TO: James L. App, City Manager
FROM: D oug Monn, Public Works Director

## SUBJECT: Street Maintenance Plan

DATE: July 2, 2013

NEEDS: For City Council to consider roads for maintenance/ rehabilitation over the next four years.

FACTS: 1. A temporary half percent Supplemental Sales Tax was approved by voters for implementation A pril 1, 2013.
2. On March 5, 2013, City Council identified 28 street segments as Phase I roads for repair.
3. Selected roads are primarily arterials and collectors. Three residential streets are included because they function as collectors.
4. Road deflection and core sample testing is complete. Options for maintenance treatments are identified (attached).
5. In addition to the cost for maintenance, estimated costs include work specific to each street segment. Examples include completion of missing sidewalks, disabled ramp upgrades, tree root removal, drainage, and bike lanes. Some street segments include costs to improve aging water and sewer infrastructure (costs for water and sewer will be funded from the Water and Sewer Funds).
6. The attached chart summarizes these costs. Additional pages detailing each road segment are also attached.

ANALYSIS\&
CONCLUSION: The majority of maintenance treatments being recommended would remove and replace limited areas where the road base has failed and overlay the entire road segment surface.

The 28 street segments identified by City Council as Phase I road repairs include approximately 16.3 miles of road surface. Over the next three to four years Supplemental Sales Tax revenue can fund 15, or approximately 9.1 miles, of the selected roads.

The following street segments are suggested for the initial effort:
Airport Road
Country Club Drive
Jackson
Rolling Hills
Shannon Hill
South River Road
Walnut
12th

## span

Scott to Pioneer Trail
Niblick to parking lot
Union to Shannon Hill
G olden Hill to Creston
Creston to Jackson
Navajo to Niblick
Creston to Union
Fresno to Vine

| Creston | Oak Meadow to Golden Hill |
| :--- | :--- |
| Scott | Creston to Airport |
| Spring Street | 1st to 36th |
| Union Road | Golden Hill to Highway 46 |
| Creston | South River Road to Rolling Hills |

Policy
REFERENCE: Resolution No. 13-031 adopting the Phase I road repair list
Fiscal
IMPACT:
Revenue and Expenditure Plan in the next four years is as follows:

|  | Projected Revenue <br> Half Cent Supplemental Sales Tax | Projected Expense |
| :---: | :---: | :---: |
| FY $13 / 14$ | $\$ 3,500,000$ | $\$ 1,765,000$ |
| FY $14 / 15$ | $\$ 3,650,000$ | plus $\$ 500,000$ for Union Road |$|$| $\$ 7,080,000$ |
| :---: |
| FY $15 / 16$ |$\$ 3,800,000 ~ \$ 4,855,000$

## OPTIONS:

a. Direct staff to
(1) proceed with the repair plan per attached Exhibit A, and
(2) engage engineering assistance to prepare plans and specifications.
b. Amend, modify, or reject the above option.

Prepared by: Ditas Esperanza, P.E., Capital Projects Engineer
Attachments: (1) Exhibit A: Recommended Plan ("Supplemental Sales Tax Estimates")
(2) Maintenance Treatment Options
(3) D etail sheets

Supplemental Sales Tax Estimates - five year summary

|  | FY12/ 13 | FY13/14 | PY 14/15 | FY15/16 | PY16/17 | 5 YR TOIAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REVENUE | \$0 | \$3,500,000 | \$3,650,000 | \$3,800,000 | \$3,950,000 | \$14,900,000 |

TIER1SREES

These are streets that can be ready for construction in 6 to 8 months

| Airport Road | from Scott to Pioneer Trail |
| :--- | :--- |
| Country Cub | from Niblick to parking lot |
| Jadson | from Union to Shannon Hill |
| Rolling Hills | from Golden Hill to Creston |
| Shannon Hill | from Creston to Jackson |
| South River Rd | from Navajo to Niblick |
| Walnut | from Creston to Union |

Note: need to reserve $\$ 500,000$ to supplement budget for Union Road - Kleck to Montebello project

