91,194           | 100,895          | 100,895          | (25,895)        | 134.53%        |
| MEDICARE                        | 18,344           | 18,802           | 20,802           | 20,802           | (2,458)         | 113.40%        |
| RETIREMENT                      | 172,616          | 166,003          | 183,663          | 183,663          | (11,047)        | 106.40%        |
| HEALTH INSURANCE                | 112,500          | 116,017          | 116,017          | 116,017          | (3,517)         | 103.13%        |
| LIFE INSURANCE                  | 2,177            | 2,039            | 2,039            | 2,039            | 138             | 93.66%         |
| DISABILITY INSURANCE            | 13,748           | 14,711           | 14,711           | 14,711           | (963)           | 107.00%        |
| UNEMPLOYMENT                    | 3,000            | 214              | 214              | 214              | 2,786           | 7.15%          |
| WORKERS COMPENSATION            | 47,836           | 31,150           | 33,982           | 33,982           | 13,854          | 71.04%         |
| <b>PAYROLL RELATED SERVICES</b> | <b>1,457,703</b> | <b>1,331,913</b> | <b>1,458,926</b> | <b>1,458,926</b> | <b>(1,223)</b>  | <b>100.08%</b> |
| OFFICE MAT'L & SUPPLIES         | 12,000           | 12,518           | 13,656           | 12,500           | (500)           | 104.17%        |
| CLOTHING                        | 14,500           | 15,733           | 17,163           | 17,400           | (2,900)         | 120.00%        |
| DARE PROGRAM SUPPLIES           | 2,500            | 3,400            | 3,709            | 3,950            | (1,450)         | 158.00%        |
| K-9 SUPPLIES                    | 1,500            | 535              | 535              | 540              | 960             | 36.00%         |
| PRINTING                        | 4,000            | 4,490            | 4,898            | 4,600            | (600)           | 115.00%        |
| POSTAGE                         | 2,500            | 3,097            | 3,097            | 3,100            | (600)           | 124.00%        |
| TRAINING                        | 18,500           | 23,785           | 25,947           | 24,000           | (5,500)         | 129.73%        |
| TUITION REIMBURSEMENT           | 3,000            | 1,617            | 1,941            | 1,700            | 1,300           | 56.67%         |
| TESTING                         | 2,500            | 5,319            | 5,803            | 6,500            | (4,000)         | 260.00%        |
| LEGAL SERVICES                  | 0                | 21,180           | 25,416           | 20,534           | (20,534)        | 0.00%          |
| CONTRACTUAL SERVICES            | 0                | 1,266            | 1,266            | 1,266            | (1,266)         | 0.00%          |
| JANITORIAL                      | 4,000            | 3,770            | 4,524            | 4,000            | -               | 100.00%        |
| UTILITIES                       | 9,000            | 8,342            | 10,011           | 9,000            | -               | 100.00%        |
| TELEPHONE                       | 10,500           | 18,898           | 22,678           | 19,500           | (9,000)         | 185.71%        |
| LIABILITY INSURANCE             | 26,000           | 31,070           | 31,070           | 31,100           | (5,100)         | 119.62%        |
| EQUIPMENT RENTAL                | 2,000            | 1,769            | 1,929            | 2,000            | -               | 100.00%        |
| GASOLINE                        | 25,000           | 19,545           | 22,337           | 21,100           | 3,900           | 84.40%         |
| VEHICLE MAINTENANCE             | 29,000           | 33,560           | 36,611           | 35,200           | (6,200)         | 121.38%        |
| EQUIPMENT MAINTENANCE           | 17,000           | 18,928           | 20,649           | 19,000           | (2,000)         | 111.76%        |
| OPERATING MATERIALS             | 17,500           | 18,999           | 20,726           | 19,000           | (1,500)         | 108.57%        |
| SALEM COMMUNICATION C           | 210,000          | 195,960          | 200,000          | 195,700          | 14,300          | 93.19%         |
| RAIN                            | 47,000           | 37,053           | 38,000           | 37,100           | 9,900           | 78.94%         |
| INVESTIGATIONS                  | 10,000           | 12,270           | 13,385           | 11,500           | (1,500)         | 115.00%        |
| CRIME PREVENTION                | 6,000            | 5,174            | 5,644            | 5,500            | 500             | 91.67%         |
| HEPATITIS B IMMUNIZATION        | 500              | 340              | 340              | 340              | 160             | 68.00%         |
| MISCELLANEOUS EXPENSE           | 2,500            | 3,138            | 3,766            | 3,000            | (500)           | 120.00%        |
| COMMUNITY POLICING              | 2,000            | 1,913            | 2,295            | 2,000            | -               | 100.00%        |
| MATERIALS/SUPPLIES/SERVICE      | 479,000          | 503,669          | 537,397          | 511,130          | (32,130)        | 106.71%        |
| UPGRADE RADIO SYSTEM            | 47,259           | 47,193           | 47,193           | 47,193           | 66              | 99.86%         |
| CAPITAL OUTLAY                  | 47,259           | 47,193           | 47,193           | 47,193           | 66              | 99.86%         |
| <b>TOTAL POLICE</b>             | <b>1,983,962</b> | <b>1,882,776</b> | <b>2,043,516</b> | <b>2,017,249</b> | <b>(33,287)</b> | <b>101.68%</b> |

# GENERAL FUND

|                                  | BUDGET           | YTD<br>ACTUALS   | YTD<br>ANNUALIZED | DEPT<br>PROJECTIONS | DEPT PROJ<br>VARIANCE W/<br>BUDGET | % BUDGET       |
|----------------------------------|------------------|------------------|-------------------|---------------------|------------------------------------|----------------|
| <b>MUNICIPAL COURT</b>           |                  |                  |                   |                     |                                    |                |
| CITY RECORDER                    | 25,467           | 23,019           | 25,958            | 25,958              | (491)                              | 101.93%        |
| COURT CLERK                      | 21,333           | 21,527           | 23,817            | 23,817              | (2,484)                            | 111.64%        |
| OVERTIME                         | 500              | -                | -                 | -                   | 500                                | 0.00%          |
| MEDICARE                         | 1,357            | 967              | 1,070             | 1,070               | 287                                | 78.85%         |
| RETIREMENT                       | 5,403            | 3,325            | 3,679             | 3,679               | 1,724                              | 68.09%         |
| HEALTH INSURANCE                 | 8,188            | 4,522            | 4,522             | 4,522               | 3,666                              | 55.23%         |
| LIFE INSURANCE                   | 59               | 61               | 61                | 61                  | (2)                                | 103.39%        |
| DISABILITY INSURANCE             | 422              | 329              | 329               | 329                 | 93                                 | 77.96%         |
| WORKERS COMPENSATION             | 433              | 199              | 217               | 217                 | 216                                | 50.14%         |
| PAYROLL RELATED SERVICES         | 63,162           | 53,949           | 59,653            | 59,653              | 3,509                              | 94.44%         |
| OFFICE MAT'L & SUPPLIES          | 1,820            | 1,586            | 1,730             | 1,730               | 90                                 | 95.05%         |
| DUES/CONF/TRAVEL                 | 1,900            | 2,552            | 2,784             | 2,784               | (884)                              | 146.53%        |
| ELECTION EXPENSE                 | 8,000            | 3,290            | 3,290             | 3,290               | 4,710                              | 41.13%         |
| LEGAL SERVICES                   | 5,000            | 1,629            | 1,955             | 1,955               | 3,045                              | 39.10%         |
| CONTRACTUAL SERVICES             | 18,180           | 16,712           | 20,054            | 18,912              | (732)                              | 104.03%        |
| EQUIPMENT MAINTENANCE            | 300              | 0                | -                 | 300                 | -                                  | 100.00%        |
| COUNTY ASSESSMENTS               | 12,000           | 4,472            | 4,879             | 4,879               | 7,121                              | 40.66%         |
| UNITARY ASSESSMENT               | 25,500           | 12,431           | 13,561            | 13,561              | 11,939                             | 53.18%         |
| MATERIALS/SUPPLIES/SERVICE       | 72,700           | 42,672           | 48,253            | 47,411              | 25,289                             | 65.21%         |
| <b>TOTAL</b>                     | <b>135,862</b>   | <b>96,621</b>    | <b>107,906</b>    | <b>107,064</b>      | <b>28,798</b>                      | <b>78.80%</b>  |
| <b>MAINTENANCE</b>               |                  |                  |                   |                     |                                    |                |
| MAINTENANCE WORKER               | 7,500            | 5,799            | 6,416             | 6,416               | 1,084                              | 85.55%         |
| MEDICARE                         | 218              | 171              | 189               | 189                 | 29                                 | 86.70%         |
| RETIREMENT                       | 832              | 777              | 860               | 860                 | (28)                               | 103.37%        |
| HEALTH INSURANCE                 | 240              | 977              | 977               | 977                 | (737)                              | 407.08%        |
| WORKERS COMPENSATION             | 638              | 255              | 278               | 278                 | 360                                | 43.60%         |
| PAYROLL RELATED SERVICES         | 9,428            | 7,979            | 8,720             | 8,720               | 708                                | 92.49%         |
| <b>TOTAL</b>                     | <b>9,428</b>     | <b>7,979</b>     | <b>8,720</b>      | <b>8,720</b>        | <b>708</b>                         | <b>92.49%</b>  |
| <b>TRANSFERS AND CONTINGENCY</b> |                  |                  |                   |                     |                                    |                |
| OPERATING CONTINGENCY            | 50,000           | -                | -                 | -                   | 50,000                             | 0.00%          |
| TRANSFER TO REPLACEMENT          | 30,000           | 30,000           | 30,000            | 30,000              | -                                  | 100.00%        |
| <b>TOTAL</b>                     | <b>80,000</b>    | <b>30,000</b>    | <b>30,000</b>     | <b>30,000</b>       | <b>50,000</b>                      | <b>37.50%</b>  |
| <b>TOTAL EXPENDITURES</b>        | <b>2,679,054</b> | <b>2,434,927</b> | <b>2,658,676</b>  | <b>2,632,239</b>    | <b>46,815</b>                      | <b>98.25%</b>  |
| <b>FUND TOTAL</b>                | <b>60,000</b>    | <b>22,885</b>    | <b>(53,828)</b>   | <b>(7,691)</b>      | <b>(67,691)</b>                    | <b>-12.82%</b> |

# STREET FUND

|                                    | <u>BUDGET</u>    | <u>YTD<br/>ACTUALS</u> | <u>YTD<br/>ANNUALIZED</u> | <u>DEPT<br/>PROJECTIONS</u> | <u>DEPT PROJ<br/>VARIANCE W/<br/>BUDGET</u> | <u>% BUDGET</u> |
|------------------------------------|------------------|------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------|
| <b>BEGINNING FUND BALANCE</b>      | <b>300,000</b>   | <b>1,427,959</b>       | <b>1,427,959</b>          | <b>1,427,959</b>            | <b>1,127,959</b>                            | <b>475.99%</b>  |
| <b>REVENUES</b>                    |                  |                        |                           |                             |                                             |                 |
| PLANNING/CONST FEES                | 25,000           | 22,499                 | 24,544                    | 24,544                      | (456)                                       | 98.18%          |
| BIKE PATH GRANT                    | 222,000          | -                      | -                         | -                           | (222,000)                                   | 0.00%           |
| FUEL TAX                           | 1,148,000        | 926,168                | 1,111,402                 | 1,111,402                   | (36,598)                                    | 96.81%          |
| INTEREST                           | 40,000           | 48,246                 | 57,895                    | 57,895                      | 17,895                                      | 144.74%         |
| DEVELOPER CONT                     | 37,250           | 76,320                 | 76,320                    | 76,320                      | 39,070                                      | 204.89%         |
| MISCELLANEOUS                      | -                | 2,140                  | 2,335                     | 2,335                       | 2,335                                       | 0.00%           |
| GRANTS                             | 100,000          | -                      | -                         | -                           | (100,000)                                   | 0.00%           |
| <b>TOTAL REVENUES</b>              | <b>1,872,250</b> | <b>2,503,332</b>       | <b>2,700,455</b>          | <b>2,700,455</b>            | <b>828,205</b>                              | <b>144.24%</b>  |
| <b>EXPENDITURES</b>                |                  |                        |                           |                             |                                             |                 |
| CITY MANAGER                       | 9,148            | 8,293                  | 9,175                     | 9,175                       | (27)                                        | 100.30%         |
| PUBLIC WORKS DIRECTOR              | 30,800           | 28,265                 | 31,272                    | 31,272                      | (472)                                       | 101.53%         |
| CITY RECORDER                      | 3,105            | 2,877                  | 3,244                     | 3,244                       | (139)                                       | 104.48%         |
| STREET MAINTENANCE WORK            | 24,500           | 17,644                 | 19,521                    | 19,521                      | 4,979                                       | 79.68%          |
| COMMUNITY DEV.DIRECTOR             | 15,011           | 14,140                 | 15,644                    | 15,644                      | (633)                                       | 104.22%         |
| CLERICAL                           | 3,912            | 3,528                  | 3,903                     | 3,903                       | 9                                           | 99.77%          |
| STREET SWEEPER OPERATOR            | -                | 10,825                 | 11,977                    | 11,977                      | (11,977)                                    | 0.00%           |
| MAINTENANCE WORKER                 | -                | 2,900                  | 3,209                     | 3,209                       | (3,209)                                     | 0.00%           |
| OVERTIME                           | -                | 367                    | 406                       | 406                         | (406)                                       | 0.00%           |
| MEDICARE                           | 1,935            | 1,585                  | 1,754                     | 1,754                       | 181                                         | 90.65%          |
| RETIREMENT                         | 7,167            | 10,615                 | 11,744                    | 11,744                      | (4,577)                                     | 163.86%         |
| HEALTH INSURANCE                   | 2,460            | 6,875                  | 6,875                     | 6,875                       | (4,415)                                     | 279.47%         |
| LIFE INSURANCE                     | 77               | 111                    | 111                       | 111                         | (34)                                        | 144.16%         |
| DISABILITY INSURANCE               | 903              | 1,034                  | 1,034                     | 1,034                       | (131)                                       | 114.51%         |
| WORKERS COMPENSATION               | 1,342            | 1,458                  | 1,591                     | 1,591                       | (249)                                       | 118.52%         |
| <b>PAYROLL RELATED SERVICES</b>    | <b>100,360</b>   | <b>110,517</b>         | <b>121,460</b>            | <b>121,460</b>              | <b>(21,100)</b>                             | <b>121.02%</b>  |
| OFFICE MAT'L & SUPPLIES            | 1,000            | 719                    | 1,000                     | 1,000                       | -                                           | 100.00%         |
| DUES & SUBS                        | 2,324            | 1,304                  | 1,565                     | 1,565                       | 759                                         | 67.34%          |
| DUES/LEAGUE OF OR. CITE            | -                | 2,313                  | 2,313                     | 2,313                       | (2,313)                                     | 0.00%           |
| TRAVEL                             | 750              | -                      | -                         | -                           | 750                                         | 0.00%           |
| LEGAL SERVICES                     | 2,000            | 3,282                  | 3,939                     | 3,939                       | (1,939)                                     | 196.95%         |
| AUDIT                              | -                | 1,589                  | 1,589                     | 1,589                       | (1,589)                                     | 0.00%           |
| ENGINEERING                        | 50,000           | 57,543                 | 69,052                    | 69,052                      | (19,052)                                    | 138.10%         |
| INSURANCE                          | -                | 2,480                  | 2,480                     | 2,480                       | (2,480)                                     | 0.00%           |
| SIDEWALK MAINT/REPAIR              | 25,000           | 21,954                 | 26,345                    | 26,345                      | (1,345)                                     | 105.38%         |
| STREET SWEEPING                    | 65,000           | 34,133                 | 40,960                    | 40,000                      | 25,000                                      | 61.54%          |
| STREET RESURFACING                 | 300,000          | 286,783                | 344,140                   | 286,783                     | 13,217                                      | 95.59%          |
| STREET MAINT/REPAIR                | 100,000          | 112,816                | 135,379                   | 125,000                     | (25,000)                                    | 125.00%         |
| STREET LIGHT UTILITIES             | 35,000           | 26,328                 | 31,594                    | 31,594                      | 3,406                                       | 90.27%          |
| <b>MATERIALS/SUPPLIES/SERVICES</b> | <b>581,074</b>   | <b>551,246</b>         | <b>660,355</b>            | <b>591,660</b>              | <b>(10,586)</b>                             | <b>101.82%</b>  |

|                           | <u>BUDGET</u>    | YTD<br><u>ACTUALS</u> | YTD<br><u>ANNUALIZED</u> | DEPT<br><u>PROJECTIONS</u> | DEPT PROJ<br>VARIANCE W/<br><u>BUDGET</u> | <u>% BUDGET</u> |
|---------------------------|------------------|-----------------------|--------------------------|----------------------------|-------------------------------------------|-----------------|
| BASE MAPS                 | 10,000           | 4,235                 | 4,235                    | 4,235                      | 5,765                                     | 42.35%          |
| COMPUTER EQUIPMENT        | -                | 2,391                 | 2,391                    | 2,391                      | (2,391)                                   | 0.00%           |
| EQUIPMENT                 | 16,000           | -                     | -                        | -                          | 16,000                                    | 0.00%           |
| MASTER PLAN               | 50,000           | 10,391                | 12,469                   | 37,500                     | 12,500                                    | 75.00%          |
| BIKE PATHS                | 200,000          | 17,964                | 21,557                   | 21,557                     | 178,443                                   | 10.78%          |
| STREET IMPROVEMENTS       | 287,500          | 413,325               | 495,990                  | 413,325                    | (125,825)                                 | 143.77%         |
| SIGNAL                    | 125,000          | -                     | -                        | -                          | 125,000                                   | 0.00%           |
| pedestrian bridge         | 200,000          | -                     | -                        | -                          | 200,000                                   | 0.00%           |
| STORM DRAINS              | 100,000          | 60,695                | 72,834                   | 70,000                     | 30,000                                    | 70.00%          |
| CAPITAL OUTLAY            | 988,500          | 509,000               | 609,476                  | 549,008                    | 439,492                                   | 55.54%          |
| OPERATING CONTINGENCY     | 50,000           | -                     | -                        | -                          | -                                         | 0.00%           |
| <b>TOTAL EXPENDITURES</b> | <b>1,719,934</b> | <b>1,170,764</b>      | <b>1,391,291</b>         | <b>1,262,128</b>           | <b>407,806</b>                            | <b>73.38%</b>   |
| <b>FUND TOTAL</b>         | <b>152,316</b>   | <b>1,332,568</b>      | <b>1,309,164</b>         | <b>1,438,327</b>           | <b>1,236,011</b>                          | <b>944.30%</b>  |

# REVENUE SHARING FUND

|                               |                | YTD            | YTD            | DEPT           | DEPT PROJ             |                |
|-------------------------------|----------------|----------------|----------------|----------------|-----------------------|----------------|
|                               | BUDGET         | ACTUALS        | ANNUALIZED     | PROJECTIONS    | VARIANCE W/<br>BUDGET | % BUDGET       |
| <b>BEGINNING FUND BALANCE</b> | <b>36,125</b>  | <b>34,257</b>  | <b>34,257</b>  | <b>34,257</b>  | <b>(1,868)</b>        | <b>94.83%</b>  |
| STATE REVENUE SHARING         | 103,000        | 115,711        | 115,711        | 115,711        | 12,711                | 112.34%        |
| INTEREST                      | 3,000          | 583            | 700            | 700            | (2,300)               | 23.33%         |
| <b>TOTAL REVENUES</b>         | <b>142,125</b> | <b>150,551</b> | <b>150,668</b> | <b>150,668</b> | <b>8,543</b>          | <b>106.01%</b> |
| EXPENDITURES                  |                |                |                |                |                       |                |
| POLICE OPERATING EQUIP        | 33,650         | 32,546         | 32,546         | 32,546         | 1,104                 | 96.72%         |
| COMPUTER EQUIPMENT            | 21,475         | 21,475         | 21,475         | 21,475         | -                     | 100.00%        |
| PATROL CAR                    | 62,000         | 23,164         | 62,000         | 62,000         | -                     | 100.00%        |
| LEASE BUYOUTS                 | 19,340         | 19,402         | 19,402         | 19,402         | (62)                  | 100.32%        |
| CAPITAL OUTLAY                | 136,465        | 96,587         | 135,423        | 135,423        | 1,042                 | 99.24%         |
| OPERATING CONTINGENCY         | 5,660          | -              | -              | -              | 5,660                 | 0.00%          |
| <b>TOTAL EXPENDITURES</b>     | <b>142,125</b> | <b>96,587</b>  | <b>135,423</b> | <b>135,423</b> | <b>6,702</b>          | <b>95.28%</b>  |
| <b>FUND TOTAL</b>             | <b>-</b>       | <b>53,964</b>  | <b>15,245</b>  | <b>15,245</b>  | <b>15,245</b>         | <b>0.00%</b>   |

# 911 EMERGENCY FUND

|                                     |                | YTD            | YTD            | DEPT           | DEPT PROJ             |                |
|-------------------------------------|----------------|----------------|----------------|----------------|-----------------------|----------------|
|                                     | BUDGET         | ACTUALS        | ANNUALIZED     | PROJECTIONS    | VARIANCE W/<br>BUDGET | % BUDGET       |
| <b>BEGINNING FUND BALANCE</b>       | <b>177,267</b> | <b>187,529</b> | <b>187,529</b> | <b>187,529</b> | <b>10,262</b>         | <b>105.79%</b> |
| 911 EXCISE TAX                      | 64,588         | 55,371         | 73,828         | 73,828         | 9,240                 | 114.31%        |
| INTEREST                            | 8,000          | 7,792          | 9,350          | 9,350          | 1,350                 | 116.88%        |
| <b>TOTAL REVENUES</b>               | <b>249,855</b> | <b>250,692</b> | <b>270,707</b> | <b>270,707</b> | <b>20,852</b>         | <b>108.35%</b> |
| EXPENDITURES                        |                |                |                |                |                       |                |
| DISTRIBUTION TO AGENCIES            | 15,500         | 13,843         | 18,457         | 18,457         | (2,957)               | 119.08%        |
| TRANSFER TO GEN FUND                | 66,000         | 66,000         | 66,000         | 66,000         | -                     | 100.00%        |
| <b>TOTAL EXPENDITURES/TRANSFERS</b> | <b>81,500</b>  | <b>79,843</b>  | <b>84,457</b>  | <b>84,457</b>  | <b>(2,957)</b>        | <b>103.63%</b> |
| <b>FUND TOTAL</b>                   | <b>168,355</b> | <b>170,849</b> | <b>186,250</b> | <b>186,250</b> | <b>17,895</b>         | <b>110.63%</b> |

# UTILITY FUND

|                                   |                  | YTD              | YTD              | DEPT             | DEPT PROJ<br>VARIANCE W/ |                |
|-----------------------------------|------------------|------------------|------------------|------------------|--------------------------|----------------|
|                                   | BUDGET           | ACTUALS          | ANNUALIZED       | PROJECTIONS      | BUDGET                   | % BUDGET       |
| <b>BEGINNING FUND BALANCE</b>     | <b>(62,217)</b>  | <b>27,255</b>    | <b>27,255</b>    | <b>27,255</b>    | <b>89,472</b>            | <b>-43.81%</b> |
| PLANNING/CONST FEES               | -                | 2,787            | 3,040            | 3,040            | 3,040                    | 0.00%          |
| SALEM SEWER BILLING               | 1,829,233        | 1,647,480        | 1,797,251        | 1,797,251        | (31,982)                 | 98.25%         |
| SEWER ADMIN FEES                  | 100,500          | 89,977           | 102,831          | 102,831          | 2,331                    | 102.32%        |
| LIGHTING DISTRICTS                | 225,000          | 206,010          | 224,738          | 224,738          | (262)                    | 99.88%         |
| INTEREST                          | 4,000            | 560              | 672              | 672              | (3,328)                  | 16.80%         |
| MISCELLANEOUS                     | 92,047           | 51               | 56               | 56               | (91,991)                 | 0.06%          |
| <b>TOTAL REVENUES</b>             | <b>2,188,563</b> | <b>1,974,120</b> | <b>2,155,843</b> | <b>2,155,843</b> | <b>(32,720)</b>          | <b>98.50%</b>  |
| <b>EXPENDITURES</b>               |                  |                  |                  |                  |                          |                |
| CITY MANAGER                      | 4,574            | 4,147            | 4,588            | 4,588            | (14)                     | 100.31%        |
| PUBLIC WORKS DIRECTOR             | 15,056           | 14,133           | 15,637           | 15,637           | (581)                    | 103.86%        |
| CITY RECORDER                     | 3,105            | 2,877            | 3,244            | 3,244            | (139)                    | 104.48%        |
| COMMUNITY DEV. DIRECTOR           | 6,004            | 5,656            | 6,258            | 6,258            | (254)                    | 104.23%        |
| UTILITY BILLING CLERK             | 7,678            | 7,764            | 8,590            | 8,590            | (912)                    | 111.88%        |
| MEDICARE                          | 1,098            | 536              | 593              | 593              | 505                      | 54.01%         |
| RETIREMENT                        | 4,525            | 5,520            | 6,107            | 6,107            | (1,582)                  | 134.96%        |
| HEALTH INSURANCE                  | 3,602            | 3,469            | 3,469            | 3,469            | 133                      | 96.31%         |
| LIFE INSURANCE                    | 47               | 66               | 66               | 66               | (19)                     | 140.43%        |
| DISABILITY INSURANCE              | 592              | 632              | 632              | 632              | (40)                     | 106.76%        |
| WORKERS COMPENSATION              | 320              | 164              | 179              | 179              | 141                      | 55.91%         |
| <b>PAYROLL RELATED SERVICES</b>   | <b>46,601</b>    | <b>44,964</b>    | <b>49,363</b>    | <b>49,363</b>    | <b>(2,762)</b>           | <b>105.93%</b> |
| OFFICE MAT'L & SUPPLIES           | 1,000            | 878              | 1,000            | 1,000            | -                        | 100.00%        |
| POSTAGE                           | 50               | 0                | -                | -                | 50                       | 0.00%          |
| DUES & SUBS                       | 1,437            | 742              | 891              | 891              | 546                      | 62.00%         |
| DUES/LEAGUE OF OR. CITIE          | 0                | 557              | 557              | 557              | (557)                    | 0.00%          |
| TRAVEL                            | 500              | 0                | -                | -                | 500                      | 0.00%          |
| ADVERTISING                       | 3,000            | 1,216            | 1,459            | 1,459            | 1,541                    | 48.63%         |
| LEGAL SERVICES                    | 4,000            | 1,372            | 1,646            | 1,646            | 2,354                    | 41.15%         |
| CONTRACTUAL SERVICES              | 20,000           | 17,593           | 21,112           | 20,000           | -                        | 100.00%        |
| AUDIT                             | 5,000            | 2,123            | 2,123            | 2,123            | 2,877                    | 42.46%         |
| UTILITIES                         | 600              | 505              | 606              | 606              | (6)                      | 101.00%        |
| TELEPHONE                         | 700              | 285              | 342              | 342              | 358                      | 48.86%         |
| INSURANCE                         | 1,375            | 218              | 218              | 218              | 1,157                    | 15.85%         |
| EQUIPMENT MAINTENANCE             | 1,100            | 56               | 67               | 67               | 1,033                    | 6.09%          |
| ENGINEERING SERVICES              | 20,000           | 18,685           | 22,423           | 20,000           | -                        | 100.00%        |
| STREET LIGHTING DISTRICT          | 205,000          | 176,793          | 212,152          | 212,152          | (7,152)                  | 103.49%        |
| SALEM SEWER PAYMENTS              | 1,829,000        | 1,485,317        | 1,782,380        | 1,782,380        | 46,620                   | 97.45%         |
| MISCELLANEOUS EXPENSE             | 100              | 0                | -                | -                | 100                      | 0.00%          |
| <b>MATERIALS/SUPPLIES/SERVICE</b> | <b>2,092,862</b> | <b>1,706,340</b> | <b>2,046,975</b> | <b>2,043,441</b> | <b>49,421</b>            | <b>97.64%</b>  |
| BASE MAPS                         | 4,000            | 4,235            | 4,235            | 4,235            | (235)                    | 105.88%        |
| COMPUTER EQUIPMENT                | 0                | 1,195            | 1,434            | 1,434            | (1,434)                  | 0.00%          |
| <b>CAPITAL OUTLAY</b>             | <b>4,000</b>     | <b>5,430</b>     | <b>5,669</b>     | <b>5,669</b>     | <b>(1,669)</b>           | <b>141.73%</b> |

|                           | <u>BUDGET</u>    | <u>YTD<br/>ACTUALS</u> | <u>YTD<br/>ANNUALIZED</u> | <u>DEPT<br/>PROJECTIONS</u> | <u>DEPT PROJ<br/>VARIANCE W/<br/>BUDGET</u> | <u>% BUDGET</u> |
|---------------------------|------------------|------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------|
| BOND PRINCIPLE            | 40,000           | 40,000                 | 40,000                    | 40,000                      | -                                           | 100.00%         |
| BOND INTEREST             | 5,100            | 5,100                  | 5,100                     | 5,100                       | -                                           | 100.00%         |
| TOTAL DEBT PAYMENTS       | 45,100           | 45,100                 | 45,100                    | 45,100                      | -                                           | 100.00%         |
| <b>TOTAL EXPENDITURES</b> | <b>2,188,563</b> | <b>1,801,834</b>       | <b>2,147,108</b>          | <b>2,143,573</b>            | <b>44,990</b>                               | <b>97.94%</b>   |
| <b>FUND TOTAL</b>         | <b>-</b>         | <b>172,286</b>         | <b>8,735</b>              | <b>12,270</b>               | <b>12,270</b>                               | <b>0.00%</b>    |



