

# 2022 CAPITAL IMPROVEMENTS PLAN

## NORTHWEST LAKEWOOD SANITATION DISTRICT

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Martin/Martin, Inc. Project No.: 17.0638

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## I. INTRODUCTION

Martin/Martin, Inc. and Ramey Environmental Compliance have evaluated defective areas within the District’s sanitary sewer collection system as candidates for the 2022/2023 CIP Northwest Lakewood Sanitation District Improvements. The prioritization of the improvements is based on 2021 televising review resulting in recommendations by Martin/Martin for Board consideration. The 2022/2023 Improvements reflect those projects deemed to have priority and can be phased to fit within the anticipated budget.

This report contains a summary of projects completed during the 2020/2021/2022 Capital Improvement Projects with location and final costs for each repair.

Condition of pipes televised over the last year have been separated into four prioritization categories with an explanation for each Category definition outlined in Section III of this report.

A summary of recommended high priority repairs for 2022/2023 Improvements is included in Section VII of this report. A summary of estimated costs for each Category is provided in Section XI.

Corresponding maps are included in the Appendices, which provide locations of accelerated maintenance areas, “Hot Spot” recommendations, and future (on-going) jetting/televising schedules within the District.

## II. 2020/2021/2022 IMPROVEMENTS SUMMARY

The following summary of improvements and repairs were completed as part of the 2021/2022 Capital Improvements Plan. The improvements and repairs were based on 2019 and 2020 televising (CCTV) and reported in the 2020/2021 CIP report. 2021/2022 Improvements were significant and have been extended into 2022 for completion, which is on-going.

Thirty (30) point repairs, fifty-one (51) full linings, and six (6) manhole repairs were bid and awarded to Insituform in 2020/2021/2022. A summary of location(s) and cost of each repair is listed below. A final accounting is anticipated by end of October 2022:

### A. Point Repairs – 30 ea

#### Bid Schedule A:

|   |             |
|---|-------------|
| 10’ Point Repair – AD-1-1 to AD-1 – W. 31 <sup>st</sup> Pl .....    | \$16,574.00 |
| 2 5’ Point Repairs – BOD-2-2B to BOD-2-2A – Winfield Pl .....       | \$18,172.00 |
| 5’ Point Repair – A-56A-4 to A-56A-3 – Skyline Dr .....             | \$10,073.90 |
| 5’ Point Repair – BE-2 to BE-1 – Union St .....                     | \$11,225.00 |
| 5’ Point Repair – AB-10-6-4A to AB-10-6-3A – Taft Ct .....          | \$11,225.00 |
| 5’ Point Repair – AC-1 to A-30 – W. 32 <sup>nd</sup> Ave .....      | \$14,685.40 |
| 5’ Point Repair – BF-18-2 to BF-18-1 – W. 33 <sup>rd</sup> Pl ..... | \$11,225.00 |





|   |             |
|---|-------------|
| 5' Point Repair – BG-3A-LH to BG-3A – Urban Ct .....                  | \$11,225.00 |
| 5' Point Repair – C-3B-2-2 to C-3B-2-1 – W. 28 <sup>th</sup> Pl ..... | \$11,225.00 |
| 5' Point Repair – Z-7 to Z-6 – Alkire St.....                         | \$11,225.00 |
| 5' Point Repair – ZD-2-1 to ZD-2 – W. 22 <sup>nd</sup> Pl .....       | \$11,225.00 |
| 5' Point Repair – EA-4A-1 to EA-4A – W. 22 <sup>nd</sup> Pl .....     | \$22,183.00 |
| 5' Point Repair – E-8A-1 to E-8A – Easement .....                     | \$13,035.40 |
| *5' Point Repair – AB-11-2 to AB-11-1 – W. 28 <sup>th</sup> Ave ..... | \$11,225.00 |
| 20' Point Repair – ACA-1 to AC-2 – Simms St .....                     | \$24,048.00 |
| 2 5' Point Repairs – B-1 to A-27 – Easement .....                     | \$80,703.00 |
| 20' Point Repair – B-1A to B-1 – Easement .....                       | \$31,534.00 |
| 10' Point Repair – BF-16A to BF-16 – Youngfield Service Rd .....      | \$14,967.00 |
| 5' Point Repair – BG-2A to BG-2 – W. 35 <sup>th</sup> Ave .....       | \$11,495.00 |
| 2 5' Point Repairs – C-3A-1 to C-3A – W. 28 <sup>th</sup> Ave .....   | \$19,511.00 |
| 5' Point Repair – C-9-1 to C-9 – Queen St .....                       | \$17,104.00 |
| 5' Point Repair – C-12-2 to C-12D – Simms St .....                    | \$11,225.00 |
| 5' Point Repair – Z-7-3 to Z-7-2 – Alkire St .....                    | \$13,361.00 |
| 5' Point Repair – ZC-13 to ZC-12 – Braun Dr .....                     | \$13,361.00 |
| *2 5' Point Repairs – Z-3 to Z-2 – Alkire St .....                    | \$14,966.00 |
| *10' Point Repair – B-11R-7-2-1 to B-11R-7-2 – Easement .....         | \$17,642.00 |
| 20' Point Repair – AG-3 to AG-2 – Easement .....                      | \$29,388.00 |
| 5' Point Repair – A-56A-2 to A-56A-1 – Easement/Paramount Pkwy .....  | \$32,273.40 |
| 10' Point Repair – BH-1-6 to BH-1-5 – Winfield Dr .....               | \$14,967.00 |
| *5' Point Repair – BP-1A to BP-1 – Easement .....                     | \$11,225.00 |
| <i>Sub-total A - \$542,294.10</i>                                     |             |