SUMMER 2014 CONSTRUCTION

|  | 5- 7yrs | 10-15yrs | 20yrs |
| :--- | :---: | :---: | :---: |
| Airport Rd, <br> Scott to <br> Pioneer Trail | N/A | $\$ 180,000$ | $\$ 440,000$ |
| Country Club, <br> Niblick to <br> parking lot | N/A | $\$ 210,000$ | $\$ 800,000$ |
| Rolling Fills, <br> Golden Hill to <br> Creston | N/A | $\$ 650,000$ | $\$ 2,279,000$ |
| So River, <br> Navajo to <br> Niblick | $\$ 120,000$ | $\$ 330,000$ | $\$ 670,000$ |
| TOTAL | $\$ 120,000$ | $\$ 1,370,000$ | $\$ 4,189,000$ |

SUMMER 2015 CONSTRUCTION
SUMMR 2015 CONSTRUCTION

|  | $\mathbf{5 - 7} \mathbf{y r s}$ | $\mathbf{1 0 - 1 5 y r s}$ | $\mathbf{2 0 y r s}$ |
| :--- | :---: | :---: | :---: |
| Jadson, Union <br> to Shannon Hill | $\$ 70,000$ | $\$ 95,000$ | $\$ 370,000$ |
| Shannon Hill, <br> Crestonto <br> Jackson | N/A | $\$ 160,000$ | $\$ 618,000$ |
| Walnut, Creston <br> to Union | N/A | $\$ 350,000$ | $\$ 1,312,000$ |
| TOTAL | $\$ 70,000$ | $\$ 605,000$ | $\$ 2,300,000$ |

NOTE: Highlighted are those recommended for repair in the next four years

## EXHIBIT A

TIER2SIREES

| TIER3STREES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| These are streets that require 18 to 24 months to be ready for construction |  | BEGIN DESGG 2013-CONSTRUCTION 2017 |  |  |  |
|  |  |  | 5-7yrs | 10-15yrs | 20 yrs |
| 6th <br> 13th | from Olive to Spring from Chestnut to Vine | Union Rd, Golden Hill to Hwy 46 | N/A | \$555,000 | \$1,650,000 |
| Creston <br> Olive | from Sherwood to Scott <br> from south end to 6th | Creston, South River to Rolling Hills | N/A | \$4,300,000 | \$6,900,000 |
| Union Rd | from Golden Hill to Hwy 46 | TOTAL | N/A | \$4,855,000 | \$8,550,000 |
| Creston | from South River to Rolling Hills |  |  |  |  |
| Meadowlark <br> Oak | from Creston to east end from 23 rd to 24th | = 5 | recomm | dation (\$ 4,8 | ,000 total) |


| These are streets that require 3 months to be ready for construction |  |
| :---: | :---: |
| 12th | from Fresno to Vine |
| Creston | from Oak Meadow to Golden Hill |
| Lana | from Melody to Creston |
| Scott | from Creston to Via Ramona |
| Scott | from Via Ramona to Airport |
| Sherwood | fromCreston to Fontana |
| Springst | from 1st to 12th |
| SpringSt | from 12th to 24th |
| SpringSt | from 24 th to 36th |
| Vine | from 1st to 12th |
| Vine | from 12th to 24th |
| Vine | from 24 th to 36th |

$\square=$ staff recommendation (\$7,880,000 total)