# WATER FUND

|                                  |                  | YTD              | YTD              | DEPT             | DEPT PROJ             |                |
|----------------------------------|------------------|------------------|------------------|------------------|-----------------------|----------------|
|                                  | BUDGET           | ACTUALS          | ANNUALIZED       | PROJECTIONS      | VARIANCE W/<br>BUDGET | % BUDGET       |
| <b>BEGINNING FUND BALANCE</b>    | <b>142,321</b>   | <b>4,530</b>     | <b>4,530</b>     | <b>4,530</b>     | <b>(137,791)</b>      | <b>3.18%</b>   |
| PLANNING/CONST FEES              | 20,000           | 13,663           | 14,905           | 14,905           | (5,095)               | 74.53%         |
| WATER SALES                      | 1,500,000        | 1,273,588        | 1,389,369        | 1,389,369        | (110,631)             | 92.62%         |
| SHUT-OFF FEES                    | 3,000            | 2,965            | 2,965            | 2,965            | (35)                  | 98.83%         |
| SET-UP FEES                      | 8,000            | 970              | 970              | 970              | (7,030)               | 12.13%         |
| SERVICE FEES                     | 50,000           | 49,819           | 54,348           | 54,348           | 4,348                 | 108.70%        |
| INTEREST                         | 10,000           | -                | -                | -                | (10,000)              | 0.00%          |
| MISCELLANEOUS                    | 4,000            | 1,466            | 1,599            | 1,599            | (2,401)               | 39.98%         |
| <b>TOTAL REVENUES</b>            | <b>1,737,321</b> | <b>1,347,001</b> | <b>1,468,686</b> | <b>1,468,686</b> | <b>(268,635)</b>      | <b>84.54%</b>  |
| <b>EXPENDITURES</b>              |                  |                  |                  |                  |                       |                |
| CITY MANAGER                     | 13,068           | 11,847           | 13,107           | 13,107           | (39)                  | 100.30%        |
| PUBLIC WORKS DIRECTOR            | 15,056           | 14,133           | 15,637           | 15,637           | (581)                 | 103.86%        |
| WATER OFFICE SUPERVISOR          | 30,396           | 28,223           | 31,225           | 31,225           | (829)                 | 102.73%        |
| WATER SUPERINTENDANT             | 40,632           | 36,944           | 40,874           | 40,874           | (242)                 | 100.60%        |
| WATER UTILITY WORKER             | 214,230          | 190,038          | 210,255          | 210,255          | 3,975                 | 98.14%         |
| COMMUNITY DEV.DIRECTOR           | 15,011           | 14,140           | 15,644           | 15,644           | (633)                 | 104.22%        |
| CLERICAL                         | 44,582           | 26,738           | 29,582           | 29,582           | 15,000                | 66.35%         |
| ADMINISTRATIVE ASSISTANT         | 7,825            | 8,019            | 8,872            | 8,872            | (1,047)               | 113.38%        |
| FINANCE OFFICER                  | 21,671           | 20,031           | 22,162           | 22,162           | (491)                 | 102.27%        |
| MAINTENANCE WORKER               | -                | 2,900            | 3,209            | 3,209            | (3,209)               | 0.00%          |
| OVERTIME                         | -                | 10,967           | 12,134           | 12,134           | (12,134)              | 0.00%          |
| VACATION                         | 5,000            | 2,210            | 2,210            | 2,210            | 2,790                 | 44.20%         |
| DUTY PAY                         | 7,000            | 5,006            | 5,539            | 5,539            | 1,461                 | 79.13%         |
| MEDICARE                         | 10,961           | 11,580           | 12,812           | 12,812           | (1,851)               | 116.89%        |
| RETIREMENT                       | 42,763           | 50,085           | 55,413           | 55,413           | (12,650)              | 129.58%        |
| HEALTH INSURANCE                 | 60,684           | 59,644           | 59,644           | 59,644           | 1,040                 | 98.29%         |
| LIFE INSURANCE                   | 904              | 973              | 973              | 973              | (69)                  | 107.63%        |
| DISABILITY INSURANCE             | 6,191            | 5,925            | 5,925            | 5,925            | 266                   | 95.70%         |
| UNEMPLOYMENT                     | -                | 4,785            | 5,200            | 5,200            | (5,200)               | 0.00%          |
| WORKERS COMPENSATION             | 9,600            | 7,588            | 8,278            | 8,278            | 1,322                 | 86.23%         |
| <b>PERSONNEL RELATED SERVICE</b> | <b>545,574</b>   | <b>511,776</b>   | <b>558,695</b>   | <b>558,695</b>   | <b>(13,121)</b>       | <b>102.40%</b> |
| OFFICE MAT'L & SUPPLIES          | 11,000           | 10,836           | 11,000           | 11,000           | -                     | 100.00%        |
| POSTAGE                          | 15,000           | 16,959           | 16,959           | 16,959           | (1,959)               | 113.06%        |
| CONCRETE                         | 4,000            | 1,289            | 1,547            | 1,547            | 2,453                 | 38.68%         |
| ROCK & BACKFILL                  | 6,000            | 5,013            | 6,015            | 6,015            | (15)                  | 100.25%        |
| PAVING                           | 10,000           | 6,041            | 7,249            | 7,249            | 2,751                 | 72.49%         |
| FLOURIDE                         | 8,000            | 7,934            | 9,521            | 7,934            | 66                    | 99.18%         |
| DUES & SUBS                      | 4,370            | 3,367            | 4,041            | 3,367            | 1,003                 | 77.05%         |
| DUES/LEAGUE OF OR. CITE          | 0                | 2,791            | 2,791            | 2,791            | (2,791)               | 0.00%          |
| TRAINING                         | 11,250           | 12,749           | 13,908           | 13,100           | (1,850)               | 116.44%        |
| ADVERTISING                      | 2,000            | 310              | 372              | 372              | 1,628                 | 18.60%         |
| LEGAL SERVICES                   | 2,000            | 1,821            | 2,185            | 2,185            | (185)                 | 109.25%        |
| CONTRACTUAL SERVICES             | 13,000           | 13,408           | 16,089           | 13,408           | (408)                 | 103.14%        |
| AUDIT                            | 5,000            | 2,770            | 2,770            | 2,770            | 2,230                 | 55.40%         |
| FLAGGING                         | 5,000            | 1,107            | 1,329            | 1,329            | 3,671                 | 26.58%         |
| ENGINEERING                      | 15,000           | 17,156           | 20,587           | 17,156           | (2,156)               | 114.37%        |
| JANITORIAL                       | 3,000            | 2,439            | 2,927            | 2,927            | 73                    | 97.57%         |
| LAUNDRY                          | 6,700            | 3,465            | 4,158            | 4,158            | 2,542                 | 62.06%         |



|                                   |                  | YTD              | YTD              | DEPT             | DEPT PROJ<br>VARIANCE W/<br>BUDGET | % BUDGET      |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------------------------|---------------|
|                                   | BUDGET           | ACTUALS          | ANNUALIZED       | PROJECTIONS      |                                    |               |
| UTILITIES                         | 0                | 281              | 337              | 337              | (337)                              | 0.00%         |
| ELECTRICITY                       | 80,080           | 73,160           | 87,792           | 77,000           | 3,080                              | 96.15%        |
| NORTHWEST NATURAL GAS             | 4,200            | 4,793            | 5,752            | 5,752            | (1,552)                            | 136.95%       |
| TELEPHONE                         | 6,800            | 11,971           | 14,365           | 14,365           | (7,565)                            | 211.25%       |
| TELEMETRY                         | 8,000            | 6,262            | 7,514            | 7,514            | 486                                | 93.93%        |
| INSURANCE                         | 19,000           | 32,774           | 33,000           | 33,000           | (14,000)                           | 173.68%       |
| GASOLINE                          | 6,000            | 2,774            | 3,329            | 3,329            | 2,671                              | 55.48%        |
| DIESEL FUEL                       | 2,000            | 3,349            | 4,019            | 4,019            | (2,019)                            | 200.95%       |
| VEHICLE MAINTENANCE               | 11,000           | 11,096           | 13,315           | 13,315           | (2,315)                            | 121.05%       |
| EQUIPMENT MAINTENANCE             | 3,000            | 3,871            | 4,645            | 4,645            | (1,645)                            | 154.83%       |
| PLANT MAINTENANCE                 | 22,000           | 19,382           | 23,258           | 22,000           | -                                  | 100.00%       |
| PUMPHOUSE MAINT.                  | 12,000           | 9,339            | 11,207           | 11,207           | 793                                | 93.39%        |
| PUMP MAINTENANCE                  | 25,000           | 20,818           | 24,982           | 24,982           | 18                                 | 99.93%        |
| OPERATING MATERIALS               | 20,000           | 21,834           | 26,201           | 21,834           | (1,834)                            | 109.17%       |
| WELL PROPERTY LEASE               | 4,100            | 3,180            | 3,816            | 3,816            | 284                                | 93.07%        |
| LAB TESTS                         | 100,000          | 11,793           | 14,152           | 14,152           | 85,848                             | 14.15%        |
| CASH OVER & SHORT                 | 0                | 192              | 230              | 211              | (211)                              | 0.00%         |
| MISCELLANEOUS EXPENSE             | 1,000            | 640              | 768              | 768              | 232                                | 76.80%        |
| <b>MATERIALS/SUPPLIES/SERVICE</b> | <b>445,500</b>   | <b>346,963</b>   | <b>402,129</b>   | <b>376,513</b>   | <b>68,987</b>                      | <b>84.51%</b> |
| BASE MAPS                         | 15,000           | 4,235            | 4,235            | 4,235            | 10,765                             | 28.23%        |
| COMPUTER EQUIPMENT                | 0                | 5,084            | 5,084            | 5,084            | (5,084)                            | 0.00%         |
| WATER METERS                      | 23,000           | 19,719           | 23,663           | 19,719           | 3,281                              | 85.73%        |
| LARGE METER REPLACEMENT           | 15,000           | 5,089            | 6,107            | 5,089            | 9,911                              | 33.93%        |
| WATER MAIN REPLACEMENT            | 0                | 143              | 143              | 143              | (143)                              | 0.00%         |
| WATER PUMP                        | 20,000           | 19,271           | 23,125           | 19,271           | 729                                | 96.36%        |
| <b>CAPITAL OUTLAY</b>             | <b>73,000</b>    | <b>53,541</b>    | <b>62,358</b>    | <b>53,541</b>    | <b>19,459</b>                      | <b>73.34%</b> |
| <b>OPERATING CONTINGENCY</b>      | <b>50,000</b>    | <b>-</b>         | <b>-</b>         | <b>-</b>         | <b>50,000</b>                      | <b>0.00%</b>  |
| BOND PRINCIPLE                    | 255,000          | 255,000          | 255,000          | 255,000          | -                                  | 100.00%       |
| BOND INTEREST                     | 122,210          | 122,210          | 122,210          | 122,210          | -                                  | 100.00%       |
| <b>TOTAL EXPENDITURES</b>         | <b>1,491,284</b> | <b>1,289,490</b> | <b>1,400,392</b> | <b>1,365,959</b> | <b>125,325</b>                     | <b>91.60%</b> |
| <b>FUND TOTAL</b>                 | <b>246,037</b>   | <b>57,511</b>    | <b>68,294</b>    | <b>102,727</b>   | <b>(143,310)</b>                   | <b>41.75%</b> |

# WATER FACILITY FUND

|                               | <u>BUDGET</u>  | <u>YTD<br/>ACTUALS</u> | <u>YTD<br/>ANNUALIZED</u> | <u>DEPT<br/>PROJECTIONS</u> | <u>DEPT PROJ<br/>VARIANCE W/<br/>BUDGET</u> | <u>% BUDGET</u> |
|-------------------------------|----------------|------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------|
| <b>BEGINNING FUND BALANCE</b> | <b>736,837</b> | <b>463,026</b>         | <b>463,026</b>            | <b>463,026</b>              | <b>(273,811)</b>                            | <b>62.84%</b>   |
| SYSTEM DEVELOP INTEREST       | 15,000         | -                      | -                         | -                           |                                             |                 |
| INTEREST                      | -              | 17,907                 | 21,488                    | 21,488                      | 21,488                                      | 0.00%           |
| WATER SDC                     | 85,000         | 89,456                 | 107,347                   | 107,347                     | 22,347                                      | 126.29%         |
| SEWER SDC                     | 100,000        | -                      | -                         | -                           | (100,000)                                   | 0.00%           |
| <b>TOTAL REVENUES</b>         | <b>936,837</b> | <b>570,389</b>         | <b>591,862</b>            | <b>591,862</b>              | <b>(329,975)</b>                            | <b>63.18%</b>   |
| FLOURIDE INJECTOR-17TH        | 10,000         | 8,341                  | 8,341                     | 8,341                       | 1,659                                       | 83.41%          |
| TELEMETY SYSTEM REPLACEM      | 0              | 6,057                  | 6,057                     | 6,057                       | (6,057)                                     | 0.00%           |
| LAND ACQUISITION              | 30,000         | 69,988                 | 69,988                    | 69,988                      | (39,988)                                    | 233.29%         |
| MEADOWS WELL                  | 0              | 51,780                 | 51,780                    | 51,780                      | (51,780)                                    | 0.00%           |
| WILLOW LAKE WELL              | 125,000        | 0                      | -                         | -                           | 125,000                                     | 0.00%           |
| SEWER LINE EXTENSIONS         | 50,000         | 0                      | -                         | -                           | 50,000                                      | 0.00%           |
| <b>TOTAL EXPENDITURES</b>     | <b>215,000</b> | <b>136,166</b>         | <b>136,166</b>            | <b>136,166</b>              | <b>78,834</b>                               | <b>63.33%</b>   |
| <b>FUND TOTAL</b>             | <b>721,837</b> | <b>434,223</b>         | <b>455,696</b>            | <b>455,696</b>              | <b>(251,141)</b>                            | <b>63.13%</b>   |



930 Chemawa Rd. N.E.  
P.O. Box 21000  
Keizer, Oregon 97307-1000

12 June 1995

TO: MAYOR AND CITY COUNCIL

FROM: WALLY G MULL

SUBJECT: PAVEMENT MANAGEMENT PROGRAM

### **INTRODUCTION**

The city of Keizer Pavement Management Program has two main purposes:

1. Provide statistical data on the City's paved road network.
2. Provide forecasted revenue needs for the fiscal year, identifying resurfacing strategies to be initiated over the fiscal budget period.

### **BACKGROUND**

City of Keizer Department of Public Works is responsible for the maintenance of over 100 miles of paved road. Of those roads over 70 miles have curbs. The City's road system is expanding by over 5.0 miles per year due to urban growth.

In 1989 the City of Keizer contracted with Marion County Public Works to conduct pavement condition analysis. This was achieved by a computerized pavement program. The program used is Metropolitan Transportation Commission (MTC). Computerized pavement management performs several key functions: pavement condition analysis; projecting maintenance and rehabilitation projects; and revenues needed to maintain paved roads.

To manage roads at acceptable levels, MTC uses a rating system called Pavement Condition Index (PCI). The rating is based on a scale of 0 to 100. It has been determined that a PCI level of 70 is the target level.

•  
Administration  
Public Works  
Community Development  
Municipal Court  
Phone 503.390.3700  
Fax 503.393.9437  
Police (business only)  
Phone 503.390.3713  
Fax 503.390.8295  
•  
**Incorporated 1982**  
**Pride, Spirit, Volunteerism**

## SEVEN STEPS TO A "PMS"

How do you spell relief? When it comes to pothole-riddled streets and roads, the answer may well be PMS.

With the aid of a Pavement Management System or PMS, a jurisdiction can organize and analyze information about pavement conditions to develop the most cost-effective treatments and strategies which will provide the greatest benefit to the overall street and road network.

Communities wanting to break the cycle of patching streets in poor condition while deferring more cost-effective preventive maintenance need a long-term commitment to a PMS and enough discipline to reverse their maintenance priorities.

Since MTC's PMS is available at no cost to cities and counties in the MTC region, the major commitment from a jurisdiction wishing to implement a PMS is to conduct a pavement survey. This will require about one person-month for every 35 to 50 miles in a jurisdiction's network of streets and roads. Pavement condition is the most significant criteria used for making decisions about maintenance and rehabilitation.

To implement a PMS, a jurisdiction has seven major steps to undertake, as listed below, which take the jurisdiction from evaluating the condition of its streets and roads to developing a five-year maintenance program and budget.

### 1. Commitment to PMS/Develop a Work Plan

A long-term commitment is required to implement a pavement management system. A work plan should be prepared before implementation of a PMS to help formulate a set of objectives and a plan for accomplishing them.

2. Define Network Sections

As a first step in actual implementation of a pavement management system, the city or county must divide all the pavement within the jurisdiction into uniform and manageable sections.

3. Survey Pavement Condition

The jurisdiction must then determine the condition of each pavement section; section ratings are based on a pavement condition index (PCI), a scale from 1 to 100 with higher figures indicating better condition. MTC and ERBS Consultants have developed a Pavement Condition Index Manual which presents descriptions of the seven types of distress; photographs aid the inspector in identifying the distress types and severity levels.

4. Determine Cost-Effective Maintenance Treatment

Built into the PS computer program are a series of criteria and values which trigger the identification of pavement sections needing repair. A major part of implementing a PMS is the jurisdiction's review of the criteria and values which serve as the basis in identifying pavement sections in need of repair and appropriate solutions.

5. Determine Base Year Program and Budget

Those pavement sections requiring maintenance in a given year are combined to form the overall network budget needs for that year.

6. Project Five-Year Program and Budget

The PMS model projects the conditions of each individual segment into the future based on the performance of existing pavements. The PMS, in essence, serves as a crystal ball that helps public works officials see what their roads will look like five years down the road.

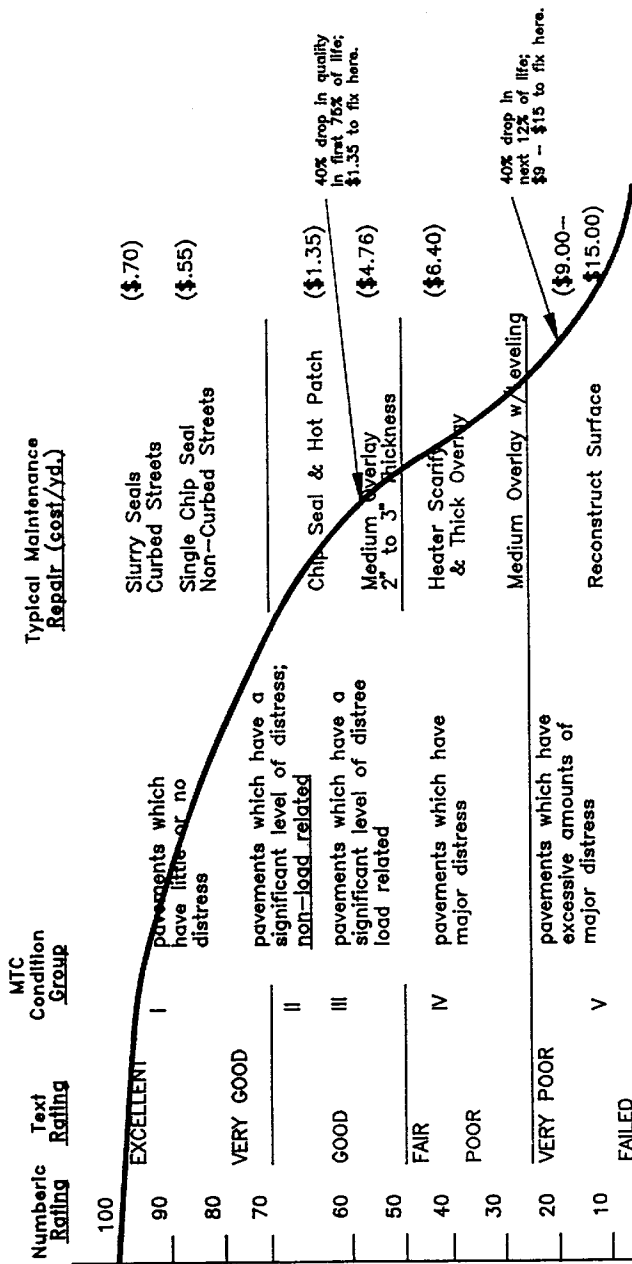
7. Test Alternative Five-Year Programs and Budgets

Alternative programs and budgets for the current and future years are tested and reviewed in search of the program that provides the best overall benefit. By using these analyses, the decision makers can determine how various budget levels and treatment choices will affect the network condition.

16

**STREETS MAINTAINED IN A GOOD TO  
EXCELLENT CONDITION COST SIGNIFICANTLY  
LESS TO MAINTAIN THAN ALLOWING THEM TO  
CYCLE THROUGH TO THE POOR AND FAILED  
CONDITION.**

# MTC CONDITION RATING AND TYPICAL REPAIRS



YEARS



DRAFT

SELECTING THE RIGHT TREATMENT  
FOR LOCAL AGENCIES

by

Roger E. Smith, PE, Ph.D.  
Associate Research Engineer  
Texas Transportation Institute  
and Associate Professor of Civil Engineering  
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College Station, TX

April 1993

## INTRODUCTION

Some agencies have used one or two treatments as the standard treatment. Generally these include a chip seal or slurry seal for preventive maintenance or pavements in a moderate state of deterioration and an overlay for pavements in an advanced state of deterioration. Many agencies were unlikely to even try another treatment until recently. Those that did often were looking for a new magic treatment that would fix all of their problems. One of the key things that has been discussed in several of the last technology transfer seminars conducted at the Metropolitan Transportation Commission was that the treatment must be matched to the problem. There is no magic treatment that can be used to correct every problem. The treatment has to be selected for each individual street.

Recently in a Bay Area city, a city administration decided that slurry seals should no longer be used because they didn't work. After a short investigation, it became apparent that in some cases slurry seals had been applied to streets that were beyond the condition at which a slurry seal should have been applied. In at least one case, there were areas of localized deterioration that should have been corrected prior to application of the slurry seal. And in a couple of cases, it appeared that there was some mixture design or construction problem with the slurry seals. As usual for complex problems, there was no simple right answer.

There are generally several treatments that can be applied to a pavement that needs rehabilitation or preventive maintenance. It is simple to say that the best treatment is the one that is most cost-effective; however, it is sometimes difficult to determine which treatment is the most cost-effective. Some public works agencies do not have the staff or resources to complete a detailed evaluation of every section of pavement that needs repair. This paper tries to provide guidance on how to conduct an investigation about which treatment is the best.

## PROJECT-LEVEL EVALUATION

The size of the project and importance of the street or road to the agency influence the amount of time and funds which will be expended in project-level evaluation. Pavements on high-volume major roads and streets should be subjected to more testing and evaluation than those on low-volume roads and streets. The concepts and evaluation procedure described herein are valid for a road or street with any volume of traffic; only the amount of testing and time expended in reaching the conclusions should vary.

Pavement evaluation is a complex problem requiring a systematic approach to quantify and analyze the many variables which influence identification and selection of appropriate maintenance and rehabilitation techniques. In new design, many design parameters are assumed or developed from laboratory tests. However, many of the materials to resist traffic and environmental induced damage are in place when maintenance and rehabilitation are being planned. They generally do not have the same properties that they had when they were newly placed, and the existing material properties can be determined along with the condition, traffic, and other constraints. Project-level analysis

alligator cracking and rutting, can be used to determine how the pavement has performed structurally to the present; however, it is difficult to use distress to predict future structural performance. In other words, distress can show those that have structural deficiencies that have reached a point that obvious damage is present. Distress cannot tell if a pavement that has not experienced substantial distress is about to experience structural distress in the future. All rational overlay design procedures use some method to determine the amount of additional thickness needed for future traffic loadings. To supplement the distress data available, the analyst should conduct an overlay design for the existing pavement. It is assumed that the pavement is structurally adequate if an overlay is not required. More discussion of overlay design is presented later in the discussion of overlays.

For lower volume roads, distress along with information on the layer thicknesses is often the only information used. Many pavement management systems, such as the Bay Area network-level pavement management system use a distress based pavement condition index (PCI) as the basic measure of condition. The PCI is a good tool for use at the network-level; however, it does not define either the functional or structural condition adequately. Information on the specific type, amount, and severity of the distresses found on the pavement section are more important for this level of analysis.

However, it is done, the structural adequacy question should be addressed first. Most treatments that will correct structural problems will also correct functional problems as well. Treatments that provide structural improvements include overlays, recycling, and reconstruction.

### Functional Adequacy

Functional adequacy is normally used to describe how well the pavement meets its basic purpose of providing a smooth and safe riding surface. Functional adequacy is usually measured in terms of roughness and surface friction. Some indications of such problems can be surmised from distress information, e.g., pavements with severe distortion problems are generally very rough and pavements with severe rutting generally have surface friction problems in wet weather; however, other measures may be advisable during project-level evaluation. A quick ride over the section will normally be sufficient to determine if the pavement has roughness problems severe enough to require that they be specifically addressed. However, equipment is available to measure roughness. Generally, while most of the agencies will not purchase roughness equipment, consulting firms can provide the measuring and analysis services.

Treatments that address roughness include milling, overlays, recycling, and reconstruction. Milling will often be followed with a wearing course, but that may be a surface seal. The roughness analysis is recommended to be completed prior to consideration of skid problems; because the feasible treatments for correcting roughness problems will normally also correct a skid problem.

## Drainage

Much has been written about subsurface drainage in the last few years, and all investigations should begin with the condition of surface drainage. Failure to provide adequate drainage can lead to premature failure of any maintenance or rehabilitation treatment. Moisture related distress types, presence of moisture in the pavement structure, surface drainage problems, and highly variable deflections may indicate moisture induced damage which can be addressed with improved drainage. If the drainage has created the problem and is not corrected prior to application of the treatment, then the treatment can be expected to fail quickly. Drainage surveys can be simple drive through, or they can be a thorough investigation.

## Previous Maintenance

It is possible to keep a pavement in a relatively serviceable condition by applying considerable maintenance. However, a point is reached where this is no longer cost-effective. The amount and type of maintenance that has been applied can have an impact on the type of treatment that should be selected. For instance, hot in-place recycling should be used on pavements with relatively uniform surfaces. Information on past maintenance may also be helpful in determining the feasibility of using localized maintenance treatments as a pavement repair strategy or as a surface preparation tool in rehabilitation. Most pavement management systems collect information on patching which can be used. Some agencies have maintenance management systems that will provide information on the level of maintenance applied. Where that data is not available from records, interviews with maintenance personnel can indicate if the problem exists.