B. Full Linings

Bid Schedule B:

|   |             |
|---|-------------|
| 220 LF – B-11R-32-1A to B-11R-32-1 – Union Way .....      | \$8,800.00  |
| 2 Service Reconnection.....                               | \$366.00    |
| 324 LF – AP-1 to A-51 – W. 30 <sup>th</sup> Ave.....      | \$11,016.00 |
| 8 Service Reconnection.....                               | \$752.00    |
| 247 LF – B-94 to B-93 – Zinnia St .....                   | \$9,386.00  |
| 5 Service Reconnection.....                               | \$515.00    |
| 303 LF – BW-1A-4 to BW-1A-3 – Xenophon St .....           | \$10,605.00 |
| 4 Service Reconnection.....                               | \$448.00    |
| 300 LF – BOA-5-1 to BOA-5 – Zinnia St .....               | \$10,500.00 |
| 5 Service Reconnection.....                               | \$525.00    |
| 378 LF – RO-11A-3A to RO-11A-3 – Easement/Nelson Dr ..... | \$73,130.00 |
| 2 Service Reconnection .....                              | \$644.00    |
| 425 LF – RO-11A-3A to RO-11A-4 – Easement/Nelson Dr ..... | \$67,896.00 |
| 2 Service Reconnection .....                              | \$662.00    |
| 116 LF – JA-2 to JA-1 – Willow Ln .....                   | \$6,496.00  |
| 3 Service Reconnection.....                               | \$351.00    |