## TIER3SIREMS

[^0]| STREET MAINTENANCE LIST No. 1 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (aka Altemate B) |  |  |  |  |  |
| MAINTENANCE TREATMENT OPTIONS, DPW 12-12 |  |  |  |  |  |
| une 13,2013 |  |  |  |  |  |
|  |  |  | Useful Life Expectancy |  |  |
| Street | From | To | 5 to 7 years | 10 to 15 years | 20 years |
| 6th | 0 live | Spring | * | \$565,000 | \$950,000 |
| 12th | Fresno | $V$ ine | * | \$1,030,000 | \$1,410,000 |
| 13th | Chestnut | $V$ ine | * | \$300,000 | \$380,000 |
| 24 th | Nacimiento Lake Drive | Highway 101 | * | \$4,274,000 | \$6,500,000 |
| Airport | Scott | Pioneer Trail Rd | * | \$180,000 | \$440,000 |
| Country Club | $N$ iblick | parking lot | * | \$210,000 | \$800,000 |
| Creston | Oak Meadow | G olden Hill | * | \$675,000 | \$1,170,000 |
| Creston | Sherwood | Scott | \$400,000 | \$775,000 | \$2,120,000 |
| Creston | South River | Rolling Hills | * | \$4,300,000 | \$6,900,000 |
| Jackson | Union | Shannon Hill | \$70,000 | \$95,000 | \$370,000 |
| La na | Melody | Creston | * | \$590,000 | \$980,000 |
| Meadowlark | Creston | east end | \$185,000 | \$750,000 | \$1,150,000 |
| O ak | 23 rd | 24th | * | \$200,000 | \$250,000 |
| 0 live | south end | 6 th | * | \$930,000 | \$1,300,000 |
| Rolling Hills | Golden Hill | Creston | * | \$650,000 | \$2,279,000 |
| Scott | Creston | $V i a$ Ramona | * | \$350,000 | \$600,000 |
| Scott | Via Ramona | Airport | \$320,000 | \$1,440,000 | \$2,796,000 |
| Shannon Hill | Creston | J ackson | * | \$160,000 | \$618,000 |
| Sherwood | Creston | Fontana | \$566,000 | \$800,000 | \$2,434,000 |
| South River | Navajo | $N$ iblick | \$120,000 | \$330,000 | \$670,000 |
| Spring | 1st | 12th | * | \$1,650,000 | \$4,300,000 |
| Spring | 12th | 24th | * | \$1,235,000 | \$4,600,000 |
| Spring | 24th | 36th | * | \$1,500,000 | \$4,200,000 |
| Union | G olden Hill | Highway 101 | * | \$555,000 | \$1,650,000 |
| $V$ ine | 1st | 12th | * | \$1,568,000 | \$2,940,000 |
| $V$ ine | 12 th | 24th | * | \$1,608,000 | \$3,712,000 |
| $V$ ine | 24 th | 36th | \$900,000 | \$1,221,000 | \$2,429,000 |
| W a Inut | Creston | Union | * | \$350,000 | \$1,312,000 |
|  |  | TOTAL | \$2,561,000 | \$28,291,000 | \$59,260,000 |
| * Road conditions preclude light surface treatment due to structural deficiencies and/ or severe cracking |  |  |  |  |  |


|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :--- | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 165,000$ <br> dig-outs of base <br> failure and overlay | $\$ 550,000$ <br> reconstruct up to <br> 10-inches depth |
| Pedestrian path issues: <br> Install missing curb, <br> gutter, sidewalks, and <br> curb ramps | - | $\$ 120,000$ | $\$ 120,000$ |
| Drainage issues: <br> Conventional design to <br> control run-off | - | $\$ 150,000$ | $\$ 150,000$ |
| Water Master Plan: <br> Upgrade waterline <br> 4-inch to 8-inch, Oak <br> to Spring | - | $\$ 130,000$ | $\$ 130,000$ |
| TOTAL | - | $\$ 565,000$ | $\$ 950,000$ |

Additional Comments

- Tier 3 street


## 12th Street - Fresno to Vine

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0} \mathbf{- 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :--- | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of structural <br> deficiencies and/or <br> pavement cracking | \$270,000 <br> dig-outs of base <br> failure and overlay | $\$ 650,000$ <br> reconstruct up to <br> 9-inches depth |
| Pedestrian path issues: <br> Install missing curb, <br> gutter, sidewalks, curb <br> ramps; and paint bike <br> lanes | - | $\$ 300,000$ | $\$ 300,000$ |
| Sewer Master Plan: <br> Upgrade sewer main <br> from 6-inch to 8-inch, <br> between Vine and Olive | - | $\$ 60,000$ | $\$ 60,000$ |
| Drainage issues: <br> Control run-off <br> by decreasing <br> under-utilized pervious <br> surfaces | - | $\$ 400,000$ | $\$ 400,000$ |

Additional Comments

- Tier 2 street
- This street segment is a candidate for new storm water handling features. Low Impact Development measures similar to 21st Street would cost an additional \$900,000