## Condition Variability

Pavements are normally constructed in multi-unit segments. These segments are often used as management sections or "uniform sections" when managing the pavement network. However, many pavements will not perform uniformly throughout that section even though they have the same structural section and are subjected to similar traffic. As a result, it may be more economical to apply different rehabilitation treatments to portions of sections which are performing differently. A pavement condition index such as PCI and individual distress types can be used to identify variances in performance. For low volume roads, a simple drive through may be adequate to determine the uniformity. For larger and more heavily travelled roads, it is helpful to plot strip maps of distress levels along the project to determine if significant differences exist.

On multi-lane facilities, the lane subjected to the heaviest traffic may deteriorate more quickly than others. In this situation, different treatments may be considered for different lanes. A comparison of strip maps along each lane can be helpful in making this analysis. Where significant differences are found, different treatments can be designed.

utility covers will need to be adjusted if an overlay is selected and curb height along with crown height may limit treatments requiring additional layers of pavement. While these are not direct inputs to design, they influence the overall cost of the alternative and must be considered in the final cost analysis, even though they do not normally affect the life of the treatment.

### Shoulders and Other Facilities

Shoulders, sidewalks, bike paths, and other facilities are not direct pavement design inputs; however, they can influence the total alternative costs. If the shoulders and adjacent bike paths are in good condition, an alternative which does not require resurfacing them may be more attractive since they will normally need to be raised to match any significant increase in the traveled surface. However, if the shoulders and adjacent bike lanes need repair and analysis indicates that an overlay will provide the serviceability desired, then the overlay will be a more attractive alternative.

### Collecting the Data to Answer the Questions

The first step is to gather information currently available. Many agencies have started keeping more information about their pavements in their pavement management and maintenance management systems. These should be the first sources of information. Other available information including available traffic information and that published in soil conservation service soil reports should also be gathered. Depending on how complete that information is, a preliminary estimate of the problem can be made.

The second step should be a field visit to the pavement site. This can be accomplished for several sections within the same day. It should include at least a cursory evaluation of the surface distress, drainage, roughness, uniformity of condition along the section, possible traffic control problems and options, geometric constraints, other facilities that will require work, and any special safety problems. It may be a simple drive through for less important roads and streets to simply verify what was surmised from the available information. For more important roads and streets, it can be a more formal survey including establishing a traffic survey.

This information is then combined with the information that was previously available, and the questions listed above are considered. This should lead to a preliminary determination that the treatment needed will be a surface seal with localized repair, a more complete treatment such as an overlay, or a very heavy treatment such as removal and replacement. This information can then be used to determine what additional information is needed to complete the design of the treatment. For those roads and streets needing preventive maintenance, low volume roads and streets, and those for which the solutions are obvious at this point, there may be no need to complete further analysis. For many sections, additional steps will be needed.

#### 4. salvage value.

In a cost analysis, the costs are generally considered positive and the savings are considered negative. Salvage value would be negative, and all others would be positive.

Several different analysis methods can be used including present worth, equivalent uniform annual costs, and rate of return. In order for the present worth method to be used, the analysis periods of all alternatives must be the same. This is OK for new construction without consideration of maintenance or rehabilitation, but when those are included the lives are generally very different. This can be handled in a couple of different ways:

1. Assume the final sequence of treatments is repeated until the ends of the design lives of all alternatives coincide. This may be a very long period, and, although it allows comparison of the present worth of the projects, the dollar amounts will not be what is actually intended to be spent on the project.
2. Select the shortest life among the alternatives as the analysis period, and the remaining life of each of the other alternatives can be expressed monetarily as the salvage value. Of course, determining remaining life is difficult, and the value of later years of pavement life may not be equivalent to earlier years.

Equivalent uniform annual cost analysis takes this difference into account by using the concepts of 1 above without explicitly calculating it. Equivalent uniform annual cost and present worth should give the same answers if the same assumptions are made.

The equations are standard engineering economic analysis equations. Most engineering economics books have tables that solve the equations. Even in the equivalent uniform annual cost analysis process, the present value of all costs must be first determined and summed.

$$PW = FV \left[ \frac{1}{(1+i)^n} \right]$$

where:

PW = present worth

FV = future value

i = discount (interest) rate

n = number of years into the future at which the cost or value is encountered

The equivalent uniform annual cost is calculated from the present worth.

cost per year of the "standard" treatment. This will give the number of years that the new treatment must provide to have a cost per year equal to that of the "standard" treatment. If this number of years seems reasonable, then the new treatment can be selected.

## REPAIRING PAVEMENTS

The type or treatment being considered has an impact on the type of survey and tests that should be conducted. Each treatment has its place, but no one treatment can be selected as the best of magic repair for all problems. This section gives a brief overview of available treatments and provides some references for more detailed information.

The pavement field has not developed a consistent set of terminology related to pavement repair. Pavement maintenance, restoration, rehabilitation, resurfacing, and reconstruction are all commonly used terms. This terminology has developed primarily because of the involvement of the Federal Highway Administration in funding pavements. The term repair is used in this document to include all aspects and types of maintenance, reconstruction, and rehabilitation from the time the pavement is constructed until it is replaced or abandoned.

## Maintenance Treatments

As currently used, maintenance treatments do not generally address overall structural problems. They are used to prevent deterioration of existing pavements, preserve the existing structure, and to correct surface problems such as surface friction (or skid resistance), surface irregularities (ride or roughness), localized areas of deterioration, and other similar problems. Tables 1 and 2 give advice on use of some maintenance treatments. There are no real design procedures for most of the maintenance treatments, but there are mix design procedures for many of the materials used in them.

### Seal Coats

A seal coat, a thin surface treatment, can improve the surface texture and reduce the permeability of an asphalt concrete surface. Seal coats, depending on the purpose, may or may not have an aggregate cover. They cannot correct structural problems; they can sometimes be used on pavements with structural problems as a stop-gap treatment to hold the pavement for a few months or years until adequate funding is available to address a structural problem. Several types of treatments called seal coats and surface seals are used to seal pavement surfaces. The main types of seal coats are aggregate seals, emulsion slurry seals, fog seals, and sand seals. There are mix design procedures which must be followed for aggregate seals, slurry seals and multiple seals; these are described in Section J of Reference 4. The existing pavement must be tested with the proposed agent for rejuvenating seals. Sand seals generally use a locally developed mix design. The main types of damage they address are loss of surface friction, fine cracking, and asphalt concrete aging.

**Multiple Surface Treatment** - A multiple aggregate seal is the application of two or more aggregate seals placed one on another. The corrective capabilities are the same as for a single surface treatment; however, a multiple aggregate seal is a denser wearing and waterproofing course and may add a small amount of strength. They are generally more durable than single treatments providing longer life and may be applicable to pavements with larger traffic volumes (14). The first course has a larger aggregate size and normally determines the thickness, while the second course has a smaller aggregate and serves more to partially fill the surface voids in the mat of the first course aggregate. They are often called multiple aggregate seals or multiple chip seals.

**Slurry Seal** - A slurry seal is a semi-fluid, homogeneous mixture of emulsified asphalt, water, mineral filler, and well-graded fine aggregate, to which special-purpose additives are sometimes added (5). The emulsified asphalt cement serves as a binder, holding the crushed aggregate together and securing the new slurry surface to the original pavement surface on which it is applied. Since an asphalt slurry is a semi-fluid, a slurry seal can fill small cracks and cover existing weathering and ravelling in a pavement as it provides a new exposed surface to reduce permeability and protect the existing surface from further weathering and ravelling damage. Existing distress in older pavements such as minor cracking and slipperiness due to flushing or aggregate polishing can be corrected by a slurry seal.

Slurry seals are often used when chip seals are not acceptable because of rock loss but traffic does not warrant a thin hot mix asphalt concrete surface. Some agencies place slurry on all roads with curb and gutter, rather than chip seals. Proper type and aggregate selection will give adequate skid resistance. They generally do not seal cracks as well as a chip seal. Shear failures should be repaired before application. Generally large longitudinal and transverse cracks should be sealed. Used as preventive maintenance applications, they are often applied 5 to 7 years after hot mix asphalt construction or earlier seal application.

**Cape Seal** - A Cape Seal is a multiple surface seal consisting of an application of an emulsion slurry seal on a newly-constructed aggregate seal. The term "Cape Seal" comes from it's development in the Cape Provincial Administration of South Africa (6). In a two-course surface treatment, the large size stone is in the first course and normally determines the thickness. The second course fills the surface voids in the mat of the first course aggregate. The extent to which these voids are filled determines the texture and riding quality of the Cape Seal. A major advantage of a Cape Seal is that the treatment produces a seal with no loose cover stone.

Cape seals are often used as a double seal when a double chip seal is not considered acceptable, or they are used to make a single chip seal acceptable. A major advantage of a Cape Seal is that the treatment produces a double seal with no loose cover stone.

**Fog Seal** - A fog seal is a light application of a slow-setting emulsified asphalt diluted with water in a one-to-one ratio, similar to a tack coat (5). The application is made without an aggregate cover. The dilution



**Chip Seal with Polymer Modified Binder** (performance based chip seals) - These seals are similar to a standard chip seal except that they have polymer modified binders. They are used as final repair surface on pavements with considerable block cracking but which have not developed significant damage to the base and subgrade, generally on lower traffic levels.

Localized shear failures and alligator cracking should be repaired before application. Some benefits over regular chips seals include:

1. increased chip retention
2. more flexible binder
3. can handle more longitudinal and transverse cracking and block cracking
4. more durable

**Micro-surfacing** - Micro-surfacing is essentially a slurry seal with a polymer modified emulsified asphalt cement binder and high quality aggregate. It is formulated to allow traffic to be applied quickly. It can be placed in much greater thicknesses than is possible for conventional slurry seals. It has been used to fill ruts in existing asphalt concrete pavements.

It is often used on high traffic roads where chip seals are not considered acceptable. There is no chip loss and it provides good skid resistance. Shear failures should be repaired before application. Generally large longitudinal and transverse cracks should be sealed. Some of the benefits over conventional slurry include:

1. quicker opening times
2. can be placed thicker - for rut filling
3. more durable
4. can handle higher traffic loadings
5. can possibly handle more flushed surfaces

### **Crack and Joint Sealing**

Moisture infiltrates into pavement layers through cracks in asphalt concrete and portland cement concrete pavements and through joints in portland cement concrete pavements. These are sealed as preventive maintenance treatments to reduce the infiltration of moisture. The procedures for joint and crack sealing are described in some detail in Section 3.1 of Reference 5. There are design procedures for the width and thickness of the joint sealant placed in portland cement concrete pavements. The sealant properties, joint spacing, concrete properties, and environment are considered. Very few agencies design crack sealing. Crack and joint sealing are used to address the following types of problems.

Types of distress expected to develop due to moisture related problems in the foundation layers of asphalt surface pavements (in advanced stages) are summarized by Carpenter, et al (7). In general, they are fatigue type failures which occur due to the decreased strength of the pavement layers. Typically, the softening of one or more of the pavement layers, and degradation of material quality in terms of stiffness and strength, are the initial manifestation of excess moisture within the pavement system. Field

In slab stabilization, a grout or asphalt cement is pumped under the pavement slabs. The goal is to fill the void without raising the existing slab and reestablish full support. Currently there is considerable concern about how to locate voids and support loss, how to differentiate between voids and loss of support, and how to determine if the void is filled during the maintenance operation. If the grout is not properly inserted, it may create uneven support that can lead to cracking.

In slab jacking, or mud jacking, the pavement is raised to realign the longitudinal profile. The grout is pumped under the slab and used to lift low areas of the pavement to match surrounding elevations. If the grout is not properly inserted, it may create uneven support that can lead to cracking.

These two processes are described in reference 9. The types of grout and requirements for the grout are also discussed. This treatment is more in the art stage than in the science stage of knowledge.

### **Diamond Grinding, Grooving, and Cold Milling**

Diamond, or other abrasive, grinding is used to remove faulting in portland cement concrete pavements. A large mandrel with diamond, or other type of abrasive, blades closely spaced are used to remove high places on the surface of the pavement. Relatively small depths are normally removed. This only addresses the symptom, it does not address the cause of the faulting.

Grooving uses the same concept, except the blades are spaced at about 3/4 inch. The saw cuts make grooves that allow water to escape from under moving wheel and reduces hydroplaning potential. This does not affect the smoothness of the pavement surface.

Cold milling uses a large machine that has chipping teeth on a mandrel that chip away the surface. This is normally used on asphalt concrete pavements to reestablish a uniform transverse profile and to remove high points to adjust the longitudinal profile. It is also used to remove surface prior to overlay and in preparation for recycling. These processes are described in reference 9.

### **Pressure Relief Joints**

Pressure relief joints are expansion joints that are placed in an existing portland cement concrete pavement which is experiencing blow-ups. This provides a place for the pavement to expand into to reduce blow-up potential. However, they create other problems. They are described in reference 9.

### **Load Transfer Restoration**

Load, or deflection, transfer across joints in portland cement concrete pavements reduces the stress in the slab and extends the life of the pavement. Early loss of load transfer increases the rate of deterioration. Several methods have been used to try to reestablish load transfer. They are

Asphalt overlays on rigid (portland cement concrete) pavements:

- a. Asphalt concrete
  - first application
  - subsequent application
- b. Porous friction course
- c. Break and seat portland cement concrete and overlay with asphalt concrete

Portland cement concrete overlays on existing portland cement concrete pavements

- a. jointed concrete overlay
  - unbonded
  - partially bonded
  - fully bonded
- b. continuously reinforced concrete overlays
  - unbonded only

Portland cement concrete overlays on existing asphalt concrete pavements (unbonded only)

- a. jointed concrete overlay
- b. continuously reinforced concrete overlay

Continuously reinforced concrete is normally used only in high volume highways. In addition, overlays can be placed with various additional components or treatments. They can be placed with fabric or stress absorbing interlayers to reduce reflective cracking. The pavement can be milled or hot in-place recycled prior to the overlay. Portland cement concrete pavements can be broken into smaller pieces and seated with a heavy roller prior to applying the asphalt concrete overlay.

Overlay design procedures commonly used are generally based either on deflection analysis or component analysis, also called structural deficiency. In the component analysis, a new road surface is designed on the existing subgrade and base for past and future traffic. The difference between the design surface thickness and the existing surface thickness is the required overlay thickness. The problem with the component analysis approach is the difficulty in adjusting the thickness of the existing surface to account for the damage caused by prior traffic (2, 12).

Deflection based overlay design procedures require that deflection measurements be made on the road surface. The deflection analysis approach requires that the existing road surface be tested with nondestructive deflection testing equipment such as a Benkelman Beam, Dynaflect, Road Rater, or Falling Weight Deflectometer. This approach provides information on the overall response of the existing road surface to an imposed load. The deflection response can then be related to the structural capacity of the existing road surface. When used with traffic information, the thickness of an overlay to meet future traffic needs can be determined. Generally, the information from deflection testing must be adjusted to reflect the expected changes in road surface response to the various seasons, in addition to the possible requirement of other sophisticated interpretation. The CALTRANS

procedures are used to account for the reclaimed asphalt, recycling agency, and reclaimed aggregate. Reference 9 describes this process in some detail.

Hot mix recycling is the equivalent of placing new asphalt concrete. It is used when the existing asphalt concrete needs to be removed and replaced. Structural improvements are only achieved by adding additional layers of asphalt concrete. Few agencies specify hot mix recycling. They generally specify that the desired amount of existing asphalt concrete be removed and be replaced with hot mix asphalt concrete meeting current specifications. The option to recycle is then up to the contractor based on the least expensive materials.

Surface recycling (or hot in-place recycling) heats the surface of the existing pavement and reworks it in place in a hot process using special equipment. Recycling agents can be added to modify the aged asphalt cement. New aggregate and virgin asphalt concrete may be added. Currently, the material is generally considered approximately equivalent to virgin hot mix asphalt concrete if proper quality control is practiced for use in the structural design. Special mix design procedures are used to account for the reclaimed asphalt, recycling agency, and reclaimed aggregate. An overlay is often placed on the recycled mix. Reference 9 describes this process in some detail.

This procedure reworks the asphalt concrete and changes its properties; however, it is only effective for the top 1 to 1.5 inches. It will not correct structural problems, but it can be used to prepare the surface for an overlay that will increase the structural capacity.

Cold in-place recycling reworks the existing material in place in a cold process. Recycling agents can be added to modify the aged asphalt cement. Emulsified asphalt cement can then be added, and the material can be recompacted in place. All or part of the existing surface may be reworked in this manner. For pavements with thin surfaces, the surface and part, or all, of the existing base may be reworked and stabilized with an emulsified asphalt cement, portland cement, lime-fly ash, or other stabilizer producing a stabilized base. A wearing surface of hot mix asphalt concrete or a surface treatment must be applied to protect the base. For pavements with thin surfaces and little base, the surface base and part of the subgrade may be mixed in place and stabilized with a suitable stabilizer to produce a stabilized base or subbase. The remaining structure must then be placed. Mix designs for the various stabilizers must be used to determine the appropriate stabilizer content and to predict the properties of the resulting materials. These properties can then be used in the structural design process. Reference 9 describes this process in some detail.

This process can be used to correct practically any problem in the pavement. It is basically a process of reconstruction using the existing materials as a part of the reconstructed pavement. It works particularly well in low volume roads with severe block or alligator cracking. Additional layers will need to be added if the pavement is structurally inadequate.

7. Carpenter, S.H., M.I. Darter, and B.J. Dempsey, "A Pavement Moisture Accelerated Distress Identification System," Users Manual - Volume 2, Research Report FHWA/RD-81/080, Federal Highway Administration, Washington, DC, 1981.
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Table 1. Candidate Repair and Preventive Methods for Rigid Pavement Distress (After Ref. 20).

| Joint/Crack Distress    | Repair Methods                                  | Preventive Methods                                                                                          |
|-------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Pumping                 | 1. Subseal                                      | 1. Reseal Joints<br>2. Restore Load* Transfer<br>3. Subdrainage<br>4. Edge Support (PCC Shoulder/Edge Beam) |
| Faulting                | 1. Grind<br>2. Structural Overlay               | 1. Subseal<br>2. Reseal Joints<br>3. Restore Load* Transfer<br>4. Subdrainage<br>5. Edge Support            |
| Slab Cracking           | 1. Full-Depth Repair<br>2. Replace/Recycle Lane | 1. Subseal Loss of Support<br>2. Restore Load Transfer<br>3. Structural Overlay                             |
| Joint or Crack Spalling | 1. Full-Depth Repair<br>2. Partial-Depth Repair | 1. Reseal Joints                                                                                            |
| Blowup                  | 1. Full-Depth Repair                            | 1. Pressure Relief Joint<br>2. Resealing Joints/Cracks                                                      |
| Punchouts               | 1. Full-Depth Repair                            | 1. Polymer or epoxy grouting<br>2. Subseal loss of support<br>3. Rigid Shoulders                            |

# Road Section Description Report

| STREET ID: | SECTION ID: | STREET NAME:     | BEGINNING LOCATION:  | ENDING LOCATION:     | LENGTH: | WID TH: | AREA SEC: | F LA | SUR TYP | YR CON | PCI | GEN AREA COD | ADT  |
|------------|-------------|------------------|----------------------|----------------------|---------|---------|-----------|------|---------|--------|-----|--------------|------|
| CHEMAY     | 619A        | CHEMAY RD NE     | 24-RIVER RD          | 7325-7TH AV          | 811     | 46      | 37306     | A    | 4       | O      | 88  | 59           |      |
| CHEMAY     | 619B        | CHEMAY RD NE     | 7325-7TH AV          | 703-VERDA LN         | 2862    | 25      | 71550     | A    | 2       | O      | 91  | 86           |      |
| CHEMAY     | 619C        | CHEMAY RD NE     | 703-VERDA LN         | 616-LOCKHAVEN        | 4169    | 34      | 141746    | A    | 2       | O      | 91  | 86           |      |
| CHEMAY     | 619D        | CHEMAY RD NE     | 616-LOCKHAVEN        | EC/L                 | 1240    | 65      | 80600     | A    | 4       | A      | 93  | 100          |      |
| CHEMAY     | 63          | CHEMAY RD N      | 63-WINDSOR ISLAND RD | 24-RIVER RD N        | 3561    | 34      | 121074    | A    | 2       | O      | 93  | 100          |      |
| CHERRY     | 705A        | CHERRY AV NE     | 7710-PLYMOUTH DR     | 7248-MANBRIN DR      | 4455    | 24      | 106820    | A    | 2       | O      | 74  | 80           |      |
| CHERRY     | 705B        | CHERRY AV NE     | 7248-MANBRIN DR      | 7350-GREENWOOD DR    | 720     | 22      | 15840     | A    | 2       | O      | 74  | 46           |      |
| LOCKHA     | 616A        | LOCKHAVEN DR N   | 63-WINDSOR ISLAND RD | 7326-JOAN DR         | 1607    | 24      | 38568     | A    | 2       | O      | 89  | 89           |      |
| LOCKHA     | 616B        | LOCKHAVEN DR N   | 7326-JOAN DR         | 24-RIVER RD          | 3570    | 47      | 167790    | A    | 2       | A      | 88  | 77           |      |
| LOCKHA     | 616C        | LOCKHAVEN DR NE  | 24-RIVER RD          | 621-14TH AV          | 3168    | 40      | 126720    | A    | 2       | O      | 91  | 86           | 2177 |
| LOCKHA     | 616D        | LOCKHAVEN DR NE  | 6219-14TH AV         | 6101-MCLEOD LN       | 1682    | 40      | 67280     | A    | 3       | O      | 91  | 86           | 2806 |
| LOCKHA     | 616E        | LOCKHAVEN DR NE  | 6101-MCLEOD LN       | 619-CHEMAY RD        | 995     | 24      | 23880     | A    | 2       | A      | 69  | 38           |      |
| MANBRI     | 7248B       | MANBRIN DR NE    | 24-RIVER RD          | 705-CHERRY AV        | 254     | 58      | 14732     | A    | 5       | O      | 84  | 79           | C    |
| RADIAM     | 6103        | RADIANT DR NE    | 619 - CHEMAY RD      | END KEIZER CL        | 5129    | 18      | 92322     | A    | 2       | A      | 72  | 42           |      |
| RIVER      | 24A         | RIVER RD N       | SC/L                 | 7248-MANBRIN DR      | 4608    | 60      | 276480    | A    | 5       | A      | 77  | 63           | C    |
| RIVER      | 24B         | RIVER RD N       | 7248-MANBRIN DR      | 619-CHEMAY RD        | 3698    | 60      | 221880    | A    | 5       | O      | 74  | 56           | C    |
| RIVER      | 24C         | RIVER RD N       | 619-CHEMAY RD        | 616-LOCKHAVEN DR     | 2793    | 68      | 188924    | A    | 5       | O      | 87  | 67           | C    |
| RIVER      | 24D         | RIVER RD N       | 616-LOCKHAVEN DR     | 6287-SWINGWOOD DR    | 3088    | 88      | 210664    | A    | 5       | A      | 68  | 49           | C    |
| RIVER      | 36          | RIVER RD N       | 6287 SWINGWOOD DR    | NCL                  | 6165    | 24      | 147860    | A    | 2       | A      | 76  | 65           |      |
| VERDA      | 700A        | VERDA LN NE      | S-C/L                | 703-CLAXTER RD       | 1286    | 26      | 32916     | A    | 2       | A      | 82  | 67           | C    |
| VERDA      | 703B        | VERDA LN NE      | CLAXTER RD           | DEARBORN RD          | 2451    | 24      | 58824     | A    | 2       | O      | 91  | 87           |      |
| VERDA      | 703B1       | VERDA LN NE      | DEARBORN RD AV       | CHEMAY RD            | 1105    | 23      | 25415     | A    | 2       | A      | 70  | 34           |      |
| WHEATL     | 24A         | WHEATLAND RD NE  | 36-NORTH RIVER RD    | 7693 WHEATLAND RD    | 7540    | 32      | 241280    | A    | 2       | A      | 77  | 53           |      |
| WHEATL     | 24B         | WHEATLAND RD NE  | 7693 WHEATLAND RD    | N-C/L                | 2546    | 32      | 81472     | A    | 2       | A      | 77  | 47           |      |
| CHEMAY     | 701A        | CHEMAY RD N      | W CITY LIMITS        | 7566 15TH AVE N      | 970     | 21      | 20370     | C    | 2       | A      | 83  | 74           |      |
| CHEMAY     | 701B        | CHEMAY RD N      | 7566-15TH AV         | 13TH AVE NE          | 1123    | 23      | 25829     | C    | 2       | O      | 77  | 41           |      |
| CHEMAY     | 701C        | CHEMAY RD N      | 13TH AVE NE          | 7532-FOUR WINDS DR   | 950     | 41      | 38950     | C    | 2       | A      | 93  | 100          |      |
| CHEMAY     | 701D        | CHEMAY RD N      | 7532-FOUR WINDS DR   | 63-WINDSOR ISLAND RD | 438     | 48      | 21024     | C    | 2       | A      | 93  | 73           |      |
| CLEARL     | 613         | CLEAR LAKE RD NE | 24 WHEATLAND RD      | CL                   | 3366    | 19      | 63764     | C    | 2       | O      | 92  | 100          |      |
| DEARBO     | 711D        | DEARBORN AV NE   | 24-RIVER RD          | 703-VERDA LN         | 3776    | 24      | 90624     | C    | 2       | O      | 90  | 83           |      |
| DIETZ      | 7207        | DIETZ AV NE      | 24-RIVER RD          | 7337-CLARK AV        | 1316    | 23      | 30268     | C    | 2       | A      | 93  | 100          |      |

# Keizer Public Works Road - Section Description Report

| STREET ID | SECTION ID | STREET NAME         | BEGINNING LOCATION      | ENDING LOCATION         | LENGTH: -TH | AREA SEC: F | SUR LA TYP | YR CON | GEN PCI | AREA COD | ADT |
|-----------|------------|---------------------|-------------------------|-------------------------|-------------|-------------|------------|--------|---------|----------|-----|
| HARMON    | 618A       | HARMONY DR NE       | 24 TRAIL AVE            | 6219 14TH AVE           | 1432        | 20          | 28640      | C 2    | O 89    | 82       |     |
|           |            | KEIZER RD NE        | 703-VERDA LN            | 702A-RIDGE DR           | 1868        | 22          | 41096      | C 2    | A 74    | 56       |     |
| NOTTN     | 6232       | NOTTIGHAM DR NE     | 24 WHEATLAND RD         | 36 RIVER RD             | 2369        | 34          | 80206      | C 2    | A 93    | 100      | CG  |
| RICKMA    | 7212       | RICKMAN RD NE       | 711-DEARBORN AV         | 619-CHEMAWA RD          | 1265        | 21          | 26355      | C 2    | O 94    | 100      |     |
| RIDGE     | 702A       | RIDGE DR NE         | 702-KEIZER RD           | BALL FLD ENTD           | 1892        | 32          | 45408      | C 2    | A 83    | 60       |     |
| RIDGE     | 702B       | RIDGE DR NE         | BALL FLD ENT            | 619-CHEMAWA RD          | 1529        | 25          | 38225      | C 2    | O 88    | 83       |     |
| RIVERC    | 7245D      | RIVERCREST DR N     | 7251-SUNSET AV          | 7250-WAYNE DR           | 692         | 25          | 17300      | C 2    | O 84    | 63       |     |
| SHOREL    | 7246A      | SHORELINE DR N      | 7250-WAYNE DR           | 706-CUMMINGS LN         | 1386        | 30          | 41580      | C 2    | A 76    | 69       | C   |
| SHOREL    | 7246B      | SHORELINE DR N      | 706-CUMMINGS            | 63-CHEMAWA              | 2853        | 36          | 102708     | C 2    | O 90    | 81       | C   |
| SUNSET    | 7251       | SUNSET AV N         | 7245-RIVERCREST DR      | 24-RIVER RD             | 2047        | 21          | 42987      | C 2    | O 84    | 73       |     |
| THORMA    | 7338A      | THORMAN AV NE       | 7285-BROOKS ST          | HSE #4670 THORMAN       | 804         | 34          | 27336      | C 2    | O 90    | 66       | C   |
| THORMA    | 7338B      | THORMAN AV NE       | HSE #4570 THORMAN       | 711-DEARBORN ST         | 1326        | 21          | 27846      | C 2    | O 90    | 90       |     |
| TRAIL     | 24A        | TRAIL AVE NE        | 616 LOCKHAVEN DR        | 616-HARMONY DR          | 1180        | 32          | 37780      | C 2    | O 92    | 100      |     |
| TRAIL     | 24B        | TRAIL AV NE         | 616-HARMONY DR          | MANZANITA ST            | 1560        | 23          | 35650      | C 2    | O 87    | 64       |     |
| WAYNE     | 7250A      | WAYNE DR N          | 7246-SHORELINE DR       | 7245-RIVERCREST DR      | 315         | 30          | 9450       | C 2    | O 91    | 90       | C   |
| WINDSO    | 63A        | WINDSOR ISLAND DR N | 63-CHEMAWA RD           | WILDWOOD VILLA MOBIL CT | 3104        | 28          | 86912      | C 2    | O 90    | 82       |     |
| WINDSO    | 63B        | WINDSOR ISLAND DR N | WILDWOOD VILLA MOBIL PA | NCL                     | 2775        | 21          | 58275      | C 2    | A 93    | 100      |     |
|           | 6240       | 10TH AV NE          | 619-CHEMAWA RD          | 6271-CLAGGETT ST        | 1292        | 34          | 43928      | R 2    | A 87    | 64       | C   |
| 10THPL    | 7415       | 10TH PL N           | 7289-RAFAEL AV          | DEAD END                | 792         | 34          | 26568      | R 2    | A 94    | 100      | C   |
| 11THAV    | 6208       | 11TH AVE NE         | 6207-MARIGOLD ST NE     | 6206-MANZANITA WAY      | 460         | 34          | 15840      | R 2    | O 92    | 100      |     |
| 12AV      | 6223       | 12TH AVE NE         | S DEAD END              | N DEAD END (OFF MANDARI | 364         | 34          | 12376      | R 2    | A 76    | 62       | C   |
| 12THAV    | 7356       | 12TH AVE NE         | END PYMNT               | 711-DEARBORN AV         | 886         | 34          | 30124      | R 2    | O 88    | 87       | C   |
| 12THAV    | 7452       | 12TH AV N           | 7286-VENTURA AV         | DEAD END                | 111         | 34          | 3774       | R 2    | A 1     | 66       | C   |
| 13THAV    | 6209       | 13TH AVE NE         | 6207-MARIGOLD ST        | 6206-MANZANITA WAY      | 545         | 34          | 18530      | R 2    | O 92    | 100      | C   |
| 13THAV    | 7357       | 13TH AV NE          | 7356-12TH AV            | 619-CHEMAWA RD          | 2220        | 34          | 75481      | R 2    | O 89    | 87       | C   |
| 13THAV    | 7361       | 13TH AV N           | 7289-RAFAEL AV          | 701-CHEMAWA RD          | 1670        | 34          | 56780      | R 2    | A 81    | 78       | C   |
| 14THAV    | 6219A      | 14TH AVE NE         | 616 LOCKHAVEN DR        | 616 HARMONY LN          | 245         | 40          | 9800       | R 3    | A 86    | 31       | C   |
| 14THAV    | 6219B      | 14TH AVE NE         | 616-HARMONY DR          | 6206-MANZANITA ST       | 2073        | 34          | 70482      | R 2    | O 85    | 65       | C   |
| 14THAV    | 6219C      | 14TH AV NE          | 6206-MANZANITA ST       | BPA EASEMENT            | 724         | 34          | 24616      | R 2    | A 67    | 38       | C   |
| 14THAV    | 6219D      | 14TH AV NE          | BPA EASEMENT            | 6405-ROCK LEDGE DR      | 1415        | 34          | 48110      | R 2    | A 76    | 59       | C   |
| 15THAV    | 7368A      | 15TH AV N           | 7289-RAFAEL AV          | 7617-JUNIPER ST         | 1150        | 34          | 39100      | R 2    | A 76    | 68       | CG  |



# Rekar Public Works Road Section Description Report

| STREET ID | SECTION ID | STREET NAME  | BEGINNING LOCATION | ENDING LOCATION     | LENGTH: -1H | WID SEC: F | AREA LA TYP | SUR YR CON | GEN AREA COD | ADT |
|-----------|------------|--------------|--------------------|---------------------|-------------|------------|-------------|------------|--------------|-----|
| 15THAV    | 7368B      | 15TH AV N    | 701-CHEMAYA RD     | WILLOW LAKE RD N    | 878         | 34         | 33286 R 2 A | 90 89      | CG           |     |
| 15THCT    | 6216       | 15TH CT NE   | CUL-DE-SAC         | 6217-KINGLET WAY    | 433         | 30         | 12980 R 2 O | 92 100     | C            |     |
| 16THCT    | 6215       | 16TH CT NE   | CUL-DE-SAC         | 6217-KINGLET WY     | 194         | 30         | 5820 R 2 O  | 92 100     | C            |     |
| 17THAV    | 7387       | 17TH AV NE   | 6207-MARIGOLD ST   | 6208-MANZANITA ST   | 225         | 34         | 7650 R 2 O  | 92 100     | C            |     |
| 18THAV    | 7308A      | 18TH AV NE   | 703-VERBA LN       | 7303-CHELAN ST      | 1021        | 34         | 34714 R 2 A | 94 100     | C            |     |
| 18THAV    | 7308B      | 18TH AV NE   | 7303-CHELAN ST     | BRANDON AVE NE      | 614         | 34         | 20876 R 2 O | 89 81      | C            |     |
| 18THAV    | 7308C      | 18TH AV NE   | BRANDON AVE NE     | DEARBORN AVE NE     | 280         | 34         | 9520 R 2 A  | 94 100     | C            |     |
| 18THCT    | 7309       | 18TH CT NE   | CUL-DE-SAC         | 7307-NORTHVIEW DR   | 154         | 30         | 4620 R 2 O  | 89 77      | C            |     |
| 19THPL    | 7306A      | 19TH PL NE   | 7307-NORTHVIEW DR  | CHELAN AVE          | 345         | 34         | 11730 R 2 O | 89 77      | C            |     |
| 19THPL    | 7306B      | 19TH PL NE   | 7305-BRANDON AV    | 711-DEARBORN AV     | 345         | 34         | 11730 R 2 A | 94 100     |              |     |
| 151CT     | 6401       | 1ST CT N     | 6228 OTTER WAY     | CUL DE SAC          | 161         | 21         | 3361 R 2 A  | 89 83      |              |     |
| 2NDAV     | 7301       | 2ND AV N     | S/C                | WEEKS DR            | 596         | 34         | 20230 R 2 O | 85 70      | C            |     |
| 2NDAVE    | 6229       | 2ND AVE N    | 6228 OTTER WAY     | DEAD END            | 506         | 34         | 17204 R 2 A | 89 78      |              |     |
| 3RDAV     | 7392       | 3RD AVE N    | HOLLYHOCK PL N     | DENNIS LN           | 1010        | 34         | 34340 R 2 O | 91 83      | C            |     |
| 4THPL     | 7314       | 4TH PL N     | 7316-CHEMAYA WY    | 6213-SANDY DR       | 627         | 34         | 21318 R 2 O | 91 90      | C            |     |
| 4THPL     | 7314B      | 4TH PL N     | 708-CUMMINGS LN    | 7658-JUEDES AV      | 482         | 20         | 9240 R 2 O  | 91 95      |              |     |
| 5THAV     | 7257A      | 5TH AV N     | DEAD END           | HONEYSUCKLE ST      | 860         | 34         | 28240 R 2 O | 87 82      | C            |     |
| 5THAV     | 7257A1     | 5TH AV N     | HONEYSUCKLE ST     | DENNIS LN           | 284         | 34         | 9656 R 2 O  | 91 96      | C            |     |
| 5THAV     | 7257B      | 5TH AV N     | 7259-DENNIS LN     | 7251-SUNSET AV      | 406         | 20         | 8120 R 2 O  | 91 95      |              |     |
| 5THAVE    | K7257      | 5TH AVE N    | FALL CREEK DR      | END OF OLD PAVEMENT | 112         | 34         | 3808 R 2 A  | 92         | CG           |     |
| 6THAV     | 7259       | 6THAV NE     | 7216-JAMES ST      | DEAD END            | 408         | 22         | 8976 R 2 O  | 84 71      |              |     |
| 7THAV     | 7355A      | 7TH AV NE    | 619-CHEMAYA RD     | 6271-CLAGGETT ST    | 1293        | 34         | 43982 R 2 O | 89 84      | C            |     |
| 7THAV     | 7325B      | 7TH AV NE    | 6271-CLAGGETT ST   | 6205-FAYMAR DR      | 665         | 34         | 22610 R 2 O | 88 83      | C            |     |
| 8THAV     | 6240A      | 8TH AV NE    | 619-CHEMAYA RD     | 7315-KESTREL ST     | 653         | 20         | 11754 R 2 O | 90 95      | C            |     |
| 8THAV     | 6240B      | 8TH AV NE    | 7315-KESTREL ST    | 6271-CLAGGETT ST    | 637         | 34         | 21656 R 2 O | 90 95      | C            |     |
| 8THCT     | 6233       | 8TH CT NE    | CUL-DE-SAC         | 6232 NOTTINGHAM DR  | 325         | 30         | 9750 R 2 A  | 93 100     | C            |     |
| 9THCT     | 6234       | 9TH CT NE    | CUL-DE-SAC         | 6234 NOTTINGHAM DR  | 295         | 30         | 8850 R 2 A  | 93 100     | C            |     |
| ADAMCT    | 7711       | ADAM CT NE   | CUL-DE-SAC         | 7249-MANBRIN DR     | 340         | 34         | 11560 R 2 A | 84 77      | C            |     |
| ALDER     | 7224       | ALDER DR NE  | 705-CHERRY AV      | 7229-GARY ST        | 2339        | 21         | 48119 R 2 O | 84 78      |              |     |
| ALDINE    | 6280       | ALDINE DR NE | MCLEOD LN          | ALDINE CT           | 805         | 34         | 27370 R 2 A | 94 100     | C            |     |
| ALDINE    | 6280A      | ALDINE CT NE | ALDINE DR          | CUL-DE-SAC          | 453         | 34         | 15402 R 2 A | 94 100     | C            |     |

# Road Section Description Report

| STREET ID | SECTION ID | STREET NAME         | BEGINNING LOCATION   | ENDING LOCATION          | LENGTH | THD | AREA  | SUR | YR | GEN | AREA |     |     |
|-----------|------------|---------------------|----------------------|--------------------------|--------|-----|-------|-----|----|-----|------|-----|-----|
|           |            |                     |                      |                          |        |     |       | F   | LA | TYP | CON  | PCI | ADT |
| ALDRID    | 6443       | ALDRIDGE DR N       | WHEATLAND RD         | DEAD END                 | 904    | 34  | 30736 | R   | 2  | A   | 92   |     | CG  |
| ALLEND    | 6270       | ALLENDALE WAY NE    | SW DEAD END          | E DEAD END (OFF HASBROOK | 1274   | 34  | 43316 | R   | 2  | O   | 90   | 87  | C   |
| ALLAN     | K7323      | ALLIANCE CT. NE.    | NORTHSIDE DR.        | CUL-DE-SAC               | 145    | 27  | 3915  | R   | 2  | A   | 94   |     | CG  |
| AMYCT     | 62848      | AMY CT NE           | 6405 - ROCK LEDGE DR | CUL-DE-SAC               | 400    | 34  | 13600 | R   | 2  | A   | 89   | 77  | C   |
| AMYN LN   | 62844      | AMY LN NE           | 6282 - STONEHEDGE DR | 6405 - ROCK LEDGE DR     | 930    | 34  | 31620 | R   | 2  | A   | 87   | 76  | C   |
| APPLE     | 7713       | APPLE CT NE         | CUL-DE-SAC           | 7249-MANBRIN DR          | 123    | 34  | 4182  | R   | 2  | A   | 62   | 80  |     |
| APPLEB    | 7293A      | APPLEBLOSSOM AV N   | 7292-WILLAMETTE DR   | 24-RIVER RD              | 1892   | 34  | 64328 | R   | 2  | O   | 90   | 79  | C   |
| APPLEB    | 7293B      | APPLEBLOSSOM DR NE  | 24-RIVER RD          | 7345-POTTS DR            | 841    | 33  | 27753 | R   | 2  | O   | 90   | 86  | C   |
| ARBORD    | 8324       | ARBORDALE DR SE     | 62ND AVE             | CUL-DE-SAC               | 1108   | 20  | 22160 | R   | 2  | A   | 87   |     | 0   |
| ARBORW    | K6485      | ARBORWOOD CT NE     | HORIZON RIDGE DR     | CUL D SAC                | 252    | 27  | 6804  | R   | 2  | A   | 94   |     | CG  |
| ARCADE    | 6237       | ARCADE CT NE        | LARCHWOOD ST         | CUL-DE-SAC               | 138    | 34  | 4692  | R   | 2  | A   | 94   | 100 | C   |
| ARCADE    | 6237A      | ARCADE AVE NE       | 619-CHEMAWA RD       | 8214-KALIMA DR           | 904    | 34  | 30736 | R   | 2  | A   | 88   | 76  | C   |
| ARCADE    | 6237B      | ARCADE AVE NE       | 8214-KALIMA DR       | LARCHWOOD ST             | 1428   | 34  | 48586 | R   | 2  | A   | 70   | 54  | C   |
| ARLETA    | K7721      | ARLETA PL NE        | WEST DEAD END        | NORTH DEAD END (OFF 6TH  | 907    | 30  | 27210 | R   | 2  | A   | 94   | 100 | C   |
| ARNOLD    | 7368       | ARNOLD ST NE        | 7391-BEEBE ST        | 7350-GREENWOOD DR        | 1666   | 34  | 56712 | R   | 2  | O   | 90   | 88  | C   |
| ARROW     | K6481      | ARROW POINT CT NE   | COUNTRY GLEN AVE     | CUL D SAC                | 186    | 27  | 4995  | R   | 2  | A   | 94   |     | CG  |
| AUTUMN    | 6434       | AUTUMN LEAF CT N    | WILLOW LAKE RD N     | CUL-DE-SAC               | 420    | 34  | 14280 | R   | 2  | A   | 91   |     | CG  |
| BALEY     | 7337A      | BALEY RD NE         | 711-DEARBORN AVE     | 619-CHEMAWA RD           | 1254   | 23  | 28842 | R   | 2  | O   | 89   | 84  |     |
| BALEY     | 7337B      | BALEY RD NE         | 619-CHEMAWA RD       | DEAD END                 | 613    | 22  | 13466 | R   | 2  | O   | 92   | 100 |     |
| BARNIC    | 614        | BARNICK RD NE       | WOTHERSPOON DR       | 614 ONEIL-BAKER RD       | 1234   | 16  | 19744 | R   | 2  | A   | 80   | 39  |     |
| BATTIN    | 7369       | BATTING ST NE       | SIEBERG ST           | 7252-LEO ST              | 644    | 34  | 21896 | R   | 2  | A   | 64   | 51  |     |
| BEEBE     | 7391       | BEEBE ST NE         | 7228-GARY ST         | 7368-ARNOLD ST           | 264    | 27  | 7128  | R   | 2  | O   | 90   | 87  |     |
| BENTGR    | K6461      | BENT GRASS CT NE    | PINEVIEW ST.         | CUL-DE-SAC               | 648    | 31  | 20098 | R   | 2  | A   | 94   |     | CG  |
| BEYER     | 7330       | BEYER DR NE         | 24-RIVER RD          | 706-CHERRY AV            | 874    | 22  | 19228 | R   | 2  | O   | 88   | 84  | C   |
| BINGTR    | 62632      | BING TREE CT NE     | 6261-NORTHTREE DR    | CUL-DE-SAC               | 365    | 34  | 12410 | R   | 2  | A   | 94   | 100 | C   |
| BIRCH     | 7627       | BIRCH AV N          | 7249-MANBRIN DR      | N DEAD END               | 839    | 30  | 26170 | R   | 2  | A   | 78   | 33  | C   |
| BIRCHW    | 6305       | BIRCHWOOD CT NE     | S-CUL-DE-SAC         | N-CUL-DE-SAC (OFF RUSSET | 1440   | 34  | 46960 | R   | 2  | A   | 73   | 80  | C   |
| BLARNE    | 6288       | BLARNEY STONE CT NE | CUL-DE-SAC           | 6284 - AMY LN            | 170    | 34  | 5780  | R   | 2  | A   | 80   | 69  | C   |
| BOARDW    | K6484      | BOARDWALK AVE NE    | SHADOWWOOD ST        | EVERWOOD ST              | 743    | 31  | 23033 | R   | 2  | A   | 94   |     | CG  |
| BOBBIE    | 6421       | BOBBIE CT N         | 6415-WILLOW LAKE RD  | CUL-DE-SAC               | 412    | 34  | 14008 | R   | 2  | A   | 89   | 85  | CG  |
| BOLIN     | 7483       | BOIN CT N           | CUL-DE-SAC           | 7482-GLYNBROOK CT        | 125    | 32  | 4000  | R   | 2  | O   | 91   | 95  | C   |

# Kelzi Public Works Road Section Description Report

| STREET ID. | SECTION ID. | STREET NAME        | BEGINNING LOCATION | ENDING LOCATION         | LENGTH | WID  | AREA  | SUR | YR. | GEN |     |     |     |     |
|------------|-------------|--------------------|--------------------|-------------------------|--------|------|-------|-----|-----|-----|-----|-----|-----|-----|
|            |             |                    |                    |                         | -TH    | SEC. | F     | LA  | TYP | CON | PCI | COD | ID. | ADT |
| BONDCT     | K7324       | BOND CT. NE.       | NORTHSIDE DR.      | CUL-DE-SAC              | 120    | 27   | 3240  | R   | 2   | A   | 94  |     | CG  |     |
| BRANDNO    | 7305        | BRANDON AV NE      | 7308-18TH AV       | 7306-19TH PL            | 662    | 30   | 19860 | R   | 2   | A   | 94  | 100 | C   |     |
| BRANDNO    | 7709        | BRANDON ST NE      | DEAD END           | 7306-12TH AV            | 103    | 34   | 3502  | R   | 2   | A   | 94  | 100 |     |     |
| BRIGHT     | 7645        | BRIGHT CT NE       | 7285-BROOKS ST     | CUL-DE-SAC              | 134    | 34   | 4556  | R   | 2   | A   | 80  | 74  | C   |     |
| BROOKS     | 7285A       | BROOKS ST NE       | 7227-CANDLEWOOD DR | 7390-SANDY LN           | 672    | 21   | 14112 | R   | 2   | A   | 66  | 69  |     |     |
| BROOKS     | 7285B       | BROOKS ST NE       | 7360-SHADY LN      | 7224-ALDER DR           | 1765   | 34   | 60010 | R   | 2   | O   | 85  | 69  | C   |     |
| BROOKS     | 7285C       | BROOKS ST NE       | 7224-ALDER DR      | 7248-MANBRIN DR         | 1418   | 34   | 48212 | R   | 2   | O   | 92  | 100 | C   |     |
| BUCHOL     | 6302        | BUCHHOLZ CT N      | 6289-BUNDY AV      | CUL-DE-SAC              | 225    | 34   | 7650  | R   | 2   | A   | 83  | 77  |     |     |
| BUNDYA     | 6289        | BUNDY AV N         | DEAD END           | 6286-CYNTIA ST          | 580    | 34   | 20080 | R   | 2   | A   | 80  | 74  |     |     |
| BUNDYC     | 6303        | BUNDY CT N         | CUL-DE-SAC         | 6289-BUNDY AV           | 220    | 34   | 7480  | R   | 2   | A   | 1   | 77  | C   |     |
| CANDLE     | 7227        | CANDLEWOOD DR NE   | 705-CHERRY AV      | 7285-BROOKS ST          | 2215   | 21   | 46515 | R   | 2   | O   | 84  | 77  |     |     |
| CANEBE     | K6459       | CANEBERRY CT NE    | PARKMEADOW DR.     | CUL-DE-SAC              | 420    | 31   | 13020 | R   | 2   | A   | 94  |     | CG  |     |
| CARLO      | 6247        | CARLOR CT NE       | 6214-KALMIA DR     | CUL-DE-SAC              | 486    | 34   | 16524 | R   | 2   | A   | 94  | 100 | C   |     |
| CARMEN     | 7287        | CARMEN AV N        | 711-DEARBORN AV    | 7286-VENTURA ST         | 423    | 34   | 14382 | R   | 2   | O   | 89  | 82  | C   |     |
| CATER      | K6490       | CATER DR NE        | WHEATLAND RD       | PARKPLACE DR            | 656    | 31   | 20336 | R   | 2   | A   | 94  |     | CG  |     |
| CATER      | K6491       | CATER CT NE        | PARKPLACE DR       | CUL D SAC               | 558    | 31   | 17298 | R   | 2   | A   | 94  |     | CG  |     |
| CEDAR      | 7626        | CEDAR AV N         | 7249-MANBRIN DR    | N DEAD END              | 825    | 30   | 24750 | R   | 2   | O   | 92  | 100 | C   |     |
| CEDARB     | K6466       | CEDAR BLUFF LOOP N | WHEATLAND RD.      | END OF LOOP (C)BLUFF AT | 1212   | 31   | 37572 | R   | 2   | A   | 94  |     | CG  |     |
| CEDARF     | K6501       | CEDAR FALLS CT NE  | SPRINGRIDGE DR     | CUL D SAC               | 330    | 31   | 10230 | R   | 2   | A   | 94  |     | CG  |     |
| CHEHA      | 6277P       | CHEHAUS PL N       | CUL-DE-SAC         | CUL-DE-SAC (OFF CHEHAUS | 423    | 31   | 13113 | R   | 2   | A   | 76  | 87  | C   |     |
| CHEHAL     | 6277        | CHEHAUS DR N       | HSE #5397 CHEHAUS  | 616-LOCKHAVEN           | 336    | 34   | 11424 | R   | 2   | A   | 76  | 74  |     |     |
| CHEHAL     | 7219        | CHEHAUS DR N       | 83-CHEMAMA RD      | HSE #5397 CHEHAUS       | 2122   | 24   | 50928 | R   | 2   | O   | 88  | 84  |     |     |
| CHEHAL     | 7448        | CHEHAUS CT N       | CUL-DE-SAC         | 63-CHEMAMA RD           | 619    | 33   | 20427 | R   | 2   | A   | 60  | 80  | C   |     |
| CHELAN     | 7303        | CHELAN ST NE       | 703-VERDA LN       | 7306-19TH PL            | 1247   | 34   | 42388 | R   | 2   | O   | 89  | 73  | C   |     |
| CHEMANV    | 7316        | CHEMANVA WY N      | 7314-4TH PL        | 7313-ELIZABETH ST       | 318    | 34   | 10612 | R   | 2   | O   | 89  | 81  | C   |     |
| CHERRY     | 7610        | CHERRYLAWN CT NE   | 7227-CANDLEWOOD DR | CUL-DE-SAC              | 225    | 22   | 4950  | R   | 2   | A   | 79  | 82  | C   |     |
| CHEETO     | 6286        | CHEETO CT NE       | CUL-DE-SAC         | 619-CHEMAMA RD          | 668    | 34   | 22712 | R   | 2   | A   | 94  | 100 | C   |     |
| CHURCH     | 7343        | CHURCHDALE AV N    | 7122-DELIGHT AV    | 24-RIVER RD             | 1787   | 21   | 37527 | R   | 2   | A   | 66  | 84  |     |     |
| CLAGGE     | 6271        | CLAGGETT ST NE     | 24-RIVER RD        | 6240-10TH AV            | 1982   | 34   | 66708 | R   | 2   | A   | 71  | 56  | C   |     |
| CLARK      | 7337        | CLARK AV NE        | 7341-1VY WAY       | 711-DEARBORN AV         | 1458   | 22   | 32076 | R   | 2   | O   | 76  | 86  |     |     |
| CLAYTE     | 703         | CLAYTER RD NE      | 703-VERDA LN       | CUL-DE-SAC              | 724    | 23   | 16652 | R   | 2   | O   | 77  | 59  |     |     |

# Kelkar Institute of Technology Road Section Description Report

| STREET ID | SECTION ID | STREET NAME         | BEGINNING LOCATION  | ENDING LOCATION      | WID  | AREA | SUR   | YR. | GEN |     |     |     |    |     |
|-----------|------------|---------------------|---------------------|----------------------|------|------|-------|-----|-----|-----|-----|-----|----|-----|
|           |            |                     |                     |                      | TH   | SEC  | F     | LA  | TYP | CON | PCI | COD | ID | ADT |
| CLEARV    | 7221       | CLEARVIEW AV NE     | 705-CHERRY AV       | 7285-BROOKS ST       | 1909 | 21   | 40089 | R   | 2   | O   | 85  | 81  |    |     |
| CLEARV    | 7559       | CLEARVIEW CT NE     | CUL-DE-SAC          | 7221-CLEARVIEW AV    | 259  | 30   | 7770  | R   | 2   | A   | 73  | 83  |    |     |
| COUNTR    | K6479      | COUNTRY GLEN AVE NE | RIVER RD N          | HORIZON RIDGE DR     | 1893 | 31   | 52483 | R   | 2   | A   | 94  | CG  |    |     |
| CRANBE    | 7480       | CHAMBERRY CT NE     | CUL-DE-SAC          | 7512-HASBROOK        | 161  | 34   | 5474  | R   | 2   | O   | 90  | 87  | C  |     |
| CRATER    | 7288A      | CRATER AV N         | 7286-VENTURA ST     | HSE #4868 CRATER AVE | 254  | 30   | 7620  | R   | 2   | O   | 91  | 86  | C  |     |
| CRATER    | 7288B      | CRATER AV N         | HSE #4868 CRATER AV | 63-CHEMAMA RD N      | 875  | 20   | 13500 | R   | 2   | A   | 79  | 80  |    |     |
| CRESTW    | 6279       | CRESTWOOD CT NE     | 616 LOCKHAVEN DR    | CUL-DE-SAC           | 390  | 34   | 13260 | R   | 2   | A   | 83  | 78  | C  |     |
| CUMMIN    | 706A       | CUMMINGS LN N       | W END-CITY PARK     | 7246-SHORELINE DR    | 596  | 18   | 10728 | R   | 2   | O   | 92  | 100 |    |     |
| CUMMIN    | 706B       | CUMMINGS LN N       | 7246-SHORELINE DR   | 24-RIVER RD          | 2712 | 22   | 59664 | R   | 2   | O   | 81  | 63  |    |     |
| CYNCT     | 6286       | CYNTHIA CT N        | CUL-DE-SAC          | 6297-STEVEN AV       | 411  | 34   | 13974 | R   | 2   | A   | 84  | 78  |    |     |
| CYNCT     | 6286       | CYNTHIA ST N        | 6297-STEVEN AV      | 7236-JOAN DR         | 1063 | 34   | 36142 | R   | 2   | A   | 83  | 82  |    |     |
| DAWNCT    | 6300       | DAWN CT N           | CUL-DE-SAC          | 6286-CYNTHIA ST      | 210  | 34   | 7140  | R   | 2   | A   | 80  | 47  |    |     |
| DEARBO    | 711A       | DEARBORN AV N       | 7286-VENTURA AV     | 7246-SHORELINE DR    | 500  | 28   | 14000 | R   | 2   | A   | 64  | 51  | C  |     |
| DEARBO    | 711B       | DEARBORN AV N       | 7246-SHORELINE DR   | 7122-DELIGHT AV      | 1360 | 34   | 46240 | R   | 2   | O   | 75  | 77  | C  |     |
| DEARBO    | 711C       | DEARBORN AV N       | 7122-DELIGHT AV     | 24-RIVER RD          | 1796 | 22   | 39512 | R   | 2   | O   | 84  | 71  |    |     |
| DEARBO    | 711E       | DEARBORN AV NE      | 703-VERDA LN        | 7308-GOEBERT         | 525  | 34   | 17850 | R   | 2   | O   | 75  | 54  | C  |     |
| DEARBO    | 711F       | DEARBORN AV NE      | 7308-GOEBERT        | 7306-19TH PL         | 707  | 30   | 21210 | R   | 2   | O   | 94  | 100 | C  |     |
| DEECT     | 6301       | DDE CT N            | CUL-DE-SAC          | 6286-CYNTHIA ST      | 212  | 34   | 7208  | R   | 2   | A   | 80  | 70  |    |     |
| DELGH     | 7122A      | DELIGHT AV N        | 7248-MENLO DR       | 706-CUMMINGS LN      | 337  | 21   | 7077  | R   | 2   | A   | 80  | 60  |    |     |
| DELGH     | 7122B      | DELIGHT AV N        | 706-CUMMINGS LN     | 63-CHEMAMA RD        | 2829 | 22   | 57836 | R   | 2   | O   | 94  | 100 |    |     |
| DELTA     | K6455      | DELTA CT N          | WHEATLAND RD N      | CUL-DE-SAC           | 429  | 27   | 11563 | R   | 2   | A   | 93  | CG  |    |     |
| DELTA     | 6225       | DELTA DR NE         | 24-WHEATLAND RD     | DEAD END             | 980  | 34   | 33320 | R   | 2   | A   | 93  | 100 | C  |     |
| DENNIS    | 6294       | DENNIS RAY AVE      | 6101 MCLEOD LN      | DEAD END             | 454  | 34   | 15436 | R   | 2   | A   | 81  | 77  | C  |     |
| DENNIS    | 7286       | DENNIS LN N         | 7245-RIVERCREST DR  | 7392-3RD AV          | 1445 | 30   | 43350 | R   | 2   | O   | 88  | 84  | C  |     |
| DENNY     | 7486       | DENNY CT N          | CUL-DE-SAC          | 7482-GLYNBROOK ST    | 125  | 32   | 4000  | R   | 2   | O   | 91  | 95  | C  |     |
| DIXON     | 7705       | DIXON ST NE         | 703-VERDA LN        | 7707-NOREN AV        | 940  | 22   | 20680 | R   | 2   | O   | 89  | 87  |    |     |
| DONAHU    | 7641       | DONAHUE CT NE       | 7261-TROY ST        | CUL-DE-SAC           | 200  | 22   | 4400  | R   | 2   | A   | 69  | 74  | C  |     |
| DORCUS    | 7651       | DORCUS DR N         | 7230-JACK ST        | 7486-SANDRA AV       | 1317 | 34   | 44778 | R   | 2   | A   | 78  | 78  | C  |     |
| DRYSDA    | K6293      | DRYSDALE ST NE      | KOUFAX LN NE        | TEMP. DEAD END       | 78   | 34   | 2652  | R   | 2   | A   | 92  | 95  | CG |     |
| EASTW     | 7717       | EASTWIND CT N       | FOUR WINDS DR N     | CUL-DE-SAC           | 541  | 34   | 18394 | R   | 2   | A   | 89  | 83  | C  |     |
| ELIZAB    | 7313A      | ELIZABETH ST N      | 7271-EVANS ST       | 711-DEARBORN AV      | 473  | 20   | 8987  | R   | 2   | O   | 90  | 96  |    |     |