## 13th Street - Chestnut to Vine

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5 ~ y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :--- | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 100,000$ <br> dig-outs of base <br> failure and overlay | $\$ 180,000$ <br> reconstruct up to <br> 4.5 -inches depth |
| Pedestrian path issues: <br> Install missing curb, <br> gutte, sidewalks, and <br> curb ramps | - | $\$ 100,000$ | $\$ 100,000$ |
| Drainage issues: <br> Control run-off and <br> decrease under-utilized <br> pervious surfaces (by <br> reducing asphalt area, <br> less run-off) | - | $\$ 100,000$ | $\$ 100,000$ |
| TOTAL | - | $\$ 300,000$ | $\$ 380,000$ |

Additional Comments

- Tier 3 street

|  | 5-7 yr | 10-15 yr | 20 yr |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available because of structural deficiencies and/or pavement cracking | $\begin{aligned} & \$ 774,000 \\ & \text { cold-in-place } \\ & \text { recycling and place } \\ & \text { surface course } \end{aligned}$ | \$3,000,000 <br> reconstruction |
| Pedestrian path issues: Install improvements that would provide the following: <br> - Safer pedestrian path around Flamson School and Business Center (Riverside to Highway 101) <br> - Finish sidewalk connections on north side between Vine and Royal Court <br> - Finish sidewalk at SE corner 24th/Park <br> - Complete sidewalk project on Event Center frontage <br> - Stripe bike lanes at 24th Street Bridge <br> - Stripe Class II bike lanes, continuous center turn lane from Nacimiento Lake Drive to Vine Street <br> Note: No pedestrian path at bridge | - | \$3,500,000 | \$3,500,000 |
| TOTAL | - | \$4,274,000 | \$6,500,000 |

## Additional Comments

- Tier 3 street
- This street section is a candidate for Gateway Entry Treatment for an additional cost of \$800,000


## Airport Road - Scott to Pioneer Trail Road

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0} \mathbf{- 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :--- | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of <br> structural <br> deficiencies and/or <br> pavement cracking | \$70,000 <br> dig-outs of base <br> failure and overlay | \$330,000 <br> reconstruct up to <br> 12-inches depth |
| Pedestrian path issues: <br> Install curb ramps and <br> paint bike lanes | - | $\$ 70,000$ | $\$ 70,000$ |
| Median conversion: <br> Remove landscaping <br> and replace with drought <br> tolerant landscape <br> consistent with adopted <br> City Standards; install <br> pervious pavers | - | $\$ 40,000$ | $\$ 40,000$ |
|  | - | $\$ 180,000$ | $\$ 440,000$ |
| TOTAL |  |  |  |

Additional Comments

- Tier 1 street


## Country Club Drive - Niblick to parking lot

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of <br> structural | dig-outs of base <br> failure and overlay <br> deficiencies and/or <br> pavement cracking | $\$ 800,000$ <br> reconstruct up to <br> 10,75-inches <br> depth |
| TOTAL | - | $\$ 210,000$ | $\$ 800,000$ |

Additional Comments

- Tier 1 street

|  | $5-7 y r$ | $10-15 \mathrm{yr}$ | 20 yr |
| :--- | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of <br> structural <br> deficiencies and/or <br> pavement cracking | $\$ 375,000$ <br> cold-in-place <br> recycling and <br> placing surface <br> course | $\$ 870,000$ <br> reconstruct up to <br> 10-inches depth |
| Pedestrian path issues: <br> - Revise curb ramps <br> (very steep and no <br> landings) to meet ADA <br> standards; <br> - Extend curbs at <br> Lana intersection to <br> decrease pedestrian <br> distance to cross Lana | - | $\$ 300,000$ | $\$ 300,000$ |
| TOTAL | - | $\$ 675,000$ | $\$ 1,170,000$ |

Additional Comments

- Tier 2 street


## Creston Road - Sherwood to Scott

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :--- | :---: | :---: | :---: |
| Maintenance treatment | $\$ 400,000$ <br> place cape seal | $\$ 455,000$ <br> dig-outs of base <br> failure and overlay | $\$ 1,800,000$ <br> reconstruct up to <br> 8-inches depth |
| Pedestrian path issues: <br> Formalize stop sign at <br> Scott Street with a <br> raised median | - | $\$ 170,000$ | $\$ 170,000$ |
| Re-design: <br> Reduce pavement width <br> to two lanes + turn lane <br> te reduce run-off, <br> pavement maintenance, <br> and under-utilized <br> impervious surfaces | - | $\$ 150,000$ | $\$ 150,000$ |
| TOTAL | $\$ 400,000$ | $\$ 775,000$ | $\$ 2,120,000$ |