# Road Section Description Report

| STREET ID | SECTION ID | STREET NAME      | BEGINNING LOCATION       | ENDING LOCATION      | LENGTH | WID -TH | AREA SEC. | SUR F LA | YR TYP | CON | GEN PCI | AREA COD | ADT |
|-----------|------------|------------------|--------------------------|----------------------|--------|---------|-----------|----------|--------|-----|---------|----------|-----|
| ELIZAB    | 7313B      | ELIZABETH ST N   | 711-DEARBORN AV          | 63-CHEMAYAWA RD      | 1236   | 23      | 28428     | R        | 2      | O   | 89      | 87       |     |
| ELIZAB    | 7313C      | ELIZABETH ST N   | 63-CHEMAYAWA RD          | 7315-KESTRAL ST      | 662    | 34      | 22576     | R        | 2      | O   | 86      | 82       |     |
| ELVIRA    | 7704       | ELVIRA ST N      | 7271-EVANS ST            | 711-DEARBORN AV      | 476    | 16      | 7616      | R        | 2      | A   | 1       | 83       |     |
| ESPANA    | 7286       | ESPANA AV N      | 7416-10TH PL             | 7246-SHORELINE AV    | 629    | 30      | 10670     | R        | 2      | A   | 73      | 74       | C   |
| EUGENE    | 6248       | EUGENE CT NE     | 6214-KALIMA DR           | CUL-DE-SAC           | 484    | 34      | 16466     | R        | 2      | O   | 82      | 100      | C   |
| EVANSS    | 7291       | EVANS CT N       | 7286-VENTURA ST          | CUL-DE-SAC           | 126    | 30      | 37780     | R        | 2      | A   | 94      | 100      |     |
| EVANSS    | 7271A      | EVANS AV N       | 7286-VENTURA ST          | 7245-RIVERCREST DR   | 515    | 30      | 15450     | R        | 2      | A   | 94      | 100      |     |
| EVANSS    | 7271B      | EVANS AV N       | 7122-DELIGHT AV          | 24-RIVER RD          | 1818   | 20      | 36360     | R        | 2      | O   | 92      | 100      |     |
| EVECT     | 7712       | EVE CT NE        | CUL-DE-SAC               | 7246-MANBRIN         | 246    | 34      | 8330      | R        | 2      | A   | 60      | 48       |     |
| EVERW     | K6493      | EVERWOOD ST NE   | BOARDWALK AVE            | DEAD END             | 173    | 31      | 5363      | R        | 2      | A   | 94      |          | CG  |
| FALLCR    | K7238      | FALL CREEK DR N  | RIVER CREST DR           | SAIDRA AVE N         | 1362   | 34      | 47328     | R        | 2      | A   | 92      |          | CG  |
| FALLCR    | K7239      | FALL CREEK CT N  | FALL CREEK DR            | CUL-DE-SAC           | 125    | 34      | 4250      | R        | 2      | A   | 92      |          | CG  |
| FAYMAR    | 6205       | FAYMAR DR NE     | W-DEAD END (OFF 7TH AV)  | E-CUL-DE-SAC         | 1004   | 34      | 34136     | R        | 2      | A   | 79      | 86       | C   |
| FENNIC    | 6306       | FENNICK CT N     | S CUL DE SAC (OFF RUSSET | N CUL DE SAC         | 1270   | 34      | 43180     | R        | 2      | A   | 1       | 66       | C   |
| FIELDV    | 6427       | FIELD VIEW ST NE | RIDGE POINT ST           | PARKMEADOW DR.       | 1202   | 34      | 18190     | R        | 2      | A   | 90      | 87       | CG  |
| FILBER    | 7260       | FILBERT ST NE    | ALDER DR NE              | DEAD END             | 837    | 22      | 18414     | R        | 2      | O   | 89      | 84       |     |
| FIRCON    | 6403       | FIR CONE DR NE   | CUL-DE-SAC               | 36-RIVER RD          | 669    | 34      | 22746     | R        | 2      | A   | 89      | 85       | C   |
| FLAGST    | 6411       | FLAGSTONE CT NE  | CUL-DE-SAC               | 6412-STONEMASON LN   | 483    | 34      | 15742     | R        | 2      | A   | 89      | 84       | C   |
| FOURRV    | 7532       | FOUR WINDS DR N  | 7595-SUMMER BREEZE DR N  | 701-CHEMAYAWA RD     | 810    | 34      | 27540     | R        | 2      | A   | 85      | 60       | C   |
| FREEMIA   | 6250       | FREEMAN CT NE    | 6214-KALIMA DR           | CUL-DE-SAC           | 360    | 34      | 12920     | R        | 2      | A   | 79      | 83       | C   |
| GABLE     | 7481       | GABLE CT NE      | CUL-DE-SAC               | 7512-HASBROOK AV     | 178    | 34      | 6052      | R        | 2      | O   | 90      | 87       | C   |
| GARDEN    | 7714       | GARDEN CT NE     | 7285-BROOKS ST           | CUL-DE-SAC           | 572    | 34      | 19448     | R        | 2      | A   | 66      | 87       |     |
| GARLAN    | 7300A      | GARLAND WY N     | CUL-DE-SAC               | HSE# 447 GARLAND WAY | 515    | 34      | 17510     | R        | 2      | O   | 88      | 83       | C   |
| GARLAN    | 7300B      | GARLAND WY N     | HSE#447 GARLAND WAY      | 24-RIVER RD          | 1312   | 36      | 47232     | R        | 2      | A   | 85      | 83       | C   |
| GARLAN    | K7231      | GARLAND CT N     | JACK ST                  | CUL DE SAC           | 423    | 34      | 14382     | R        | 2      | A   | 90      | 90       | CG  |
| GARYST    | 7229       | GARY ST NE       | 7224-ALDER DR            | LEO ST NE            | 1508   | 22      | 33176     | R        | 2      | O   | 88      | 80       |     |
| GLAZEM    | K6448      | GLAZEMEADOW ST N | LAWN RIDGE ST N          | MEADOWWOOD DR N      | 1120   | 34      | 38080     | R        | 2      | A   | 92      |          | CG  |
| GLYNBR    | 7482       | GLYNBROOK ST N   | 7245-RIVERCREST DR       | 24-RIVER RD          | 1980   | 34      | 67320     | R        | 2      | O   | 91      | 95       | C   |
| GOBERT    | 7706       | GOBERT AV NE     | 711-DEARBORN AV          | 702-KEIZER RD        | 1171   | 23      | 26933     | R        | 2      | O   | 1       | 87       |     |
| GOLDEN    | K6444      | GOLDEN LN N      | WINDSOR ISLAND           | WILLOW LEAF ST       | 1240   | 34      | 42180     | R        | 2      | A   | 91      |          | CG  |
| GREENW    | 7350A      | GREENWOOD DR NE  | 706-CHERRY RD            | 733B-THORMAN AV      | 1586   | 22      | 34892     | R        | 2      | O   | 85      | 79       |     |

# Road Section Description Report

| STREET ID | SECTION ID | STREET NAME         | BEGINNING LOCATION   | ENDING LOCATION     | LENGTH | WID | AREA  | SUR | VR | GEN | AREA |     |     |    |     |
|-----------|------------|---------------------|----------------------|---------------------|--------|-----|-------|-----|----|-----|------|-----|-----|----|-----|
|           |            |                     |                      |                     |        | JTH | SEC   | F   | LA | TYP | CON  | PCI | COD | ID | ADT |
| GREENW    | 7350B      | GREENWOOD DR NE     | 7338-THORMAN AV      | DEAD END            | 1213   | 30  | 36390 | R   | 2  | O   | 85   | 67  | C   |    |     |
| GRIZZL    | 7643       | GRIZZLE CT NE       | CUL-DE-SAC           | 7642-WOODWARD CT    | 128    | 34  | 4352  | R   | 2  | A   | 80   | 75  | C   |    |     |
| HARCOU    | 7340       | HARCOURT AV NE      | 7350-GREENWOOD DR    | 711-DEARBORN AV     | 1730   | 22  | 38060 | R   | 2  | O   | 90   | 80  |     |    |     |
| HARRON    | 616B       | MALEDON LAKE NE     | 616-CHEMUNYA RD      | 616-LOCKHARTEN DR   | 610    | 23  | 14030 | R   | 2  | A   | 77   | 44  |     |    |     |
| HARTDR    | 7363       | HART DR N           | 7362-HOLLYHOCK PL    | 7362-3RD AV         | 551    | 34  | 18734 | R   | 2  | O   | 91   | 95  | C   |    |     |
| HARVES    | 6404       | HARVEST DR NE       | 6403-FIR CONE DR     | 6225-DELTA DR       | 486    | 34  | 16524 | R   | 2  | A   | 89   | 83  | C   |    |     |
| HASBRO    | 7512       | HASBROOK AV NE      | 702-KEIZER RD        | 6270-ALLENDALE WY   | 984    | 34  | 33786 | R   | 2  | O   | 90   | 87  | C   |    |     |
| HAZELB    | 6432       | HAZELBROOK DR NE    | WHEATLAND RD NE      | CUL-DE-SAC          | 755    | 34  | 25670 | R   | 2  | A   | 91   | 95  | CG  |    |     |
| HEATHIE   | 6409       | HEATHERSTONE CT NE  | CUL-DE-SAC           | 6412-STONEMASON LN  | 410    | 34  | 43940 | R   | 2  | A   | 88   | 83  |     |    |     |
| HIDDEN    | K6474      | HIDDEN CREEK DR NE  | RIVER RD             | LAZY CREEK DR       | 1727   | 31  | 53537 | R   | 2  | A   | 94   |     | CG  |    |     |
| HILLS     | K7242      | HILLS CREEK DR      | FALL CREEK DR        | CUL DE SAC          | 122    | 34  | 4148  | R   | 2  | A   | 82   |     | CG  |    |     |
| HOLLYH    | 7352       | HOLLYHOCK PL N      | 7257-5TH AV          | 24-RIVER RD         | 1289   | 34  | 43826 | R   | 2  | O   | 77   | 55  | C   |    |     |
| HOLLYH    | 7454       | HOLLYHOCK PL N      | 7245-RIVERCREST DR   | CUL-DE-SAC          | 433    | 34  | 14722 | R   | 2  | A   | 76   | 71  | C   |    |     |
| HONEYE    | 7302       | HONEYSUCKLE DR N    | 7245-RIVERCREST DR   | 7257-5TH AV         | 781    | 35  | 27335 | R   | 2  | O   | 91   | 95  | C   |    |     |
| HONEYE    | 7302A      | HONEYSUCKLE CT N    | 7302-HONEYSUCKLE ST  | CUL-DE-SAC          | 127    | 34  | 4318  | R   | 2  | O   | 91   | 94  | C   |    |     |
| HORIZO    | K6483      | HORIZON RIDGE DR NE | ARBORWOOD CT         | COUNTRY GLEN AVE    | 1570   | 31  | 48670 | R   | 2  | A   | 94   |     | CG  |    |     |
| HORIZO    | K6484      | HORIZON RIDGE CT NE | ARBORWOOD CT         | CUL D SAC           | 545    | 31  | 16885 | R   | 2  | A   | 94   |     | CG  |    |     |
| HORNET    | 7335       | HORNET CT N         | 7257-5TH AV          | CUL-DE-SAC          | 360    | 34  | 11900 | R   | 2  | O   | 91   | 95  | C   |    |     |
| HORNET    | 7336       | HORNET DR N         | 7454-HOLLYHOCK PL    | 7257-5TH AV         | 654    | 34  | 22236 | R   | 2  | A   | 70   | 63  | C   |    |     |
| IVYWAY    | 7341       | IVY WAY NE          | DEAD END             | 7340-HARCOURT AV    | 1687   | 34  | 53958 | R   | 2  | O   | 85   | 80  | C   |    |     |
| JACK      | 7652C      | JACK ST N           | S/7300-GARLAND WY    | 7245-RIVERCREST     | 1108   | 34  | 37672 | R   | 2  | A   | 78   | 78  | C   |    |     |
| JACKST    | 7230A      | JACK ST N           | S/CL                 | WILSHIRE DR         | 519    | 34  | 17646 | R   | 2  | O   | 89   | 87  | C   |    |     |
| JACKST    | 7230A1     | JACK ST N           | WILSHIRE DR          | APPLEBLOSSOM AV     | 317    | 34  | 10778 | R   | 2  | O   | 92   | 100 | C   |    |     |
| JACKST    | 7652B      | JACK ST N           | 7293-APPLEBLOSSOM AV | CURB SEC. S/GARLAND | 173    | 20  | 3460  | R   | 2  | A   | 89   | 90  |     |    |     |
| JAKEWO    | K6486      | JAKEWOOD DR NE      | PARKSIDE CT          | HORIZON RIDGE DR    | 205    | 31  | 6355  | R   | 2  | A   | 94   |     | CG  |    |     |
| JAKEWO    | K6487      | JAKEWOOD CT NE      | CUL DE SAC           | PARKSIDE CT         | 183    | 27  | 4941  | R   | 2  | A   | 94   |     | CG  |    |     |
| JAMES     | 7216       | JAMES ST NE         | 24-RIVER RD          | DEAD END            | 989    | 22  | 21978 | R   | 2  | O   | 92   | 100 |     |    |     |
| JANET     | 7273       | JANET AV N          | 7313-ELIZABETH ST    | 7272-WOLF ST        | 439    | 23  | 10087 | R   | 2  | A   | 89   | 84  |     |    |     |
| JASPEN    | K6453      | JASPEN CT N         | PIERCE DR            | CUL-DE-SAC          | 173    | 31  | 5363  | R   | 2  | A   | 94   |     | CG  |    |     |
| JAYMAR    | 6272       | JAYMAR DR NE        | 6272 - LATIQUA DR    | CUL-DE-SAC          | 800    | 34  | 27200 | R   | 2  | A   | 85   | 69  |     |    |     |
| JAYS DR   | 6210       | JAYS DR NE          | 24 WHEATLAND RD      | DEAD END            | 944    | 34  | 32096 | R   | 2  | A   | 89   | 87  | C   |    |     |

# Road - Section Description Report

| SHEET ID: | SECTION ID: | STREET NAME:    | BEGINNING LOCATION   | ENDING LOCATION      | LENGTH: | WID TH: | AREA SEC: | SUR F LA: | YR CON: | GEN PCI: | AREA COD: | ADT |
|-----------|-------------|-----------------|----------------------|----------------------|---------|---------|-----------|-----------|---------|----------|-----------|-----|
| JEFFER    | 6281        | JEFFERY CT N    | CUL-DE-SAC           | 6280-JULIE ST        | 428     | 30      | 12780     | R 2 A     | 78      | 77       | C         |     |
| JENTIF    | 6414        | JENTIF CT NE    | CUL-DE-SAC           | 6413-ZACHARIS CT     | 540     | 34      | 48360     | R 2 A     | 89      | 83       | CG        |     |
| JERDON    | K6454       | JERDON CT N     | NEW TERRACE DR       | CUL-DE-SAC           | 347     | 28      | 9716      | R 2 A     | 93      |          | CG        |     |
| JOANDR    | 7236A       | JOAN DR N       | 63-CHEMAMA RD        | HSE #5295 JOAN DR    | 1616    | 39      | 46864     | R 2 O     | 92      | 100      |           |     |
| JOANDR    | 7236B       | JOAN DR N       | HSE #5296 JOAN DR    | 616-LOCKHAVEN DR     | 875     | 34      | 29750     | R 2 A     | 73      | 74       | C         |     |
| JOELL     | 7619        | JOELL CT N      | 7586-15TH AV         | CUL-DE-SAC           | 661     | 34      | 22474     | R 2 A     | 76      | 72       | C         |     |
| JOVATH    | 7604        | JOVATHAN CT NE  | CUL-DE-SAC           | 7306-18TH AV         | 260     | 30      | 7500      | R 2 A     | 88      | 80       |           |     |
| JUEDES    | 7556        | JUEDES AV N     | 7122-DELIGHT AV      | 24-RIVER RD          | 1833    | 21      | 38483     | R 2 A     | 74      | 61       |           |     |
| JULIE     | 6280        | JULIE ST N      | DEAD END             | 7236-JOAN DR         | 397     | 34      | 13498     | R 2 A     | 78      | 69       | C         |     |
| JULIE     | 7602        | JULIE ANN CT NE | 7603-PANTHER CT      | CUL-DE-SAC           | 143     | 30      | 4290      | R 2 A     | 88      | 83       | C         |     |
| JUNIPER   | 7617A       | JUNIPER ST N    | 7586-15TH AV         | HSE #1208 JUNIPER ST | 1161    | 34      | 39474     | R 2 A     | 73      | 62       | C         |     |
| JUNIPER   | 7617B       | JUNIPER ST N    | HSE #1208 JUNIPER ST | CUL-DE-SAC           | 1414    | 34      | 48076     | R 2 A     | 71      | 68       | C         |     |
| JUNIPER   | 7618        | JUNIPER CT N    | CUL-DE-SAC           | 7617-JUNIPER ST      | 416     | 34      | 14144     | R 2 A     | 76      | 78       | C         |     |
| KAFIR     | 6246        | KAFIR DR NE     | 6237-ARCADE AV       | 616-LOCKHAVEN        | 1710    | 36      | 61560     | R 2 A     | 71      | 78       | C         |     |
| KALMIA    | 6214        | KALMIA DR NE    | 703-VERDA LN         | 6237-ARCADE AVE      | 230     | 34      | 7820      | R 2 A     | 94      | 100      | C         |     |
| KALMIA    | 6214A       | KALMIA DR NE    | HSE #5369 KALMIA DR  | 616-LOCKHAVEN        | 1442    | 34      | 49028     | R 2 O     | 92      | 100      | C         |     |
| KALMIA    | 6214B       | KALMIA DR NE    | 6237-ARCADE AVE      | HSE #5369 KALMIA DR  | 613     | 34      | 20842     | R 2 A     | 94      | 100      | C         |     |
| KAYAK     | 6245        | KAYAK WY NE     | 6237-ARCADE AV       | 6238-LARCHWOOD ST    | 1149    | 34      | 39066     | R 2 A     | 70      | 65       | C         |     |
| KEIZER    | 6268        | KEIZER CT NE    | CUL-DE-SAC           | 6270-ALLENDIALE WY   | 150     | 34      | 5100      | R 2 O     | 90      | 87       | C         |     |
| KELLYC    | K6249       | KELLY CT NE     | KALMIA ST NE         | CUL-DE-SAC           | 678     | 34      | 23052     | R 2 A     | 67      | 100      | C         |     |
| KELLYS    | K6249       | KELLY ST NE     | KAFIR ST NE          | KALMIA DR NE         | 220     | 34      | 7480      | R 2 O     | 93      | 100      | C         |     |
| KEPHAR    | 7601        | KEPHART CT NE   | 7306-18TH AV         | CUL-DE-SAC           | 629     | 34      | 17986     | R 2 A     | 86      | 73       | C         |     |
| KESTRE    | 7315        | KESTREL ST N    | 7314-4TH PL          | CUL-DE-SAC           | 465     | 34      | 15810     | R 2 O     | 91      | 90       | C         |     |
| KIMBER    | 6259        | KIMBERLY CT NE  | CUL-DE-SAC           | 6246-KAYAK WY        | 288     | 34      | 9792      | R 2 A     | 72      | 74       | C         |     |
| KINGLE    | 6217        | KINGLET WAY NE  | 6214-KALMIA DR       | 619-CHEMAMA RD       | 765     | 34      | 28010     | R 2 O     | 92      | 100      | C         |     |
| KINGLE    | 6256        | KINGLET WAY NE  | 619-CHEMAMA RD       | DEAD END             | 1055    | 34      | 35670     | R 2 A     | 67      | 66       | C         |     |
| KLICIT    | 6274        | KLICITAT DR NE  | 6278-WILLAPA ST      | 616-LOCKHAVEN DR     | 886     | 34      | 30465     | R 2 A     | 70      | 66       | C         |     |
| KOALA     | 6252        | KOALA ST N      | 63-WINDSOR ISLAND RD | 7236-JOAN DR         | 941     | 34      | 31994     | R 2 A     | 71      | 61       | C         |     |
| KOUFAX    | K6496       | KOUFAX LANE NE  | STONEHEDGE DR NE     | ROCKLEDGE DR NE      | 656     | 34      | 29104     | R 2 A     | 92      | 95       | CG        |     |
| KRYSTI    | 7715        | KRYSTI CT NE    | CUL-DE-SAC           | 7285-BROOKS ST       | 261     | 26      | 6786      | R 2 A     | 79      | 83       | C         |     |
| LACEY     | 6423        | LACEY CT N      | 6415-WILLOW LAKE RD  | CUL-DE-SAC           | 419     | 34      | 14246     | R 2 A     | 89      | 85       | CG        |     |

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| STREET ID | SECTION ID | STREET NAME        | BEGINNING LOCATION | ENDING LOCATION       | LENGTH | WID | AREA  | SUR | VR  | CON | GEN | ADT   |
|-----------|------------|--------------------|--------------------|-----------------------|--------|-----|-------|-----|-----|-----|-----|-------|
|           |            |                    |                    |                       | -TH    | SEC | F     | LA  | TYP | CON | COD | ID    |
| LAGUNA    | 6402       | LAGUNA DR NE       | 24-WHEATLAND RD    | 6404-HARVEST DR       | 758    | 34  | 25772 | R   | 2   | A   | 89  | 83 C  |
| LANCER    | 6254       | LANCERS CT NE      | 6217-KINGLET WY    | CUL-DE-SAC            | 340    | 34  | 11560 | R   | 2   | A   | 76  | 76 C  |
| LARCHW    | 6239       | LARCHWOOD ST NE    | 703-VERDA LN       | 6246-KAFIR DR         | 1540   | 34  | 52360 | R   | 2   | A   | 94  | 100 C |
| LARRY     | 7217       | LARRY AV N         | 7245-RIVERCREST AV | 7609-STRAW DR         | 1638   | 21  | 34398 | R   | 2   | O   | 77  | 86    |
| LATONA    | 6272       | LATONA DR NE       | JAYMAR             | LATONA CT             | 716    | 34  | 24344 | R   | 2   | A   | 67  | 74 C  |
| LATONA    | 6272A      | LATONA CT NE       | LATONA DR          | CULDE-SAC             | 194    | 34  | 6596  | R   | 2   | A   | 67  | 77 C  |
| LAUDER    | 6284       | LAUDERBACK ST NE   | 6260 ALDINE DR     | 6272 LATONA DR        | 794    | 34  | 26996 | R   | 2   | A   | 94  | 100 C |
| LAUREL    | 6420       | LAURELRIDGE ST NE  | LAURELRIDGE LOOP N | PARK TERRACE DR       | 1131   | 34  | 38454 | R   | 2   | A   | 90  | 91 CG |
| LAUREL    | 6442       | LAURELRIDGE LOOP N | LAURELRIDGE ST     | LAURELRIDGE ST        | 1008   | 34  | 34272 | R   | 2   | A   | 92  | CG    |
| LAWLES    | 7207A      | LAWLESS ST NE      | 7337-CLARK AV      | 7340-HARCOURT AV      | 951    | 22  | 20922 | R   | 2   | O   | 75  | 74    |
| LAWLES    | 7207B      | LAWLESS ST NE      | 7340-HARCOURT AV   | DEAD END              | 604    | 34  | 20536 | R   | 2   | A   | 1   | 60 C  |
| LAWNRI    | 6424       | LAWNRIIDGE ST N    | MEADOW RIDGE DR    | GLAZEMEADOW ST        | 715    | 34  | 24310 | R   | 2   | A   | 90  | 92 CG |
| LAWNVI    | 6238       | LAWNVIEW ST NE     | CUL-DE-SAC         | 703-VERDA LN          | 491    | 34  | 16694 | R   | 2   | A   | 94  | 100 C |
| LAZYCT    | 66476      | LAZY CREEK CT NE   | WHISPER CREEK LP   | CUL-DE-SAC            | 167    | 31  | 5177  | R   | 2   | A   | 94  | CG    |
| LAZYDR    | 66475      | LAZY CREEK DR NE   | HIDDEN CREEK DR    | WHISPER CREEK LP      | 311    | 31  | 9641  | R   | 2   | A   | 94  | CG    |
| LEEMAR    | 7253A      | LEEMARD CT N       | FOUR WINDS DR N    | CUL DE SAC            | 438    | 34  | 14892 | R   | 2   | A   | 91  | CG    |
| LEOST     | 7252A      | LEO ST NE          | 7260-FILBERT ST    | DEAD END              | 388    | 30  | 11640 | R   | 2   | O   | 89  | 87 C  |
| LEOST     | 7252B      | LEO ST NE          | 7265-BROOKS ST     | NOON AVE              | 288    | 34  | 9792  | R   | 2   | O   | 92  | 100 C |
| LEOST     | 7252C      | LEO ST NE          | 7228-GARY ST       | DEAD END/NOONVILLE AV | 786    | 22  | 17512 | R   | 2   | O   | 85  | 77    |
| LEPRIC    | 6265       | LEPRICHAUN CT NE   | CUL-DE-SAC         | 6284-AMY LN           | 173    | 34  | 5882  | R   | 2   | A   | 76  | 69 C  |
| LINDA     | 7708       | LINDA AV NE        | 24-RIVER RD        | DEAD END              | 983    | 40  | 39320 | R   | 2   | A   | 94  | 100   |
| LISACT    | 6268       | LISA CT NE         | CUL-DE-SAC         | 6245-KAYAK WY         | 634    | 34  | 21566 | R   | 2   | A   | 66  | 79 C  |
| LONGCR    | K7241      | LONG CREEK CT N    | FALL CREEK DR      | CUL DE SAC            | 121    | 34  | 4114  | R   | 2   | A   | 92  | CG    |
| LOSTOR    | K7247      | LOST CREEK CT. N.  | SANDRA AV.         | CUL-DE-SAC            | 267    | 26  | 6942  | R   | 2   | A   | 94  | CG    |
| LOSTLN    | 7702       | LOST LANE N        | 7288-CRATER AV     | DEAD END              | 453    | 20  | 9060  | R   | 2   | A   | 89  | 83    |
| LOWELL    | 7339       | LOWELL AV NE       | DEAD END           | 711-DEARBORN AV       | 1299   | 21  | 27279 | R   | 2   | O   | 76  | 63    |
| MAINE     | 7379       | MAINE AV NE        | 24-RIVER RD        | DEAD END              | 1090   | 43  | 46870 | R   | 2   | A   | 94  | 100 C |
| MAMBRI    | 7249A1     | MAMBRIN DR N       | 7246-SHORELINE DR  | 7245-RIVERCREST DR    | 389    | 30  | 11670 | R   | 2   | A   | 60  | 37 C  |
| MAMBRI    | 7249A2     | MAMBRIN DR N       | 7245-RIVERCREST DR | 7244-ROMAN AV         | 796    | 30  | 22880 | R   | 2   | O   | 88  | 84 C  |
| MAMBRI    | 7249A3     | MAMBRIN DR N       | 7244-ROMAN AV      | 24-RIVER RD           | 1321   | 30  | 38630 | R   | 2   | O   | 84  | 76 C  |
| MAMBRI    | 7249C      | MAMBRIN DR NE      | 705-CHERRY AV      | 7265-BROOKS ST        | 1379   | 34  | 46886 | R   | 2   | O   | 84  | 76 C  |