Additional Comments

- Tier 3 street

|  | 5-7 yr | $\mathbf{1 0}$ - 15 yr | 20 yr |
| :--- | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of <br> structural <br> deficiencies and/or <br> pavement cracking | grind and overlay <br> up to 4 inches | reconstruct up to <br> 10-inches depth |
| Extensive design: <br> - Pedestrian path <br> around schools, high <br> density residential <br> area, and churches <br> - Paint/install bike <br> lanes | - | $\$ 3,000,000$ |  |
| Note: Design/construction <br> of pedestrian paths would <br> be within existing right-of- <br> way; no property <br> acquisition | - | $\$ 3,000,000$ |  |
| TOTAL |  |  |  |

## Additional Comments

- Tier 3 street


## Jackson Drive - Union Road to Shannon Hill

|  | $\mathbf{5 - 7} \mathbf{~ y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | $\$ 70,000$ <br> base failure dig-outs <br> and thin overlay | $\$ 95,000$ <br> dig-outs of base <br> failure and overlay | $\$ 370,000$ <br> reconstruct up to <br> 10.5-inches depth |
| TOTAL | $\$ 70,000$ | $\$ 95,000$ | $\$ 370,000$ |

Additional Comments

- Tier 1 street

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | $\mathrm{N} / \mathrm{A}$ <br> not available <br> because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 240,000$ <br> base failure dig-outs <br> and overlay | $\$ 630,000$ <br> reconstruct up to <br> 10.5-inches depth |
| Pedestrian path issues: <br> - Install curb ramps <br> - Add bike lanes | - | $\$ 350,000$ | $\$ 350,000$ |
| TOTAL | - | $\$ 590,000$ | $\$ 980,000$ |

Additional Comments

- Tier 2 street


## Meadowlark Road - Creston Road to east end

|  | $5-7 y r$ | $10-15 \mathrm{yr}$ | 20 yr |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | $\$ 185,000$ <br> place thin overlay | $\$ 500,000$ <br> dig-outs of base <br> failure and overlay | reconstruct up to 10- <br> inches depth |
| Pedestrian path issues: <br> - Install curb <br> extensions and LED <br> crosswalk <br> - Stripe for bike lanes | - | $\$ 250,000$ | $\$ 250,000$ |
| TOTAL | $\$ 185,000$ | $\$ 750,000$ | $\$ 1,150,000$ |

Additional Comments

- The Beechwood Specific Plan has shown the elimination of Meadowlark (transform into park trail) from Beechwood to east City limits; no investment should be made in this segment until the Specific Plan is adopted.
- Tier 3 street


## Oak Street - 23rd to 24th

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A | $\$ 110,000$ <br> base failure <br> dig-outs and <br> overlay | $\$ 160,000$ <br> reconstruct up to <br> 6-inches depth |
| Pedestrian path issues: <br> Install curb ramps and <br> bike lanes as this is a <br> de facto parking lot for <br> Flamson School sports <br> events | - | $\$ 90,000$ | $\$ 90,000$ |
| TOTAL | - | $\$ 200,000$ | $\$ 250,000$ |

Additional Comments

- Tier 3 street


## Olive Street - south end to 6th

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> necause of structural <br> deficiencies and/or <br> pavement cracking | $\$ 130,000$ <br> base failure <br> dig-outs and <br> overlay | $\$ 500,000$ <br> reconstruct up to <br> 10-inches depth |
| Pedestrian path issues: <br> Install curb ramps and <br> missing sidewalks | - | $\$ 800,000$ | $\$ 800,000$ |
| TOTAL | - | $\$ 930,000$ | $\$ 1,300,000$ |