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| STREET ID | SECTION ID | STREET NAME       | BEGINNING LOCATION  | ENDING LOCATION        | WD     | AREA | SUR   | YR | CON | PCI | AREA | ADT   |
|-----------|------------|-------------------|---------------------|------------------------|--------|------|-------|----|-----|-----|------|-------|
|           |            |                   |                     |                        | LENGTH | TH   | SEC   | F  | LA  | TYP | CON  | ADT   |
| MANDAR    | 6222       | MANDARIN ST NE    | 24 TRAIL AVE        | 6218 14TH AVE          | 1394   | 34   | 47396 | R  | 2   | O   | 89   | 74 C  |
| MANDAR    | 6224       | MANDARIN WAY NE   | DEAD END            | 6219-14TH AVE          | 274    | 34   | 9316  | R  | 2   | A   | 65   | 67 C  |
| MANZAN    | 6206A      | MANZANITA ST NE   | 24-TRAIL AV         | HSE #1315 MANZANITA    | 1085   | 34   | 37230 | R  | 2   | A   | 89   | 74 C  |
| MANZAN    | 6208B      | MANZANITA ST NE   | HSE #1315 MANZANITA | 7837-17TH AV           | 1320   | 34   | 44880 | R  | 2   | O   | 92   | 100 C |
| MANZAN    | 6206C      | MANZANITA ST NE   | 6101-MCLEOD LN      | 6273-WOODLAWN DR       | 1140   | 34   | 38780 | R  | 2   | A   | 87   | 75 C  |
| MANZAN    | 6206D      | MANZANITA ST NE   | 24 - RIVER RD       | TRAIL AVE              | 310    | 37   | 11470 | R  | 3   | A   | 90   | 83 CG |
| MANZAN    | 6212       | MANZANITA WAY NE  | 6208-11TH AV        | 6209-13TH AV           | 680    | 34   | 23120 | R  | 2   | O   | 92   | 100 C |
| MANZAN    | 6257       | MANZANITA ST NE   | CUL-DE-SAC          | 6101-MCLEOD LN         | 717    | 34   | 24378 | R  | 2   | A   | 87   | 100 C |
| MARIGO    | 6207A      | MARIGOLD ST NE    | 6208-11TH AVE       | 6209-13TH AVE          | 625    | 34   | 21280 | R  | 2   | A   | 89   | 71 C  |
| MARIGO    | 6207B      | MARIGOLD ST NE    | 6209-13TH AV        | 6257-MANZANITA ST      | 2070   | 34   | 70380 | R  | 2   | O   | 92   | 100 C |
| MARINO    | 7243       | MARINO DR N       | 7246-SHORELINE DR   | 7828-CEADAR AV         | 2022   | 30   | 60660 | R  | 2   | O   | 89   | 88 C  |
| MAXCT     | K2205      | MAX CT. N.        | NEWBERG DR          | CUL-DE-SAC             | 325    | 31   | 10075 | R  | 2   | A   | 94   | CG    |
| MAYFIE    | 7716       | MAYFIELD PL N     | SICL                | 7288-WILSHIRE DR       | 483    | 23   | 11109 | R  | 2   | O   | 89   | 87    |
| MAYST     | 7720       | MAY ST NE         | 703-VERDA LN        | 7707-NOREN AV          | 979    | 23   | 22517 | R  | 2   | O   | 89   | 87    |
| MCCLUR    | 6447       | MCCLURE ST N      | 616-LOCKHAVEN DR    | DEAD END               | 1097   | 36   | 39482 | R  | 2   | A   | 89   | 83    |
| MCLEOD    | 6101A      | MCLEOD LN NE      | 616 - LOCKHAVEN DR  | 6280 - ALDINE DR       | 658    | 28   | 18424 | R  | 2   | A   | 94   | 100   |
| MCLEOD    | 6101B      | MCLEOD LN NE      | 6280-ALDINE DR      | MANZANITA ST NE        | 1240   | 26   | 32240 | R  | 2   | O   | 92   | 100   |
| MCLEOD    | 6101C      | MCLEOD LN NE      | MANZANITA ST NE     | 6102-TEPPER LN         | 788    | 26   | 20746 | R  | 2   | O   | 90   | 83    |
| MCLEOD    | 6101D      | MCLEOD LN NE      | 6102-TEPPER LN      | HSE #8645 MCLEOD LN    | 697    | 34   | 23698 | R  | 2   | A   | 83   | 54 C  |
| MCLEOD    | 6101E      | MCLEOD LN NE      | HSE #8645 MCLEOD LN | 6408-ROCK LEDGE DR     | 466    | 34   | 19810 | R  | 2   | A   | 89   | 83 CG |
| MEADOW    | 6416       | MEADOWRIDGE ST NE | LAWNRRIDGE ST       | 24 - RIVER RD          | 1400   | 34   | 47800 | R  | 2   | A   | 90   | 83 CG |
| MEADOW    | 6419       | MEADOWWOOD DR NE  | 6416-MEADOWRIDGE ST | GLAZEMEADOW ST         | 720    | 34   | 24480 | R  | 2   | A   | 90   | 87 CG |
| MEADOW    | 7628       | MEADOWBROOK CT NE | CUL-DE-SAC          | 7249-MANRRIN DR        | 401    | 34   | 13634 | R  | 2   | A   | 79   | 70 C  |
| MEADOW    | K6218      | MEADOWLARK DR NE  | 14TH AVE NE         | MCLEOD LN NE           | 1676   | 34   | 56984 | R  | 2   | O   | 94   | 100 C |
| MEADOW    | K6218S     | MEADOWLARK DR NE  | 14TH AVE NE         | MISTWOOD DR NE         | 613    | 34   | 20842 | R  | 2   | O   | 83   | 48 C  |
| MEADOW    | K6450      | MEADOWGLEN ST NE  | GLAZEMEADOW ST N    | ELEM. SCHOOL CEMENT AP | 716    | 31   | 22196 | R  | 2   | A   | 92   | CG    |
| MELROS    | 6445       | MELROSE CT N      | GOLDEN LNN          | CUL-DE-SAC             | 190    | 34   | 6460  | R  | 2   | A   | 91   | CG    |
| MENLO     | 7246A      | MENLO DR N        | 7246- SHORELINE DR  | 7828-CEADAR AV         | 2145   | 30   | 64350 | R  | 2   | O   | 89   | 85 C  |
| MENLO     | 7248B      | MENLO DR N        | 7628-CEADAR AV      | 24-RIVER RD            | 566    | 30   | 16980 | R  | 2   | O   | 89   | 87 C  |
| MISTLE    | 6211       | MISTLETOE LP NE   | 24-WHEATLAND RD NE  | 6211-MISTLETOE LP NE   | 1615   | 34   | 54910 | R  | 2   | A   | 60   | 35 C  |
| MISTWO    | 6242       | MISTWOOD DR NE    | 6218-MEADOWLARK DR  | 6101-MCLEOD LN         | 2563   | 34   | 87822 | R  | 2   | A   | 93   | 100 C |

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| STREET ID | SECTION ID | STREET NAME            | BEGINNING LOCATION      | ENDING LOCATION         | LENGTH | WID | AREA  | SUR | YR  | GEN  |    |     |    |
|-----------|------------|------------------------|-------------------------|-------------------------|--------|-----|-------|-----|-----|------|----|-----|----|
| ID        | ID         |                        |                         |                         | -TH    | SEC | F LA  | TYP | CON | AREA |    |     |    |
|           |            |                        |                         |                         |        |     |       |     |     | ADT  |    |     |    |
| MODOC     | 6276       | MODOC DR NE            | 619-CHEMAYA RD          | 6274-KLICITAT DR        | 1085   | 34  | 36890 | R   | 2   | A    | 71 | 65  | C  |
| MONEDA    | 7270A      | MONEDA AV N            | 7361-13TH AV            | 7246-SHORELINE DR       | 2222   | 34  | 75548 | R   | 2   | O    | 89 | 69  |    |
| MONEDA    | 7270B      | MONEDA CT N            | 7246-SHORELINE DR       | CUL-DE-SAC              | 384    | 30  | 11520 | R   | 2   | O    | 91 | 100 | C  |
| MULVEH    | 7484       | MULVEHILL CT N         | CUL-DE-SAC              | 7482-GLYNBROOK ST       | 123    | 32  | 3936  | R   | 2   | O    | 91 | 96  | C  |
| MCINTOSH  | K6446      | MCINTOSH CT N          | GOLDEN LN               | CUL-DE-SAC              | 191    | 34  | 6494  | R   | 2   | A    | 93 |     | CG |
| NANDIN    | 6243       | NANDINA CT NE          | CUL-DE-SAC              | 6232 NOTTINGHAM DR      | 229    | 30  | 6870  | R   | 2   | A    | 93 | 100 | C  |
| NEWMER    | 7206       | NEWBERG ST N           | 63-CHEMAYA RD           | MACAURTHIER ST N        | 1637   | 22  | 36014 | R   | 2   | O    | 92 | 100 |    |
| NEWMER    | 7206B      | NEWBERG ST N           | MACAURTHIER ST          | 618 LOCKHAVEN DR        | 745    | 22  | 16390 | R   | 2   | O    | 90 | 86  |    |
| NEWMER    | 6226       | NEW TERRACE CT NE      | 24 WHEATLAND RD         | CUL DE SAC              | 545    | 30  | 16200 | R   | 2   | A    | 68 | 64  | C  |
| NEWMER    | 6307       | NEWTERRACE DR N        | 6305 BIRCHWOOD CT       | 24 WHEATLAND RD         | 430    | 34  | 14620 | R   | 2   | A    | 70 | 81  | C  |
| NEWTON    | 6433       | NEWTON CT N            | GOLDEN LN N             | CUL-DE-SAC              | 183    | 34  | 6222  | R   | 2   | A    | 91 |     | CG |
| NIGHTE    | 6244       | NIGHTENGALE CT NE      | CUL-DE-SAC              | 6232 NOTTINGHAM DR      | 565    | 30  | 16950 | R   | 2   | A    | 93 | 100 | C  |
| NOONAV    | 7377       | NOON AV NE             | CUL-DE-SAC              | 7252-LEO ST             | 1027   | 34  | 34918 | R   | 2   | O    | 88 | 78  |    |
| NOREN     | 7707       | NOREN AV NE            | 711-DEARBORN AV         | 702-KEIZER RD           | 1205   | 28  | 33740 | R   | 2   | O    | 89 | 87  |    |
| NORTHE    | K6480      | NORTHERN HEIGHTS LP NE | RIDGE TOP DR            | COUNTRY GLEN AVE        | 819    | 27  | 22113 | R   | 2   | A    | 94 |     | CG |
| NORTHR    | 6230       | NORTHRUP CT NE         | CUL-DE-SAC              | 36-RIVER RD             | 371    | 20  | 7420  | R   | 2   | A    | 94 | 100 |    |
| NORTHR    | K6451      | NORTHRIDGE CT N        | PIERCE DR N             | CUL DE SAC              | 363    | 34  | 12342 | R   | 2   | A    | 92 |     | CG |
| NORTHS    | 6231       | NORTSHIRE CT NE        | CUL-DE-SAC              | 36-RIVER RD             | 370    | 20  | 7400  | R   | 2   | A    | 94 | 100 |    |
| NORTHS    | K7322      | NORTHSIDE DR. NE       | CLAXTER RD. NE          | WIESSNER DR.            | 1909   | 27  | 51543 | R   | 2   | A    | 94 |     | CG |
| NORTHT    | 6261       | NORTHTREE DR NE        | MCLEOD LN               | NORTHTREE CT            | 804    | 34  | 27336 | R   | 2   | A    | 94 | 100 | C  |
| NORTHT    | 6261A      | NORTHTREE CT NE        | NORTHTREE DR NE         | CUL-DE-SAC              | 447    | 34  | 15198 | R   | 2   | A    | 94 | 100 | C  |
| NORTHV    | 7307       | NORTHVIEW DR NE        | 7306-18TH AV            | 7306-19TH PL            | 712    | 34  | 24208 | R   | 2   | O    | 89 | 76  | C  |
| NORTHV    | 7370       | NORTH WIND CT N        | 7817-JUNIPER ST         | CUL-DE-SAC              | 507    | 34  | 17238 | R   | 2   | A    | 87 | 69  | C  |
| NWEST     | K6507      | N. WESTRIDGE CT N      | RUSSETT DR              | N. CUL D SAC            | 437    | 27  | 11799 | R   | 2   | A    | 94 |     | CG |
| ONEIL     | 614        | O'NEIL RD NE           | PARKVIEW DR. (600)NORTH | 613 CLEAR LAKE RD       | 3300   | 18  | 82098 | R   | 2   | A    | 73 | 63  |    |
| ONEIL     | K614A      | O'NEIL RD. NE          | PARKMEADOW DR.          | OLD ALIGN. OF ONEIL RD. | 573    | 31  | 11763 | R   | 2   | A    | 94 |     | CG |
| OFFENB    | 6291       | OFFENBACH CT NE        | CUL DEED SAC            | 6232 NOTTINGHAM DR      | 480    | 30  | 14400 | R   | 2   | A    | 70 | 84  | C  |
| OLD CH    | ROADS      | OLD CHEMAYA RD NE      | 6103 RADIANT DR         | CUL-DE-SAC              | 855    | 22  | 18810 | R   | 2   | A    | 87 | 82  |    |
| ORCHAR    | 6290       | ORCHARD CT N           | CUL-DE-SAC              | 63 WINDSOR ISLAND RD    | 440    | 34  | 14960 | R   | 2   | A    | 94 | 100 |    |
| ORCHAR    | 6408       | ORCHARD ST N           | 63-WINDSOR ISLAND RD    | 7236-JOAN DR            | 737    | 20  | 14740 | R   | 2   | A    | 80 | 48  |    |
| OTTERW    | 6228       | OTTER WAY N            | 6228 2ND AVE            | 24 WHEATLAND RD         | 545    | 34  | 18530 | R   | 2   | A    | 89 | 83  |    |

# Kitzel Public Works Road Section Description Report

| STREET ID | SECTION ID | STREET NAME          | BEGINNING LOCATION   | ENDING LOCATION     | LENGTH | WID | AREA   | SUR | VR  | GEN | AREA |     |     |
|-----------|------------|----------------------|----------------------|---------------------|--------|-----|--------|-----|-----|-----|------|-----|-----|
|           |            |                      |                      |                     | -TH    | SEC | F      | LA  | TYP | CON | PCI  | COD | IDT |
| PANTHER   | 7803       | PANTHER CT NE        | CUL-DE-SAC           | 7601-KEPHART CT NE  | 488    | 34  | 16592  | R   | 2   | A   | 88   | 76  | C   |
| PARKLA    | 7292       | PARKLAWN CT NE       | 24-TRAIL AVE         | CUL-DE-SAC          | 347    | 22  | 7634   | R   | 2   | A   | 81   | 62  | C   |
| PARKME    | K6458      | PARKMEADOW DR NE     | WHEATLAND RD.        | RIVER RD.           | 3515   | 32  | 112480 | R   | 2   | A   | 94   |     | CG  |
| PARKPL    | K6462      | PARKPLACE CT NE      | PARKMEADOW DR.       | CUL-DE-SAC          | 319    | 28  | 8294   | R   | 2   | A   | 94   |     | CG  |
| PARKPL    | K6463      | PARKPLACE DR NE      | PARKMEADOW DR.       | BOARDWALK AVE       | 936    | 31  | 29016  | R   | 2   | A   | 94   |     | CG  |
| PARKRI    | 6418       | PARKRIDGE ST NE      | 6417-RIDGEPOINT ST   | 6416-MEADOWRIDGE ST | 206    | 34  | 7004   | R   | 2   | A   | 90   | 87  | CG  |
| PARKSH    | K6478      | PARKSHADOW CT NE     | HIDDEN CREEK RD.     | DEAD END            | 109    | 31  | 3379   | R   | 2   | A   | 94   |     | CG  |
| PARKSI    | K6488      | PARKSIDE CT NE       | JAKEWOOD DR          | CUL D SAC           | 895    | 27  | 24165  | R   | 2   | A   | 94   |     | CG  |
| PARKTE    | 6425       | PARKTERACE DR        | CUL-DE-SAC           | PARK MEADOW DR      | 970    | 34  | 32980  | R   | 2   | A   | 90   | 95  | CG  |
| PARKVI    | 6426       | PARKVIEW CT NE       | PARKTERACE DR        | CUL-DE-SAC          | 605    | 34  | 20570  | R   | 2   | A   | 90   | 88  | CG  |
| PARKVI    | K6495      | PARKVIEW CT NE       | PARK TERRACE         | CUL DE SAC          | 606    | 34  | 20604  | R   | 2   | A   | 92   |     | CG  |
| PENDER    | 7453       | PENDER CT N          | 7286-VENTURA AV      | CUL-DE-SAC          | 125    | 30  | 3750   | R   | 2   | A   | 66   | 64  | C   |
| PETTYG    | 7489       | PETTYGROVE CT NE     | CUL-DE-SAC           | 7512-HASBROOK AV    | 465    | 34  | 15810  | R   | 2   | O   | 90   | 87  | C   |
| PIERCE    | 6308       | PIERCE DR N          | 6310 RUSSETT DR      | DEAD END            | 861    | 34  | 29274  | R   | 2   | A   | 71   | 69  | C   |
| PIERCE    | 6309       | PIERCE CT N          | CUL-DE-SAC           | 6310-RUSSETT DR     | 680    | 34  | 23120  | R   | 2   | A   | 71   | 75  | C   |
| PIERCE    | 6431       | PIERCE DR N          | ALDRIDGE DR N        | DEAD END            | 582    | 34  | 19788  | R   | 2   | A   | 91   |     | CG  |
| PINEVI    | K6460      | PINEVIEW ST NE       | PARKMEADOW DR.       | DEAD END            | 487    | 31  | 15097  | R   | 2   | A   | 94   |     | CG  |
| PLEASA    | 6289       | PLEASANT CT NE       | CUL-DE-SAC           | 6270-ALLENDALE WY   | 188    | 34  | 5372   | R   | 2   | O   | 90   | 87  | C   |
| PLEASA    | 7228       | PLEASANT VIEW DR NE  | DEAD END             | 7229-GARY ST        | 2026   | 22  | 44572  | R   | 2   | A   | 94   | 100 | C   |
| PLUMTR    | 6263       | PLUM TREE CT NE      | 6261-NORTHTREE DR    | CUL-DE-SAC          | 364    | 34  | 12376  | R   | 2   | A   | 94   | 100 | C   |
| PLYMOU    | 7710       | PLYMOUTH AV NE       | 24-RIVER RD          | 706-CHERRY AV       | 1456   | 21  | 30576  | R   | 2   | O   | 75   | 61  |     |
| POTTS     | 7345       | POTTS DR NE          | 7283-APPLEBLOSSOM AV | DEAD END            | 732    | 34  | 24888  | R   | 2   | O   | 87   | 64  | C   |
| POWDER    | K7240      | POWDER CREEK CT N    | FALL CREEK DR        | CUL DE SAC          | 122    | 34  | 4148   | R   | 2   | A   | 92   |     | CG  |
| PRAIRI    | K6496      | PRAIRIE ST NE        | BENT GRASS CT        | DEAD END            | 344    | 31  | 10964  | R   | 2   | A   | 94   |     | CG  |
| PRAIRI    | K6497      | PRAIRIE GRASS AVE NE | MEADOWGLEN ST        | PRAIRIE ST          | 550    | 31  | 17050  | R   | 2   | A   | 94   |     | CG  |
| QUEENS    | 6255       | QUEENS AV NE         | 6217-KINGLET WAY     | DEAD END            | 298    | 34  | 10132  | R   | 2   | A   | 75   | 74  | C   |
| RAFAEL    | 7269A      | RAFAEL AV N          | 7586-15TH AV         | 7415-10TH PL        | 2005   | 34  | 66170  | R   | 2   | A   | 67   | 59  | C   |
| RAFAEL    | 7269B      | RAFAEL AV N          | 7415-10TH PL         | 7246-SHORELINE DR   | 1480   | 34  | 50320  | R   | 2   | A   | 94   | 100 | C   |
| RAFAEL    | 7269C      | RAFAEL ST N          | RIVERCREST DR N      | SHORELINE DR        | 471    | 34  | 16014  | R   | 2   | A   | 94   | 100 | C   |
| RAFAEL    | 7608       | RAFAEL CT N          | CUL-DE-SAC           | 7289-RAFAEL AV      | 441    | 34  | 14894  | R   | 2   | A   | 73   | 78  | C   |
| RIDGEC    | K6452      | RIDGECREST DR N      | PIERCE DR N          | WHEATLAND RD N      | 497    | 34  | 16898  | R   | 2   | A   | 92   |     | CG  |

# KALZAR ID 101116 0165 Road Section Description Report

| STREET ID | SECTION | STREET NAME        | BEGINNING LOCATION       | ENDING LOCATION          | WD          | AREA | F     | LA | TYP | CON | PCI | GEN | AREA | ADT |
|-----------|---------|--------------------|--------------------------|--------------------------|-------------|------|-------|----|-----|-----|-----|-----|------|-----|
|           |         |                    |                          |                          | LENGTH: -TH | SEC: |       |    |     |     |     | COD | ID:  |     |
| RIDGEEM   | 6428    | RIDGEMONT DR NE    | RIDGEVIEW DR             | ALDRIDGE DR              | 948         | 34   | 19924 | R  | 2   | A   | 91  |     | CG   |     |
| RIDGEEP   | 6417A   | RIDGEPOINT ST NE   | CUL-DE-SAC (OFF PARK RID | RIDGE POINT CT           | 925         | 34   | 31450 | R  | 2   | A   | 90  | 87  | CG   |     |
| RIDGEP    | 6417B   | RIDGE POINT CT NE  | RIDGE POINT DR           | CUL-DE-SAC               | 425         | 34   | 14450 | R  | 2   | A   | 90  | 87  | CG   |     |
| RIDDET    | K6482   | RIDGETOP DR NE     | HORIZON RIDGE DR         | COUNTRY GLEN AVE         | 734         | 31   | 22754 | R  | 2   | A   | 94  |     | CG   |     |
| RIDGEV    | K6456   | RIDGEVIEW CT N     | PIERCE DR                | CUL-DE-SAC               | 161         | 31   | 4991  | R  | 2   | A   | 94  |     | CG   |     |
| RIDGEV    | K6457   | RIDGEVIEW DR N     | PIERCE DR                | PRIVATE EASEMENT         | 365         | 31   | 11315 | R  | 2   | A   | 94  |     | CG   |     |
| RIMROC    | 6407    | RIMROCK CT NE      | 6282 - STONEHEDGE DR     | CUL-DE-SAC               | 378         | 34   | 12862 | R  | 2   | A   | 85  | 75  | C    |     |
| RIVERC    | 7245A   | RIVERCREST DR N    | 260 S/7692-JACK ST       | 200 S/7482-GL VNBROOK ST | 494         | 18   | 8892  | R  | 2   | A   | 81  | 81  |      |     |
| RIVERC    | 7245B   | RIVERCREST DR N    | 200 S/7482-GL VNBROOK ST | 100 N/7492-GL VNBROOK ST | 214         | 36   | 7704  | R  | 2   | A   | 81  | 59  | C    |     |
| RIVERC    | 7245C   | RIVERCREST DR N    | 100 S/7454-HOLL YHOCK PL | 7251-SUNSET AV           | 1590        | 36   | 57240 | R  | 2   | A   | 85  | 55  | C    |     |
| RIVERC    | 7245E   | RIVERCREST DR N    | 7250-WAYNE DR            | 7248-MENLO               | 895         | 30   | 26550 | R  | 2   | O   | 89  | 79  | C    |     |
| RIVERC    | 7245F   | RIVERCREST DR N    | 7269-RAFAEL AV           | 711-DEARBORN AV          | 1066        | 34   | 36924 | R  | 2   | O   | 88  | 77  | C    |     |
| RIVERC    | 7269D   | RIVERCREST DR N    | CUMMINGS LA N            | RAFAEL ST                | 402         | 34   | 13668 | R  | 2   | A   | 94  | 100 | C    |     |
| RIVERC    | K7245G  | RIVERCREST DR N    | 100N OF GL VNBROOK       | CUL-DE-SAC               | 335         | 34   | 11390 | R  | 2   | A   | 92  |     | CG   |     |
| RIVERG    | 7594    | RIVERGROVE CT N    | 7269-RAFAEL AV N         | CUL-DE-SAC               | 472         | 34   | 16048 | R  | 2   | A   | 73  | 72  | C    |     |
| RIVERR    | 6283    | RIVER ROCK DR NE   | 6219 - 14TH AVE          | 6284 - AMY LN            | 1064        | 34   | 36178 | R  | 2   | A   | 84  | 75  | C    |     |
| RIVERW    | 7585    | RIVERWOOD DR N     | 7586-15TH AV             | 7269-RAFAEL AV           | 962         | 34   | 32708 | R  | 2   | A   | 73  | 70  | C    |     |
| RIVERW    | 7585A   | RIVERWOOD CT N     | CUL-DE-SAC               | 7587-RIVERWOOD DR        | 342         | 34   | 11628 | R  | 2   | A   | 71  | 74  | C    |     |
| ROBIND    | 7701    | ROBINDALE DR N     | 63-CHEMUNWA RD           | DEAD END                 | 972         | 20   | 19440 | R  | 2   | O   | 82  | 100 |      |     |
| ROCKCR    | 6406    | ROCK CRYSTAL LN NE | S / CUL-DE-SAC(OFF ROCK  | N / CUL-DE-SAC           | 543         | 34   | 18642 | R  | 2   | A   | 89  | 77  | C    |     |
| ROCKLE    | 6405A   | ROCKLEDGE DR NE    | 6219 - 14TH AVE          | HSE #1934 ROCKLEDGE      | 1316        | 34   | 44710 | R  | 2   | A   | 81  | 73  | C    |     |
| ROCKLE    | 6405B   | ROCKLEDGE DR NE    | HSE #1934 ROCKLEDGE      | DEAD NED                 | 1050        | 34   | 35700 | R  | 2   | A   | 89  | 80  | CG   |     |
| ROCKLE    | 6405C   | ROCKLEDGE CT NE    | ROCKLEDGE DR             | CUL-DE-SAC               | 520         | 34   | 17680 | R  | 2   | A   | 90  | 83  | C    |     |
| ROCKLE    | K6405D  | ROCKLEDGE DR NE    | HOUSE # (MID-BLOCK)      | KOUFAX LN                | 91          | 34   | 3094  | R  | 2   | A   | 92  | 95  | CG   |     |
| ROWAN     | 7244    | ROWAN AVE N        | MANBRIN DR               | MENLO DR                 | 583         | 30   | 17490 | R  | 2   | A   | 63  | 61  |      |     |
| ROWAN     | 7244A   | ROWAN AVE N        | SO. DEAD END             | MANBRIN DR               | 425         | 30   | 12750 | R  | 2   | A   | 63  | 56  |      |     |
| ROZILL    | 7613    | ROZILLA CT NE      | 7265-BROOKS ST           | CUL-DE-SAC               | 369         | 34   | 12546 | R  | 2   | A   | 79  | 58  | CG   |     |
| RUSSET    | 6310    | RUSSETT DR N       | DEAD END                 | 24 WHEATLAND RD          | 1152        | 34   | 39168 | R  | 2   | A   | 76  | 70  | C    |     |
| SANDRA    | 6440    | SANDRA DR N        | RIVERCREST DR N          | DEAD END                 | 365         | 34   | 13090 | R  | 2   | A   | 91  |     | CG   |     |
| SANDRA    | 6441    | SANDRA CT N        | SANDRA DR                | CUL-DE-SAC               | 125         | 34   | 4280  | R  | 2   | A   | 91  |     | CG   |     |
| SANDRA    | 7486    | SANDRA AV N        | 7651-DORCUS DR           | DEAD END                 | 405         | 34   | 13770 | R  | 2   | A   | 73  | 42  | C    |     |

# Keizer Pipeline Corridor Road Section Description Report

| STREET ID | SECTION ID | STREET NAME        | BEGINNING LOCATION      | ENDING LOCATION       | WID    | AREA | SUR   | YR | GEN |     |     |       |
|-----------|------------|--------------------|-------------------------|-----------------------|--------|------|-------|----|-----|-----|-----|-------|
| ID        |            |                    |                         |                       | TH     | SEC  | F     | LA | CON | PCI | ADT |       |
|           |            |                    |                         |                       | LENGTH |      |       |    |     |     |     |       |
| SANDRA    | K7485A     | SANDRA AVE N       | END OF OLD PAVEMENT     | FALL CREEK RD         | 114    | 34   | 3878  | R  | 2   | A   | 92  | CG    |
| SANDWIE   | 6288       | SANDWEDGE CT NE    | 6287-SWINGWOOD DR       | CUL-DE-SAC            | 285    | 34   | 9690  | R  | 2   | A   | 69  | 74 C  |
| SANDY     | 6213       | SANDY DR N         | SCHOOL PKG LOT          | 24-RIVER RD           | 1261   | 24   | 30284 | R  | 2   | A   | 81  | 73    |
| SEAGAL    | 7373       | SEA GALE WY N      | 7595-SUMMER BREEZE DR N | CUL-DE-SAC            | 734    | 34   | 24956 | R  | 2   | A   | 80  | 69 C  |
| SHADOW    | K6492      | SHADOWWOOD CT NE   | BOARDWALK AVE           | CUL D SAC             | 232    | 31   | 7192  | R  | 2   | A   | 94  | CG    |
| SHADOW    | K6495      | SHADOWWOOD ST NE   | BOARDWALK AVE           | DEAD END              | 192    | 31   | 5982  | R  | 2   | A   | 94  | CG    |
| SHADY     | 7390A      | SHADY NE NE        | 705-CHERRY AV           | 7285-BROOKS ST        | 2072   | 23   | 47656 | R  | 2   | O   | 82  | 80    |
| SHADY     | 7390B      | SHADY LN NE        | 7285-BROOKS ST          | 7228-PLEASANT VIEW DR | 882    | 22   | 19404 | R  | 2   | O   | 89  | 78    |
| SHEPHE    | 6311       | SHEPHERD CT NE     | CUL-DE-SAC              | 6310-RUSSETT DR       | 580    | 34   | 18720 | R  | 2   | A   | 78  | 67 C  |
| SHIRLE    | K6292      | SHIRLEY CT. N.     | CHEHALIS DR.            | DEAD END              | 180    | 16   | 2880  | R  | 2   | A   | 83  |       |
| SHOREL    | 7299       | SHORELINE LP N     | 7246-SHORELINE DR       | 7246-SHORELINE DR     | 712    | 30   | 21360 | R  | 2   | O   | 89  | 85 C  |
| SIRLAN    | 6295       | SIR LANCELOT CT NE | 616-HARMONY DR          | CUL-DE-SAC            | 460    | 34   | 15640 | R  | 2   | O   | 92  | 100 C |
| SPRING    | 6304       | SPRINGTIME CT NE   | CUL-DE-SAC              | 619-CHEMAMA RD        | 748    | 34   | 25432 | R  | 2   | A   | 66  | 69 C  |
| SPRING    | 6436       | SPRING LEAF CT N   | WILLOW LAKE RD N        | CUL-DE-SAC            | 422    | 34   | 14348 | R  | 2   | A   | 91  | CG    |
| SPRING    | K6500      | SPRINGRIDGE DR NE  | WHEATLAND RD            | SYCAMORE CT           | 655    | 31   | 20305 | R  | 2   | A   | 94  | CG    |
| STEVEN    | 6297       | STEVEN AV N        | 6296-CYNTHIA ST         | 616-LOCKHAVEN DR      | 171    | 34   | 5814  | R  | 2   | A   | 81  | 77    |
| STEVEN    | 6298       | STEVEN CT N        | CUL-DE-SAC              | 6296-CYNTHIA ST       | 219    | 34   | 7446  | R  | 2   | A   | 80  | 77    |
| STONEH    | 6282A      | STONEHEDGE DR NE   | 6219 - 14TH AVE         | HSE #2000 STONEHEDGE  | 1805   | 34   | 61370 | R  | 2   | A   | 86  | 54 C  |
| STONEH    | 6282B      | STONEHEDGE DR NE   | HSE #2000 STONEHEDGE    | KOUFAX LN NE          | 747    | 34   | 25398 | R  | 2   | A   | 89  | 83 CG |
| STONEH    | 6282C      | STONEHEDGE CT NE   | CUL-DE-SAC              | 6219 - 14TH AVE       | 164    | 34   | 5578  | R  | 2   | A   | 77  | 68 C  |
| STONEH    | 6412       | STONEHEDGE CT NE   | 6282-STONEHEDGE DR      | 6406-ROCKLEDGE DR     | 872    | 34   | 28648 | R  | 2   | A   | 87  | 84 C  |
| STRAW     | 7609       | STRAW DR N         | DEAD END                | 7249-MANBRIN          | 754    | 23   | 17342 | R  | 2   | O   | 78  | 69    |
| SUMMER    | 6435       | SUMMER LEAF CT N   | WILLOW LAKE RD N        | CUL-DE-SAC            | 426    | 34   | 14484 | R  | 2   | A   | 91  | CG    |
| SUMMER    | 7595       | SUMMER BREEZE DR N | 7373-SEA GALE WY        | CUL-DE-SAC            | 1265   | 34   | 43010 | R  | 2   | A   | 75  | 69 C  |
| SWEST     | K6506      | S.WESTRIDGE CT N   | RUSSETT DR              | S. CUL D SAC          | 354    | 27   | 9558  | R  | 2   | A   | 94  | CG    |
| SWINGW    | 6287       | SWINGWOOD DR NE    | RIVER RD                | SWINGWOOD CT NE       | 380    | 34   | 12920 | R  | 2   | A   | 70  | 71 C  |
| SWINGW    | 6287A      | SWINGWOOD CT NE    | SWINGWOOD DR            | CUL-DE-SAC            | 555    | 34   | 18870 | R  | 2   | A   | 70  | 58 C  |
| SYCAMO    | K6502      | SYCAMORE CT NE     | SPRINGRIDGE DR          | CUL D SAC             | 238    | 31   | 7378  | R  | 2   | A   | 94  | CG    |
| TAKEIM    | 6275       | TAKEIMA CT NE      | CUL-DE-SAC              | 6276-MODOC DR         | 217    | 34   | 918   | R  | 2   | A   | 74  | 62 C  |
| TALAWA    | 6287       | TALAWA CT NE       | CUL-DE-SAC              | 6286-CHEETO CT        | 112    | 34   | 3808  | R  | 2   | A   | 94  | 100 C |
| TEPPER    | 6102       | TEPPER LN NE       | 6101 - MCLEOD LN        | 6103 - RADIANT DR     | 3472   | 21   | 72912 | R  | 2   | A   | 79  | 68    |

# Kaiser Public Works

## Road - Section Description Report

| STREET ID: | SECTION ID: | STREET NAME:          | BEGINNING LOCATION  | ENDING LOCATION         | WID     | AREA | SUR   | YR | GEN |     |     |     |     |      |     |
|------------|-------------|-----------------------|---------------------|-------------------------|---------|------|-------|----|-----|-----|-----|-----|-----|------|-----|
|            |             |                       |                     |                         | LENGTH: | -TH  | SEC:  | F  | LA  | TYP | CON | PCI | COD | _ID: | ADT |
| TODDCT     | 6422        | TODD CT N             | 6415-WILLOW LAKE RD | CUL-DE-SAC              | 416     | 34   | 14144 | R  | 2   | A   | 87  | 85  | C   |      |     |
| TONIAV     | 7218A       | TONI AV N             | 7217-LARRY ST       | 7249-MANBRIN DR         | 577     | 22   | 12694 | R  | 2   | O   | 85  | 83  |     |      |     |
| TONIAV     | 7218B       | TONI AV N             | 7249-MANBRIN DR     | N DEAD END              | 762     | 30   | 22860 | R  | 2   | A   | 66  | 67  |     |      |     |
| TRADEW     | 7650        | TRADE WIND AV N       | 7617-JUNIPER ST     | 701-CHEMAMA RD          | 607     | 34   | 20636 | R  | 2   | A   | 76  | 75  | C   |      |     |
| TROYST     | 7261        | TROY ST NE            | 7260-FILBERT ST     | 7285-BROOKS ST          | 713     | 21   | 14973 | R  | 2   | O   | 85  | 79  |     |      |     |
| TYNEL      | 6265        | TYNEL CT NE           | 6264 LAUDERBACK ST  | CUL-DE-SAC              | 495     | 34   | 16630 | R  | 2   | A   | 94  | 100 | C   |      |     |
| VENTUR     | 7266A1      | VENTURA AV N          | 7452-12TH AV        | 7415 - 10TH PL          | 940     | 34   | 31960 | R  | 2   | A   | 64  | 57  | C   |      |     |
| VENTUR     | 7266A2      | VENTURA AV N          | 7415-10TH PL        | 7246-SHORELINE DR       | 998     | 34   | 33932 | R  | 2   | O   | 88  | 83  | C   |      |     |
| VENTUR     | 7266B       | VENTURA ST N          | 7246-SHORELINE DR   | 7287-CARMEN AV          | 1368    | 34   | 46612 | R  | 2   | O   | 89  | 83  | C   |      |     |
| VENTUR     | 7265        | VENTURA LP N          | 711-DEARBORN AV     | 7286-VENTURA ST         | 860     | 34   | 29240 | R  | 2   | O   | 89  | 84  | C   |      |     |
| VERDA      | 703C        | VERDA LN NE           | 619-CHEMAMA RD      | HSE #5296 VERDA LN      | 1314    | 24   | 31536 | R  | 2   | A   | 73  | 51  |     |      |     |
| VERDA      | 703D        | VERDA LN NE           | HSE #5296 VERDA LN  | 618-LOCKHAVEN DR        | 2132    | 36   | 76762 | R  | 2   | A   | 94  | 100 | C   |      |     |
| VERDAC     | 7310        | VERDA CT NE           | CUL-DE-SAC          | 18TH AV                 | 284     | 30   | 8520  | R  | 2   | A   | 94  | 100 | C   |      |     |
| WALTM      | 6410        | WALTHAM CT NE         | CUL-DE-SAC          | 6412-STONEMASON LN      | 465     | 34   | 15810 | R  | 2   | A   | 89  | 83  | C   |      |     |
| WAYNE      | 7260B       | WAYNE DR N            | 7245-RIVERCREST DR  | 7244-ROWAN AV           | 838     | 30   | 25140 | R  | 2   | A   | 65  | 59  | C   |      |     |
| WEEKS      | 7344A       | WEEKS DR NE           | 24-RIVER RD         | 7345-POTTS DR           | 810     | 34   | 27540 | R  | 2   | O   | 84  | 78  | C   |      |     |
| WEEKS      | 7344B       | WEEKS DR NE           | 7345-POTTS DR       | 706-CHERRY AV           | 333     | 34   | 11322 | R  | 2   | O   | 88  | 83  | C   |      |     |
| WEISSN     | 7304        | WEISSNER AV NE        | 703-VERDA LN        | NORTSIDE DR.            | 1388    | 34   | 47532 | R  | 2   | A   | 89  | 85  | C   |      |     |
| WHISPE     | KG477       | WHISPER CREEK LOOP NE | LAZY CREEK DR.      | TEMP. DEAD ENDS (BOTH E | 371     | 31   | 11501 | R  | 2   | A   | 94  |     | CG  |      |     |
| WILLAM     | 7282A       | WILLAMETTE DR N       | S/C/L               | HSE#3380 WILLAMETTE     | 661     | 30   | 19830 | R  | 2   | O   | 92  | 100 | C   |      |     |
| WILLAM     | 7282B       | WILLAMETTE DR N       | HSE#3380 WILLAMETTE | DEAD END                | 378     | 34   | 12852 | R  | 2   | O   | 92  | 100 |     |      |     |
| WILLAP     | 6278        | WILLAPA ST NE         | WILLAPA CT NE       | MODOC                   | 386     | 34   | 13124 | R  | 2   | A   | 69  | 67  | C   |      |     |
| WILLAP     | 6278A       | WILLAPA CT NE         | CUL-DE-SAC          | WILLAPA ST              | 376     | 34   | 12784 | R  | 2   | A   | 69  | 67  | C   |      |     |
| WILLOW     | 6415        | WILLOW LAKE RD N      | END OF PAVE         | 63-WINDSOR ISLAND RD    | 2465    | 28   | 69580 | R  | 2   | A   | 89  | 87  |     |      |     |
| WILLOW     | KG497       | WILLOW LEAF ST N      | WILLOW LAKE RD N    | DEAD END                | 514     | 34   | 17476 | R  | 2   | A   | 92  |     | CG  |      |     |
| WILSHI     | 7266        | WILSHIRE DR N         | 7282-WILLAMETTE DR  | CL                      | 634     | 34   | 21566 | R  | 2   | O   | 89  | 87  | C   |      |     |
| WINTER     | KG494       | WINTER LEAF CT N      | WILLOW LAKE RD N    | CUL DE SAC              | 424     | 34   | 14416 | R  | 2   | A   | 92  |     | CG  |      |     |
| WOOLST     | 7272        | WOLF ST N             | 7343-CHURCHDALE AV  | 7273-JANET AV           | 433     | 23   | 9859  | R  | 2   | A   | 89  | 87  |     |      |     |
| WOODOR     | KG429       | WOODCREST CT N        | HAZELBROOK DR       | CUL DE SAC              | 168     | 34   | 5712  | R  | 2   | A   | 92  |     | CG  |      |     |
| WOODGR     | KG430       | WOODGROVE CT N        | HAZELBROOK DR       | CUL DE SAC              | 175     | 34   | 5950  | R  | 2   | A   | 92  |     | CG  |      |     |
| WOODLA     | 6273        | WOODLAWN DR NE        | LATONA DR           | WOODLAWN CT             | 540     | 34   | 18380 | R  | 2   | A   | 89  | 83  | C   |      |     |

# Road - Section Description Report

| STREET ID | SECTION ID | STREET NAME    | BEGINNING LOCATION | ENDING LOCATION  | LENGTH, -TH | WD AREA SEC. | SUR YR. LA TYP CON | GEN AREA COD | ADT   |
|-----------|------------|----------------|--------------------|------------------|-------------|--------------|--------------------|--------------|-------|
| WOODLA    | 6273A      | WOODLAWN CT NE | WOODLAWN DR        | CUL-DE-SAC       | 361         | 34           | 12274 R 2 A        | 89           | 79 C  |
| WOODWA    | 7642       | WOODWARD CT NE | 7644-WOODWARD STD  | CUL-DE-SAC       | 722         | 34           | 24548 R 2 A        | 80           | 72 C  |
| WOODWA    | 7644       | WOODWARD ST NE | 7285-BROOKS ST     | 7642-WOODWARD CT | 337         | 34           | 11456 R 2 A        | 80           | 75 C  |
| WOODWI    | 6437       | WOODWIND CT N  | WILLOW LAKE RD N   | CUL-DE-SAC       | 437         | 34           | 14856 R 2 A        | 91           | CG    |
| ZACHRI    | 6413       | ZACHRIS CT NE  | 6101-MCLEOD LN     | CUL-DE-SAC       | 690         | 34           | 23460 R 2 A        | 89           | 83 CG |

-ERROR- Column treatment not found

RECOMMENDED TREATMENTS

| ST_ID                                  | SEC_ID | STREET NAME     | SURF<br>PCI TYPE CLASS DISTRICT |    |
|----------------------------------------|--------|-----------------|---------------------------------|----|
| EVECT                                  | 7712   | EVE CT NE       | 49 A R                          |    |
| From: CUL-DE-SAC                       |        |                 | To: 7249-MANBRIN                |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 4088 Year:                | 95 |
|                                        |        |                 | Length: 245                     |    |
| CHERRY                                 | 705B   | CHERRY AV NE    | 46 O A                          |    |
| From: 7249-MANBRIN DR                  |        |                 | To: 7350-GREENWOOD DR           |    |
| Treatment: MEDIUM OVERLAY (2 in)       |        |                 | Cost: 8968 Year:                | 95 |
|                                        |        |                 | Length: 720                     |    |
| BATTIN                                 | 7369   | BATTING ST NE   | 51 A R                          |    |
| From: SIEBERG ST                       |        |                 | To: 7252-LEO ST                 |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 10749 Year:               | 95 |
|                                        |        |                 | Length: 644                     |    |
| WHEATL                                 | 24A    | WHEATLAND RD NE | 53 A A                          |    |
| From: 36-NORTH RIVER RD                |        |                 | To: 7693 WHEATLAND RD           |    |
| Treatment: MEDIUM OVERLAY (2 in)       |        |                 | Cost: 136613 Year:              | 95 |
|                                        |        |                 | Length: 7540                    |    |
| WHEATL                                 | 24B    | WHEATLAND RD NE | 47 A A                          |    |
| From: 7693 WHEATLAND RD                |        |                 | To: N-CL                        |    |
| Treatment: MEDIUM OVERLAY (2 in)       |        |                 | Cost: 46128 Year:               | 95 |
|                                        |        |                 | Length: 2546                    |    |
| DEARBO                                 | 711E   | DEARBORN AV NE  | 54 O R                          |    |
| From: 703-VERDA LN                     |        |                 | To: 7308-GOBERT                 |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 8764 Year:                | 95 |
|                                        |        |                 | Length: 525                     |    |
| KEIZER                                 | 702    | KEIZER RD NE    | 56 A C                          |    |
| From: 703-VERDA LN                     |        |                 | To: 702A-RIDGE DR               |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 20181 Year:               | 95 |
|                                        |        |                 | Length: 1868                    |    |
| ARCADE                                 | 6237B  | ARCADE AVE NE   | 54 A R                          |    |
| From: 6214-KALMIA DR                   |        |                 | To: LARCHWOOD ST                |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 23859 Year:               | 95 |
|                                        |        |                 | Length: 1429                    |    |
| DAWNCT                                 | 6300   | DAWN CT N       | 47 A R                          |    |
| From: CUL-DE-SAC                       |        |                 | To: 6296-CYNTHIA ST             |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 3505 Year:                | 95 |
|                                        |        |                 | Length: 210                     |    |
| HARMON                                 | 616B   | MCLEOD LANE NE  | 44 A R                          |    |
| From: 619-CHEMAWA RD                   |        |                 | To: 616-LOCKHAVEN DR            |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 6886 Year:                | 95 |
|                                        |        |                 | Length: 610                     |    |



# RECOMMENDED TREATMENTS

| ST ID         | SEC ID | STREET NAME                 | SURF<br>PCI TYPE CLASS DISTRICT |  |
|---------------|--------|-----------------------------|---------------------------------|--|
| ORCHAR 6408   |        | ORCHARD ST N                | 49 A R                          |  |
| From:         |        | 63-WINDSOR ISLAND RD        | To: 7236-JOAN DR                |  |
| Treatment:    |        | THIN AC OVERLAY(1.5 INCHES) | Cost: 7235 Year: 95             |  |
|               |        |                             | Length: 737                     |  |
| RIVER 24D     |        | RIVER RD N                  | 49 A A                          |  |
| From:         |        | 616-LOCKHAVEN DR            | To: 6287-SWINGWOOD DR           |  |
| Treatment:    |        | MEDIUM OVERLAY (2 in)       | Cost: 119282 Year: 95           |  |
|               |        |                             | Length: 3098                    |  |
| VERDA 703C    |        | VERDA LN NE                 | 51 A R                          |  |
| From:         |        | 619-CHEMAWA RD              | To: HSE #5296 VERDA LN          |  |
| Treatment:    |        | THIN AC OVERLAY(1.5 INCHES) | Cost: 15487 Year: 95            |  |
|               |        |                             | Length: 1314                    |  |
| DEARBO 711A   |        | DEARBORN AV N               | 51 A R                          |  |
| From:         |        | 7286-VENTURA AV             | To: 7246-SHORELINE DR           |  |
| Treatment:    |        | THIN AC OVERLAY(1.5 INCHES) | Cost: 6873 Year: 95             |  |
|               |        |                             | Length: 500                     |  |
| MCLEOD 6101D  |        | MCLEOD LN NE                | 54 A R                          |  |
| From:         |        | 6102-TEPPER LN              | To: HSE #6645 MCLEOD LN         |  |
| Treatment:    |        | THIN AC OVERLAY(1.5 INCHES) | Cost: 11637 Year: 95            |  |
|               |        |                             | Length: 697                     |  |
| STONEH 6282A  |        | STONEHEDGE DR NE            | 54 A R                          |  |
| From:         |        | 6219 - 14TH AVE             | To: HSE #2000 STONEHEDGE        |  |
| Treatment:    |        | THIN AC OVERLAY(1.5 INCHES) | Cost: 30135 Year: 95            |  |
|               |        |                             | Length: 1805                    |  |
| TRAIL 24B     |        | TRAIL AV NE                 | 54 O C                          |  |
| From:         |        | 616-HARMONY DR              | To: MANZANITA ST                |  |
| Treatment:    |        | THIN AC OVERLAY(1.5 INCHES) | Cost: 17507 Year: 95            |  |
|               |        |                             | Length: 1550                    |  |
| MEADOW K6218S |        | MEADOWLARK DR NE            | 48 O R                          |  |
| From:         |        | 14TH AVE NE                 | To: MISTWOOD DR NE              |  |
| Treatment:    |        | THIN AC OVERLAY(1.5 INCHES) | Cost: 10232 Year: 95            |  |
|               |        |                             | Length: 613                     |  |

## RECOMMENDED TREATMENTS

| ST_ID                                  | SEC_ID | STREET NAME     | SURF<br>PCI TYPE CLASS DISTRICT |    |
|----------------------------------------|--------|-----------------|---------------------------------|----|
| BIRCH                                  | 7627   | BIRCH AV N      | 33 A R                          |    |
| From: 7249-MANBRIN DR                  |        |                 | To: N DEAD END                  |    |
| Treatment: 1.5 in OVERLAY W/LEVELING   |        |                 | Cost: 14667 Year:               | 96 |
|                                        |        |                 | Length: 839                     |    |
| CHEMAW                                 | 619A   | CHEMAWA RD NE   | 59 O A                          |    |
| From: 24-RIVER RD                      |        |                 | To: 7325-7TH AV                 |    |
| Treatment: MEDIUM OVERLAY (2 in)       |        |                 | Cost: 21967 Year:               | 96 |
|                                        |        |                 | Length: 811                     |    |
| HOLLYH                                 | 7352   | HOLLYHOCK PL N  | 55 O R                          |    |
| From: 7257-5TH AV                      |        |                 | To: 24-RIVER RD                 |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 22381 Year:               | 96 |
|                                        |        |                 | Length: 1289                    |    |
| RIVERC                                 | 7245C  | RIVERCREST DR N | 55 A R                          |    |
| From: 100' S/7454-HOLLYHOCK PL         |        |                 | To: 7251-SUNSET AV              |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 29235 Year:               | 96 |
|                                        |        |                 | Length: 1590                    |    |
| VERDA                                  | 703B1  | VERDA LN NE     | 34 A A                          |    |
| From: DEARBORN RD                      |        |                 | To: CHEMAWA RD                  |    |
| Treatment: 2 in OVERLAY W/LEVELING     |        |                 | Cost: 15572 Year:               | 96 |
|                                        |        |                 | Length: 1105                    |    |
| RIDGED                                 | 702A   | RIDGE DR NE     | 60 A C                          |    |
| From: 702-KEIZER RD                    |        |                 | To: BALL FLD ENT'D              |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 23190 Year:               | 96 |
|                                        |        |                 | Length: 1892                    |    |
| CLAGGE                                 | 6271   | CLAGGETT ST NE  | 56 A R                          |    |
| From: 24-RIVER RD                      |        |                 | To: 6240-10TH AV                |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 34071 Year:               | 96 |
|                                        |        |                 | Length: 1962                    |    |
| RIVER                                  | 24B    | RIVER RD N      | 56 O A                          |    |
| From: 7249-MANBRIN DR                  |        |                 | To: 619-CHEMAWA RD              |    |
| Treatment: MEDIUM OVERLAY (2 in)       |        |                 | Cost: 130656 Year:              | 96 |
|                                        |        |                 | Length: 3698                    |    |
| SWINGW                                 | 6287A  | SWINGWOOD CT NE | 56 A R                          |    |
| From: SWINGWOOD DR                     |        |                 | To: CUL-DE-SAC                  |    |
| Treatment: THIN AC OVERLAY(1.5 INCHES) |        |                 | Cost: 9634 Year:                | 96 |
|                                        |        |                 | Length: 555                     |    |
| 14THAV                                 | 6219A  | 14TH AVE NE     | 31 A R                          |    |
| From: 616 LOCKHAVEN DR                 |        |                 | To: 616 HARMONY LN              |    |
| Treatment: 1.5 in OVERLAY W/LEVELING   |        |                 | Cost: 5707 Year:                | 96 |
|                                        |        |                 | Length: 245                     |    |

12/21/94

CITY OF KEIZER OREGON  
REHABILITATION  
TREATMENTS AND COSTS SUMMARIZED BY YEAR  
INFLATION RATE = 4 %  
(NUMBERS IN THOUSANDS)

1

| TREATMENTS                   | 95     | 96     | 97     | 98     | 99        | TOTALS  |
|------------------------------|--------|--------|--------|--------|-----------|---------|
| SLURRY SEAL                  |        |        |        |        |           |         |
| Quantity(SQ. YDS)            | 250.83 | 53.85  | 40.13  | 13.96  | 39.79     | 398.57  |
| Cost (\$)                    | 208.69 | 46.60  | 36.11  | 13.07  | 38.73 \$  | 343.20  |
| DO NOTHING                   |        |        |        |        |           |         |
| Quantity(SQ. YDS)            | 31.55  | 24.62  | 12.46  | 31.62  | 13.22     | 113.47  |
| Cost (\$)                    | 139.46 | 115.70 | 63.69  | 161.57 | 69.49 \$  | 549.90  |
| THICK AC OVERLAY(2.5 INCHES) |        |        |        |        |           |         |
| Quantity(SQ. YDS)            | 61.03  | 31.62  | 2.65   | 10.26  | 0.00      | 105.56  |
| Cost (\$)                    | 310.99 | 168.20 | 15.22  | 61.20  | 0.00 \$   | 555.61  |
| THIN AC OVERLAY(1.5 INCHES)  |        |        |        |        |           |         |
| Quantity(SQ. YDS)            | 8.53   | 5.05   | 0.00   | 0.00   | 0.00      | 13.57   |
| Cost (\$)                    | 37.69  | 23.19  | 0.00   | 0.00   | 0.00 \$   | 60.88   |
| 1.5 in OVERLAY W/LEVELING    |        |        |        |        |           |         |
| Quantity(SQ. YDS)            | 0.00   | 0.00   | 0.00   | 2.87   | 0.00      | 2.87    |
| Cost (\$)                    | 0.00   | 0.00   | 0.00   | 16.28  | 0.00 \$   | 16.28   |
| TOTAL QUANTITY(SQ. YDS)      | 351.94 | 115.14 | 55.24  | 58.71  | 53.01     | 634.04  |
| TOTAL COST (\$)              | 696.83 | 353.68 | 115.02 | 252.11 | 108.21 \$ | 1525.87 |