Additional Comments

- Tier 3 street

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> necause of structural <br> deficiencies and/or <br> pavement cracking | $\$ 500,000$ <br> base failure <br> dig-outs and <br> overlay | reconstruct up to <br> 11.5-inches depth |
| Pedestrian path issues: <br> Install curb ramps and <br> paint bike lanes <br> (both sides) | - | $\$ 150,000$ | $\$ 150,000$ |
| TOTAL | - | $\$ 650,000$ | $\$ 2,279,000$ |

Additional Comments

- Tier 1 street


## Scott Street - Creston Road to Via Ramona

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 150,000$ <br> base failure <br> dig-outs and <br> overlay | reconstruct up to <br> 8.5-inches depth |
| Pedestrian path issues: <br> Install sidewalks and <br> paint bike lanes | - | $\$ 200,000$ | $\$ 200,000$ |
| TOTAL | - | $\$ 350,000$ | $\$ 600,000$ |

Additional Comments

- Tier 2 street


## Scott Street - Via Ramona to Airport

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | $\$ 320,000$ <br> base failure <br> dig-outs and <br> place thin overlay | $\$ 440,000$ <br> base failure <br> dig-outs and <br> overlay | reconstruct up to <br> 10.5-inches depth |
| Pedestrian path issues: <br> Install curb ramps and <br> paint bike lanes | - | $\$ 400,000$ | $\$ 400,000$ |
| Tree roots: <br> Remove tree root <br> intrusions on pavement <br> and curb ramps | - | $\$ 300,000$ | $\$ 300,000$ |
| Medians: <br> Replace trees in <br> medians with drought <br> tolerant plants or <br> pervious pavement | - | $\$ 300,000$ | $\$ 300,000$ |
| TOTAL | $\$ 320,000$ | $\$ 1,440,000$ | $\$ 2,796,000$ |

Additional Comments

- Tier 2 street


## Shannon Hill - Creston Road to Jackson

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A | $\$ 160,000$ | $\$ 618,000$ |
|  | not available <br> because of <br> structural <br> deficiencies <br> and/or pavement <br> cracking | base failure <br> dig-outs and <br> overlay | reconstruct up to <br> 10.5-inches depth |
| TOTAL | - | $\$ 160,000$ | $\$ 618,000$ |

Additional Comments

- Tier 1 street


## Sherwood Road - Creston Road to Fontana

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0} \mathbf{- 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | $\$ 566,000$ <br> dig-outs of base <br> failure and place <br> thin overlay | $\$ 600,000$ <br> dig-outs of base <br> failure and overlay | $\$ 2,234,000$ <br> reconstruct up to <br> 12 -inches depth |
| Re-design: <br> Remove north side <br> parking area and <br> establish green <br> median, thereby <br> reducing pavement <br> area and eliminating <br> under-utilized <br> impervious surfaces | - | $\$ 200,000$ | $\$ 200,000$ |
| TOTAL | $\$ 566,000$ | $\$ 800,000$ | $\$ 2,434,000$ |

Additional Comments

- Tier 2 street


## South River Road - Navajo to Niblick

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | $\$ 120,000$ <br> place cape seal | $\$ 160,000$ <br> base failure <br> dig-outs and <br> overlay | reconstruct up to <br> 8-inches depth |
| Pedestrian path issues: <br> Upgrade curb ramps | - | $\$ 170,000$ | $\$ 170,000$ |
| TOTAL | $\$ 120,000$ | $\$ 330,000$ | $\$ 670,000$ |

Additional Comments

- Tier 1 street


## Spring Street - 1st Street to 12th Street

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available because <br> of structural <br> deficiencies and/or <br> pavement cracking | $\$ 1,350,000$ <br> base failure <br> dig-outs and <br> overlay | $\$ 4,000,000$ <br> reconstruct up to <br> 12 -inches depth |
| Drainage issues: <br> Upgrade drain inlets | - | $\$ 300,000$ | $\$ 300,000$ |
| TOTAL | - | $\$ 1,650,000$ | $\$ 4,300,000$ |

Additional Comments

- Last reconstruction was 20 years ago
- All curb ramps have been upgraded
- Tier 2 street