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+++--CRITERIA USED ALL

SECTIONS

SELECTED

CRACK SEALING COST IN LINEAR FEET

12/21/94

CITY OF KEIZER OREGON  
 PREVENTIVE MAINTENANCE  
 TREATMENTS AND COSTS SUMMARIZED BY YEAR  
 INFLATION RATE = 4 %  
 (NUMBERS IN THOUSANDS)

1

| TREATMENTS              | 95    | 96    | 97    | 98    | 99      | TOTALS |
|-------------------------|-------|-------|-------|-------|---------|--------|
| -----                   | ----- | ----- | ----- | ----- | -----   | -----  |
| SEAL CRACKS             |       |       |       |       |         |        |
| Quantity(SQ. YDS)       | 0.90  | 0.05  | 0.00  | 0.90  | 0.05    | 1.91   |
| Cost (\$)               | 0.25  | 0.02  | 0.00  | 0.28  | 0.02 \$ | 0.57   |
| DO NOTHING              |       |       |       |       |         |        |
| Quantity(SQ. YDS)       | 3.01  | 0.27  | 1.11  | 2.22  | 1.04    | 7.66   |
| Cost (\$)               | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 \$ | 0.00   |
| TOTAL QUANTITY(SQ. YDS) | 3.91  | 0.33  | 1.11  | 3.13  | 1.10    | 9.57   |
| TOTAL COST (\$)         | 0.25  | 0.02  | 0.00  | 0.28  | 0.02 \$ | 0.57   |

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| ++++CRITERIA USED ALL             | SECTIONS | SELECTED |
|-----------------------------------|----------|----------|
| CRACK SEALING COST IN LINEAR FEET |          |          |

12/21/94

CITY OF KEIZER OREGON  
SUMMARY PROJECTED PCI'S AND COSTS  
FOR 4% INFLATION FACTOR

PAGE 1

## NO TREATMENT APPLIED

## TREATMENT APPLIED

| PCI          | 95   | 96   | 97   | 98   | 99   | 95   | 96   | 97   | 98   | 99   |
|--------------|------|------|------|------|------|------|------|------|------|------|
| ----         | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| NETWORK MEAN | 79   | 74   | 72   | 70   | 69   | 67   | 78   | 78   | 77   | 78   |

## YEAR

## NEEDS

| YEAR | NEEDS        |
|------|--------------|
| ---- | -----        |
| 95   | \$697,088.00 |
| 96   | \$353,701.00 |
| 97   | \$115,021.00 |
| 98   | \$252,399.00 |
| 99   | \$108,231.00 |

-----  
\$1,526,440.00

07-Mar-95

## PROPOSED LIST FOR 1995 KEIZER RESURFACING

| ROAD NUMBER | NAME              | FROM                | TO                   | LENGTH | WIDTH | FC | PCI | ESTIMATED COST | NOTES        |
|-------------|-------------------|---------------------|----------------------|--------|-------|----|-----|----------------|--------------|
| K-7219      | CHERRY AVE. NE    | MANRIN DR.          | GREENWOOD DR.        | 720    | 22    | A  | 46  | \$8,968.00     | 2" OVERLAY   |
| K-724       | RIVER RD. N       | LOCKHAVEN DR.       | SHINGMODO DR.        | 3,098  | 64    | A  | 49  | \$119,282.00   | 2" OVERLAY   |
| K-24        | WHEATLAND RD. NE  | #7695 WHEATLAND RD. | KEIZER CITY LIMITS   | 2,546  | 32    | A  | 47  | \$46,128.00    | 2" OVERLAY   |
| K-24        | WHEATLAND RD. NE  | NORTH RIVER RD.     | #7695 WHEATLAND RD.  | 7,540  | 32    | A  | 23  | \$136,613.00   | 2" OVERLAY   |
| K-24        | KEIZER RD. NE     | VERDA RD.           | RIDGE DR.            | 1,868  | 22    | C  | 26  | \$20,181.00    | 1.5" OVERLAY |
| K-24        | KEIZER RD. NE     | MANRIN DR.          | MANRIN ST.           | 1,550  | 23    | C  | 24  | \$17,507.00    | 1.5" OVERLAY |
| K-6237      | ARCITE AVE. NE    | LOCKWOOD ST.        | LOCKWOOD ST.         | 1,429  | 34    | R  | 54  | \$23,639.00    | 1.5" OVERLAY |
| K-4300      | BATTLE ST. NE     | STEEBING ST.        | LEO ST.              | 644    | 34    | R  | 51  | \$10,749.00    | 1.5" OVERLAY |
| K-711       | DEARBORN AVE. NE  | CUL-DE-SAC          | CUL-DE-SAC           | 210    | 34    | R  | 57  | \$3,505.00     | 1.5" OVERLAY |
| K-711       | DEARBORN AVE. NE  | SUNBELT DR.         | SUNBELT DR.          | 520    | 28    | R  | 51  | \$6,973.00     | 1.5" OVERLAY |
| K-7712      | EWE CT. NE        | VERDA LN. AVE.      | VERDA LN. AVE.       | 325    | 34    | R  | 49  | \$2,084.00     | 1.5" OVERLAY |
| K-6101      | MCCLEOD LN. NE    | TEPPER LN.          | MANRIN DR.           | 265    | 34    | R  | 54  | \$1,637.00     | 1.5" OVERLAY |
| K-616       | MCCLEOD LN. NE    | CHERRY AVE.         | CUL-DE-SAC           | 697    | 34    | R  | 44  | \$1,637.00     | 1.5" OVERLAY |
| K-6218      | MEDOUARX DR NE    | LOCKHAVEN DR.       | LOCKHAVEN DR.        | 610    | 23    | R  | 48  | \$4,882.00     | 1.5" OVERLAY |
| K-6408      | ORCHARD ST. N     | WINDSOR IS.         | MISTWOOD DR.         | 613    | 30    | R  | 49  | \$10,232.00    | 1.5" OVERLAY |
| K-6282      | STONEHEDGE DR. NE | 14TH AVE.           | JOAN DR.             | 737    | 20    | R  | 48  | \$7,235.00     | 1.5" OVERLAY |
| K-703       | VERDA LN. NE      | CHERRY AVE.         | #2000 STONEHEDGE DR. | 1,805  | 34    | R  | 54  | \$30,135.00    | 1.5" OVERLAY |
|             |                   |                     | #5296 VERDA LN       | 1,314  | 24    | R  | 51  | \$15,487.00    | 1.5" OVERLAY |

## PROPOSED LIST FOR 1996 KEIZER RESURFACING

|        |                  |               |                 |       |    |   |    |              |              |
|--------|------------------|---------------|-----------------|-------|----|---|----|--------------|--------------|
| K-619  | CHEMAMA RD. NE   | RIVER RD.     | 7TH AVE.        | 811   | 46 | A | 59 | \$21,967.00  | 2" OVERLAY   |
| K-24   | RIVER RD. N      | MANRIN DR.    | CHEMAMA RD.     | 3,698 | 60 | A | 56 | \$130,656.00 | 2" OVERLAY   |
| K-703  | VERDA LN. NE     | DEARBORN AVE. | CHEMAMA RD.     | 1,105 | 23 | A | 34 | \$15,572.00  | 2" OVERLAY   |
| K-702  | RIDGE DR. NE     | KEIZER RD.    | BALL FIELD ENT. | 1,892 | 32 | C | 60 | \$23,190.00  | 1.5" OVERLAY |
| K-6219 | 14TH AVE. NE     | LOCKHAVEN DR. | HARNOY LN.      | 1,245 | 40 | R | 31 | \$5,707.00   | 1.5" OVERLAY |
| K-7627 | BIRCH AVE. NE    | MANRIN DR.    | DEMO-END        | 839   | 30 | R | 33 | \$14,667.00  | 1.5" OVERLAY |
| K-6271 | CLAGGETT ST. NE  | RIVER RD.     | 10TH AVE.       | 1,962 | 34 | R | 56 | \$34,071.00  | 1.5" OVERLAY |
| K-7352 | HOLLYMOCK PL. N  | 5TH AVE.      | RIVER RD.       | 1,289 | 34 | R | 55 | \$22,381.00  | 1.5" OVERLAY |
| K-7245 | RIVERCREST DR. N | HOLLYMOCK PL. | SUNSET AVE.     | 1,590 | 36 | R | 55 | \$29,235.00  | 1.5" OVERLAY |
| K-6287 | SHINGMODO CT. NE | SHINGMODO DR. | CUL-DE-SAC      | 555   | 34 | R | 56 | \$9,634.00   | 1.5" OVERLAY |

|                                 |              |
|---------------------------------|--------------|
| 1995 Total Feet                 | 26,651       |
| 1995 Total Miles                | 5.05         |
| 1996 Total Feet                 | 13,986       |
| 1996 Total Miles                | 2.65         |
| 1995 Resurfacing Estimated Cost | \$488,129.00 |
| 1996 Resurfacing Estimated Cost | \$307,080.00 |
| Total Keizer Estimated Cost     | \$795,209.00 |

## ESTIMATES

CONTRACT NUMBER: 95-156

PROJECT NUMBER: 1 K-24 FROM: 6425 WHEATLAND RD TO: 7580 WHEATLAND RD

ROAD NUMBER: 24 SEGMENT: K NAME: WHEATLAND RD NE

MILEAGE: 1.22

Mi. Width - Old: 32 New: 32

Notes

Quantity Units Unit Price

Total

225.490 FLAGGERS

250.00 HR \$34.00 \$8,500.00

225.510 PILOT CARS

16.00 HR \$36.00 \$576.00

490.100 ADJUSTING MANHOLES

30.00 EA \$50.00 \$1,500.00

490.200 ADJUSTING CATCH BASINS AND JUNCTION BOXES

1.00 EA \$50.00 \$50.00

490.300 ADJUSTING BOXES

20.00 EA \$50.00 \$1,000.00

620.100 COLD PLANE PAVEMENT REMOVAL

1,820.00 SY \$3.00 \$5,460.00

640.250 1/4"-0 AGGREGATE SHOULDERS

540.00 TN \$18.00 \$9,720.00

741.140 LIGHT DUTY CLASS "C" ASPHALT CONCRETE

380.00 TN \$32.00 \$12,160.00

741.240 STANDARD DUTY CLASS "C" ASPHALT CONCRETE

2,600.00 TN \$32.00 \$83,200.00

749.100 EXTRA FOR ASPHALT APPROACHES

54.00 EA \$250.00 \$13,500.00

749.150 EXTRA FOR ASPHALT ROAD CONNECTIONS

12.00 EA \$450.00 \$5,400.00

## ESTIMATES

25-Apr-95

\$141,463.00

PROJECT NUMBER: 2 K-6282 FROM: 14TH AVE TO: #2030 STONE HEDGE DR.

ROAD NUMBER: 6282 SEGMENT: K NAME: STONE HEDGE DR NE

MILEAGE: 0.35

Ml. Width - Old: 34 New: 34

Notes

| Quantity | Units | Unit Price | Total        |
|----------|-------|------------|--------------|
| 40.00    | HR    | \$34.00    | \$1,360.00   |
| 8.00     | HR    | \$36.00    | \$288.00     |
| 8.00     | EA    | \$50.00    | \$400.00     |
| 3.00     | EA    | \$50.00    | \$150.00     |
| 90.00    | TN    | \$32.00    | \$2,880.00   |
| 750.00   | TN    | \$32.00    | \$24,000.00  |
| 4.00     | EA    | \$450.00   | \$1,800.00   |
|          |       |            | \$30,878.00  |
|          |       |            | \$172,341.00 |

CONTRACT NUMBER: 95-158

PROJECT NUMBER: 1 K-6237 FROM: LARCHWOOD ST TO: KALAMIA DR.

ROAD NUMBER: 6237 SEGMENT: K NAME: ARCADE AVE NE

MILEAGE: 0.27

Ml. Width - Old: 34 New: 34

Notes

| Quantity | Units | Unit Price | Total       |
|----------|-------|------------|-------------|
| 32.00    | HR    | \$34.00    | \$1,088.00  |
| 4.00     | EA    | \$50.00    | \$200.00    |
| 1.00     | EA    | \$50.00    | \$50.00     |
| 1.00     | EA    | \$50.00    | \$50.00     |
| 440.00   | TN    | \$32.00    | \$14,080.00 |
| 2.00     | EA    | \$450.00   | \$900.00    |
|          |       |            | \$16,368.00 |

Item # Description

225.490 FLAGGERS

490.100 ADJUSTING MANHOLES

490.200 ADJUSTING CATCH BASINS AND JUNCTION BOXES

490.300 ADJUSTING BOXES

741.140 LIGHT DUTY CLASS "C" ASPHALT

CONCRETE

749.150 EXTRA FOR ASPHALT ROAD CONNECTIONS



## ESTIMATES

PROJECT NUMBER: 2 K-703 FROM: CHEMAWA RD TO: DEARBORN AVE

ROAD NUMBER: 703 SEGMENT: K NAME: VERDA LN NE

MILEAGE: 0.26

M. Width - Old: 22-28 New: 28-30

Notes

Item # Description

Quantity Units Unit Price Total

225.490 FLAGGERS

104.00 HR \$34.00 \$3,536.00

330.220 GENERAL EXCAVATION TO A NOMINAL

2,260.00 LF \$2.00 \$4,520.00

DEPTH OF 12"

350.200 PAVEMENT OVERLAY GEOTEXTILE

4,300.00 SY \$1.50 \$6,450.00

490.100 ADJUSTING MANHOLES

3.00 EA \$50.00 \$150.00

490.300 ADJUSTING BOXES

7.00 EA \$50.00 \$350.00

640.100 1"-0 AGGREGATE BASE

460.00 TN \$16.00 \$7,360.00

640.250 1/4"-0 AGGREGATE SHOULDERS

250.00 TN \$18.00 \$4,500.00

741.140 LIGHT DUTY CLASS "C" ASPHALT

152.00 TN \$32.00 \$4,864.00

CONCRETE

741.240 STANDARD DUTY CLASS "C" ASPHALT

670.00 TN \$32.00 \$21,440.00

CONCRETE

741.260 STANDARD DUTY CLASS "C" ASPHALT

230.00 TN \$32.00 \$7,360.00

CONCRETE IN BASE PLUG

749.100 EXTRA FOR ASPHALT APPROACHES

11.00 EA \$250.00 \$2,750.00

749.150 EXTRA FOR ASPHALT ROAD CONNECTIONS

2.00 EA \$450.00 \$900.00

1350.100 RELOCATE MAILBOX

4.00 EA \$125.00 \$500.00

\$64,680.00

PROJECT NUMBER: 3 K-702 FROM: VERDA LN TO: RIDGE DR

ROAD NUMBER: 702 SEGMENT: K NAME: KEIZER RD NE

MILEAGE: 0.34

M. Width - Old: 28-31 New: 28-31

Notes

Quantity Units Unit Price Total

Item # Description

100.00 HR \$34.00 \$3,400.00

490.100 ADJUSTING MANHOLES

10.00 EA \$50.00 \$500.00

490.300 ADJUSTING BOXES

3.00 EA \$50.00 \$150.00

620.100 COLD PLANE PAVEMENT REMOVAL

360.00 SY \$3.00 \$1,080.00

640.250 1/4"-0 AGGREGATE SHOULDERS

150.00 TN \$18.00 \$2,700.00

741.140 LIGHT DUTY CLASS "C" ASPHALT

81.00 TN \$32.00 \$2,592.00

CONCRETE

# ESTIMATES

25-4p-95

741.240 STANDARD DUTY CLASS "C" ASPHALT  
CONCRETE  
749.150 EXTRA FOR ASPHALT ROAD CONNECTIONS  
1070.400 RAISING MAIL BOX HEIGHTS

|        |    |          |              |
|--------|----|----------|--------------|
| 680.00 | TN | \$32.00  | \$21,760.00  |
| 4.00   | EA | \$450.00 | \$1,800.00   |
| 6.00   | EA | \$75.00  | \$450.00     |
|        |    |          | \$34,432.00  |
|        |    |          | \$115,480.00 |

TOTAL \$ 428,887.00

## ESTIMATES

27-Apr-95

5-1.95

CONTRACT NUMBER: 95-156

PROJECT NUMBER: 1 K-24 FROM: 6425 WHEATLAND RD TO: 7580 WHEATLAND RD

ROAD NUMBER: 24 SEGMENT: K NAME: WHEATLAND RD NE

MILEAGE: 1.22

Mi. Width - Old: 32 New: 32

Item # Description Notes

225.490 FLAGGERS

225.510 PILOT CARS

490.100 ADJUSTING MANHOLES

490.200 ADJUSTING CATCH BASINS AND JUNCTION  
BOXES

490.300 ADJUSTING BOXES

620.100 COLD PLANE PAVEMENT REMOVAL

640.250 1/4"-0 AGGREGATE SHOULDERS

741.140 LIGHT DUTY CLASS "C" ASPHALT  
CONCRETE741.240 STANDARD DUTY CLASS "C" ASPHALT  
CONCRETE

749.100 EXTRA FOR ASPHALT APPROACHES

749.150 EXTRA FOR ASPHALT ROAD CONNECTIONS

CONTRACT NUMBER: 95-157

PROJECT NUMBER: 1 K-24 FROM: LOCKHAVEN DR. TO: MANZANITA AVE.

ROAD NUMBER: 24 SEGMENT: K NAME: RIVER RD N Dropped

MILEAGE: 0.43

Mi. Width - Old: 66 New: 66

Item # Description Notes

225.490 FLAGGERS

490.100 ADJUSTING MANHOLES

490.300 ADJUSTING BOXES

620.100 COLD PLANE PAVEMENT REMOVAL

741.240 STANDARD DUTY CLASS "C" ASPHALT  
CONCRETE

990.400 REPLACE TRAFFIC SIGNAL LOOPS

Quantity Units Unit Price Total

250.00 HR \$34.00 \$8,500.00

16.00 HR \$36.00 \$576.00

30.00 EA \$50.00 \$1,500.00

1.00 EA \$50.00 \$50.00

20.00 EA \$50.00 \$1,000.00

1,820.00 SY \$3.00 \$5,460.00

540.00 TN \$18.00 \$9,720.00

380.00 TN \$32.00 \$12,160.00

2,600.00 TN \$32.00 \$83,200.00

54.00 EA \$250.00 \$13,500.00

12.00 EA \$450.00 \$5,400.00

\$141,066.00

\$141,066.00

Quantity Units Unit Price Total

.00 HR \$34.00 \$0.00

.00 EA \$50.00 \$0.00

.00 EA \$50.00 \$0.00

.00 SY \$3.00 \$0.00

.00 TN \$32.00 \$0.00

.00 LS \$5,100.00 \$0.00

\$0.00

27-Apr-95

**ESTIMATES**

PROJECT NUMBER: 2 K-6282 FROM: 14TH AVE TO: #2030 STONE HEDGE DR.

ROAD NUMBER: 6282 SEGMENT: K NAME: STONE HEDGE DR NE

MILEAGE: 0.35

Mi. Width - Old: 34 New: 34

| Item #  | Description                              | Notes | Quantity | Units | Unit Price  | Total       |
|---------|------------------------------------------|-------|----------|-------|-------------|-------------|
| 225.490 | FLAGGERS                                 |       | 40.00    | HR    | \$34.00     | \$1,360.00  |
| 225.510 | PILOT CARS                               |       | 8.00     | HR    | \$36.00     | \$288.00    |
| 490.100 | ADJUSTING MANHOLES                       |       | 8.00     | EA    | \$50.00     | \$400.00    |
| 490.300 | ADJUSTING BOXES                          |       | 3.00     | EA    | \$50.00     | \$150.00    |
| 741.140 | LIGHT DUTY CLASS "C" ASPHALT CONCRETE    |       | 90.00    | TN    | \$32.00     | \$2,880.00  |
| 741.240 | STANDARD DUTY CLASS "C" ASPHALT CONCRETE |       | 750.00   | TN    | \$32.00     | \$24,000.00 |
| 749.150 | EXTRA FOR ASPHALT ROAD CONNECTIONS       |       | 4.00     | EA    | \$450.00    | \$1,800.00  |
|         |                                          |       |          |       | \$30,878.00 | \$30,878.00 |

CONTRACT NUMBER: 95-158

PROJECT NUMBER: 1 K-6237 FROM: LARCHWOOD ST TO: KALAMIA DR.

ROAD NUMBER: 6237 SEGMENT: K NAME: ARCADE AVENUE

MILEAGE: 0.27

Mi. Width - Old: 34 New: 34

| Item #  | Description                               | Notes | Quantity | Units | Unit Price  | Total       |
|---------|-------------------------------------------|-------|----------|-------|-------------|-------------|
| 225.490 | FLAGGERS                                  |       | 32.00    | HR    | \$34.00     | \$1,088.00  |
| 490.100 | ADJUSTING MANHOLES                        |       | 4.00     | EA    | \$50.00     | \$200.00    |
| 490.200 | ADJUSTING CATCH BASINS AND JUNCTION BOXES |       | 1.00     | EA    | \$50.00     | \$50.00     |
| 490.300 | ADJUSTING BOXES                           |       | 1.00     | EA    | \$50.00     | \$50.00     |
| 741.140 | LIGHT DUTY CLASS "C" ASPHALT CONCRETE     |       | 440.00   | TN    | \$32.00     | \$14,080.00 |
| 749.150 | EXTRA FOR ASPHALT ROAD CONNECTIONS        |       | 2.00     | EA    | \$450.00    | \$900.00    |
|         |                                           |       |          |       | \$16,368.00 | \$16,368.00 |

PROJECT NUMBER: 2 K-703 FROM: CHENAWA RD TO: DEARBORN AVE

ROAD NUMBER: 703 SEGMENT: K NAME: VERDA LN NE

MILEAGE: 0.26

Mi. Width - Old: 22-28 New: 28-30

| Item # | Description | Quantity | Units | Unit Price | Total |
|--------|-------------|----------|-------|------------|-------|
|--------|-------------|----------|-------|------------|-------|

# ESTIMATES

27-Apr-95

225.490 FLAGGERS

330.220 GENERAL EXCAVATION TO A NOMINAL  
DEPTH OF 12"

350.200 PAVEMENT OVERLAY GEOTEXTILE

490.100 ADJUSTING MANHOLES

490.300 ADJUSTING BOXES

640.100 1"-0 AGGREGATE BASE

640.250 1/4"-0 AGGREGATE SHOULDERS

741.140 LIGHT DUTY CLASS "C" ASPHALT  
CONCRETE

741.240 STANDARD DUTY CLASS "C" ASPHALT  
CONCRETE

741.260 STANDARD DUTY CLASS "C" ASPHALT  
CONCRETE IN BASE PLUG

749.100 EXTRA FOR ASPHALT APPROACHES

749.150 EXTRA FOR ASPHALT ROAD CONNECTIONS

1350.100 RELOCATE MAILBOX

PROJECT NUMBER: 3 K-702 FROM: VERDA LN TO: RIDGE DR.

ROAD NUMBER: 702 SEGMENT: k NAME: KEIZER RD NE

MILEAGE: 0.34

Mt. Width - Old: 28-31 New: 28-31

Item # Description Notes

225.490 FLAGGERS

490.100 ADJUSTING MANHOLES

490.300 ADJUSTING BOXES

620.100 COLD PLANE PAVEMENT REMOVAL

640.250 1/4"-0 AGGREGATE SHOULDERS

741.140 LIGHT DUTY CLASS "C" ASPHALT  
CONCRETE

741.240 STANDARD DUTY CLASS "C" ASPHALT  
CONCRETE

749.150 EXTRA FOR ASPHALT ROAD CONNECTIONS

1070.400 RAISING MAIL BOX HEIGHTS

| Quantity | Units | Unit Price | Total      |
|----------|-------|------------|------------|
| 104.00   | HR    | \$34.00    | \$3,536.00 |
| 2,260.00 | LF    | \$2.00     | \$4,520.00 |

|          |    |         |            |
|----------|----|---------|------------|
| 4,300.00 | SY | \$1.50  | \$6,450.00 |
| 3.00     | EA | \$50.00 | \$150.00   |

|        |    |         |            |
|--------|----|---------|------------|
| 7.00   | EA | \$50.00 | \$350.00   |
| 460.00 | TN | \$16.00 | \$7,360.00 |

|        |    |         |            |
|--------|----|---------|------------|
| 250.00 | TN | \$18.00 | \$4,500.00 |
| 152.00 | TN | \$32.00 | \$4,864.00 |

|        |    |         |             |
|--------|----|---------|-------------|
| 670.00 | TN | \$32.00 | \$21,440.00 |
| 220.00 | TN | \$32.00 | \$7,360.00  |

|       |    |          |            |
|-------|----|----------|------------|
| 11.00 | EA | \$250.00 | \$2,750.00 |
| 2.00  | EA | \$450.00 | \$900.00   |

|      |    |          |             |
|------|----|----------|-------------|
| 4.00 | EA | \$125.00 | \$500.00    |
|      |    |          | \$64,680.00 |

|        |    |         |            |
|--------|----|---------|------------|
| 100.00 | HR | \$34.00 | \$3,400.00 |
| 10.00  | EA | \$50.00 | \$500.00   |

|        |    |         |            |
|--------|----|---------|------------|
| 3.00   | EA | \$50.00 | \$150.00   |
| 360.00 | SY | \$3.00  | \$1,080.00 |

|        |    |         |            |
|--------|----|---------|------------|
| 150.00 | TN | \$18.00 | \$2,700.00 |
| 81.00  | TN | \$32.00 | \$2,592.00 |

|        |    |          |             |
|--------|----|----------|-------------|
| 680.00 | TN | \$32.00  | \$21,760.00 |
| 4.00   | EA | \$450.00 | \$1,800.00  |

|      |    |         |             |
|------|----|---------|-------------|
| 6.00 | EA | \$75.00 | \$450.00    |
|      |    |         | \$34,432.00 |

|  |  |  |              |
|--|--|--|--------------|
|  |  |  | \$115,480.00 |
|--|--|--|--------------|

TOTAL 387,424.00

## NOTICE OF STREET PAVING PROJECT

Dear City of Keizer Resident:

The City of Keizer has awarded a contract to resurface your street this summer. The contract requires that the work be completed before September 30, 1994. The actual date of paving is set by the contractor subject to weather conditions and availability of labor and equipment.

You will find your street on the list printed on the back of this letter. This list shows the various streets that we are resurfacing in the City of Keizer in 1994. The project names are listed in alphabetical order followed by the project limits ("From" and "To") and the new width of the street, if any widening is planned. No streets that are currently curbed will be widened.

Traffic may experience some delays during construction, however, at least one lane of traffic will be open at all times. Driveway access to and from adjacent properties will be restricted periodically during the project. Driveway access will be closed for two hours after construction of the pavement to allow the material to harden.

Project management and construction inspection services will be performed by Marion County. A Marion County representative will be on the job during the majority of the project. If you need to talk to this person, please ask for the "Marion County Inspector".

The City of Keizer appreciates your patience during this time of construction. If you have any special needs or questions, please call Michael Rybka, Construction Manager, or Mike Yardley, Project Manager, Marion County Department of Public Works, at (503)588-5036.

Sincerely,

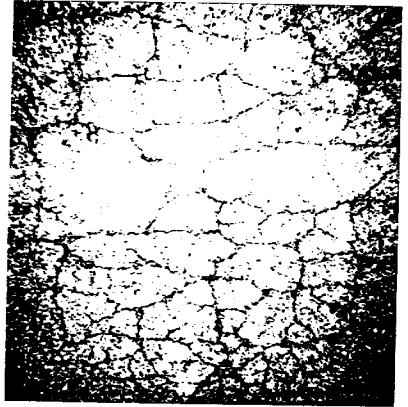
Wally Mull  
Public Works Director

MJY:dsp  
c: Contractor  
94keizerresrfnotice.mjy

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