## Spring Street - 12th Street to 24th

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available | $\$ 1,035,000$ <br> cold-in-place <br> recyling and <br> surface course | reconstruct up to <br> 12-inches depth |
| because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 2000000$ |  |  |
| Drainage issues: <br> Upgrade drain inlets | - | $\$ 200,000$ | $\$ 200,000$ |
| TOTAL | - | $\$ 1,235,000$ | $\$ 4,600,000$ |

Additional Comments

- Last reconstruction was 20 years ago
- All curb ramps have been upgraded
- Tier 2 street


## Spring Street - 24th Street to 36th

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available | $\$ 1,300,000$ <br> cold-in-place <br> recycling and <br> surface course | $\$ 4,000,000$ <br> reconstruct up to <br> 12-inches depth |
| because of structural <br> deficiencies and/or <br> pavement cracking | W200,000 | $\$ 200,000$ |  |
| Water facilities: <br> Perform maintenance <br> on leaky services and <br> old valves | - | $\$ 1,500,000$ | $\$ 4,200,000$ |
| TOTAL | - |  |  |

Additional Comments

- Tier 2 street


## Union Road - Golden Hill to Highway 46

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> necause of structural <br> deficiencies and/or <br> pavement cracking | $\$ 305,000$ <br> grind and overlay | $\$ 1,400,000$ <br> reconstruct up to <br> 10 -inches depth |
| Pedestrian path issues: <br> Install missing ramps <br> and sidewalk, and paint <br> bike lanes | - | $\$ 250,000$ | $\$ 250,000$ |
| TOTAL | - | $\$ 555,000$ | $\$ 1,650,000$ |

Additional Comments

- Tier 3 street


## Vine Street - 1st Street to 12th Street

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available | $\$ 1,168,000$ <br> base failure <br> dig-outs and <br> overlay | $\$ 2,540,000$ <br> reconstruct up to <br> 11.5-inches depth |
| because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 400,000$ | $\$ 400,000$ |  |
| Pedestrian path issues: <br> Upgrade curb ramps | - | $\$ 1,568,000$ | $\$ 2,940,000$ |
| TOTAL | - |  |  |

Additional Comments

- Last reconstruction was 16 to 18 years ago
- Tier 2 street


## Vine Street - 12th Street to 24th

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 1,008,000$ <br> base failure <br> dig-outs and <br> overlay | reconstruct up to <br> 11.5-inches depth |
| Pedestrian path issues: <br> Upgrade curb ramps <br> and install missing <br> sidewalks | - | $\$ 600,000$ | $\$ 600,000$ |
| TOTAL | - | $\$ 1,608,000$ | $\$ 3,712,000$ |

Additional Comments

- Last reconstruction was 16 to 18 years ago
- Tier 2 street


## Vine Street - 24th Street to 36th

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | $\$ 300,000$ <br> base failure dig-outs <br> and place thin <br> overlay | $\$ 321,000$ <br> base failure <br> dig-outs and <br> overlay | $\$ 1,529,000$ <br> reconstruct up to <br> 11.5-inches depth |
| Pedestrian path issues: <br> Upgrade curb ramps | not needed | $\$ 300,000$ | $\$ 300,000$ |
| Improve gravel section: <br> Pave gravel portion <br> behind Georgia Brown <br> School (curb, gutter <br> and sidewalks) | $\$ 600,000$ | $\$ 600,000$ | $\$ 600,000$ |
| TOTAL | $\$ 900,000$ | $\$ 1,221,000$ | $\$ 2,429,000$ |

Additional Comments

- Tier 2 street


## Walnut Drive - Creston Road to Union Road

|  | $\mathbf{5 - 7} \mathbf{y r}$ | $\mathbf{1 0 - 1 5} \mathbf{y r}$ | $\mathbf{2 0} \mathbf{y r}$ |
| :---: | :---: | :---: | :---: |
| Maintenance treatment | N/A <br> not available <br> because of structural <br> deficiencies and/or <br> pavement cracking | $\$ 350,000$ <br> base failure and <br> dig-outs overlay | $\$ 1,312,000$ <br> reconstruct up to <br> 9.5-inches depth |
| TOTAL | - | $\$ 350,000$ | $\$ 1,312,000$ |

Additional Comments

- Tier 1 street


[^0]:    $\square=$ staff recommendation (\$ 4,855,000 total)