|  |             |
|--|-------------|
| *402 LF – GF-13 to GF-12 – Linda Vista Dr .....                | \$12,864.00 |
| 6 Service Reconnection .....                                   | \$612.00    |
| 396 LF – A-28 to A-27 – Easement .....                         | \$20,592.00 |
| 2 Service Reconnection .....                                   | \$482.00    |
| 131 LF – AB-3 to AB-2 – W. 26 <sup>th</sup> Ave Easement ..... | \$6,943.00  |
| 2 Service Reconnection .....                                   | \$280.00    |
| 378 LF – AB-7A-2 to AB-7A-1 – W. 28 <sup>th</sup> Pl .....     | \$12,852.00 |
| 7 Service Reconnection .....                                   | \$776.00    |
| 294 LF – AB-10 to AB-9 – Robb Cir .....                        | \$10,290.00 |
| 5 Service Reconnection .....                                   | \$525.00    |
| 68 LF – AB-10-5 to AB-10-4 – 28 <sup>th</sup> Pl .....         | \$5,712.00  |
| 201 LF – AB-10-6-1 to AB-10-6 – Applewood Knolls Dr .....      | \$8,241.00  |
| 2 Service Reconnection .....                                   | \$288.00    |
| 197 LF – AB-10-6-1A to AB-10-6-1 – Taft Ct .....               | \$8,274.00  |
| 2 Service Reconnection .....                                   | \$288.00    |
| 300 LF – AB-10-6-3A to AB-10-6-2A – Taft Ct .....              | \$10,500.00 |
| 6 Service Reconnection .....                                   | \$600.00    |
| 299 LF – AB-10-9-5 to AB-10-9-4 – Taft St .....                | \$10,465.00 |
| 3 Service Reconnection .....                                   | \$375.00    |
| 285 LF – AB-11-2 to AB-11-1 – W. 28 <sup>th</sup> Ave .....    | \$10,260.00 |
| 5 Service Reconnection .....                                   | \$625.00    |
| 248 LF – ACC-1 to ACA-2 – W. 30 <sup>th</sup> Pl .....         | \$11,160.00 |
| 3 Service Reconnection .....                                   | \$357.00    |
| 300 LF – AD-1-2 to AD-1-1 – W. 31 <sup>st</sup> Pl .....       | \$10,500.00 |
| 6 Service Reconnection .....                                   | \$600.00    |
| 125 LF – AD-5 to AD-4 – Routt Cir .....                        | \$6,625.00  |
| 2 Service Reconnection .....                                   | \$280.00    |
| 162 LF – AD-6-1 to AD-6 – W. 29 <sup>th</sup> Pl .....         | \$7,452.00  |
| 1 Service Reconnection .....                                   | \$210.00    |
| *73 LF – B-4 to B-3 – Easement .....                           | \$9,490.00  |
| 66 LF – B-2A-2 to B-2A-1 – Easement .....                      | \$5,610.00  |
| 180 LF – C-1A-4-2-1 to C-1A-4-2 – Owens Ct .....               | \$7,740.00  |
| 2 Service Reconnection .....                                   | \$280.00    |
| 172 LF – C-8A-4 to C-8A-3 – W. 25 <sup>th</sup> Pl .....       | \$6,020.00  |
| 5 Service Reconnection .....                                   | \$500.00    |
| 299 LF – RO-29 to RO-28 – Easement .....                       | \$70,265.00 |
| 322 LF – ZC-13-3 to ZC-13-2 – Braun Dr .....                   | \$10,948.00 |
| 8 Service Reconnection .....                                   | \$752.00    |
| 254 LF – ZD-5-1 to ZD-5 – W. 25 <sup>th</sup> Pl .....         | \$9,652.00  |
| 3 Service Reconnection .....                                   | \$369.00    |
| 92 LF – ZD-5-2 to ZD-5-1 – W. 25 <sup>th</sup> Pl .....        | \$5,888.00  |
| 2 Service Reconnection .....                                   | \$274.00    |
| 224 LF – ZD-6 to ZD-5 – W. 26 <sup>th</sup> Ave .....          | \$6,496.00  |



|   |                                   |
|---|-----------------------------------|
| 4 Service Reconnection .....                                    | \$380.00                          |
| 225 LF – ZD-7 to ZD-6 – W. 26 <sup>th</sup> Ave .....           | \$6,525.00                        |
| 4 Service Reconnection .....                                    | \$380.00                          |
| 326 LF – ZD-7-1 to ZD-7 – Devinney Ct .....                     | \$11,084.00                       |
| 6 Service Reconnection .....                                    | \$600.00                          |
| 109 LF – ZH-1 to Z-20 – Creighton Dr .....                      | \$4,251.00                        |
| 2 Service Reconnection .....                                    | \$244.00                          |
| 105 LF – ZH-2 to ZH-1 – Creighton Dr .....                      | \$4,095.00                        |
| 1 Service Reconnection .....                                    | \$122.00                          |
| 195 LF – ZJ-1 to Z-21 – Coors Dr .....                          | \$6,666.00                        |
| 2 Service Reconnection .....                                    | \$252.00                          |
| 118 LF – ZJ-2 to ZJ-1 – W. 26 <sup>th</sup> Ave .....           | \$3,894.00                        |
| 1 Service Reconnection .....                                    | \$126.00                          |
| 398 LF – Z-3 to Z-2 – Alkire St .....                           | \$12,736.00                       |
| 2 Service Reconnection .....                                    | \$314.00                          |
| 107 LF – A-37B-1-2 to A-37B-1-1 – Nelson Ct .....               | \$6,206.00                        |
| 2 Service Reconnection .....                                    | \$276.00                          |
| *265 LF – AG-5 to AG-4 – Easement .....                         | \$9,805.00                        |
| 3 Service Reconnection .....                                    | \$372.00                          |
| 199 LF – RO-12 to RO-11A – Easement .....                       | \$31,044.00                       |
| 1 Service Reconnection .....                                    | \$330.00                          |
| 401 LF – RO-11A-5 to RO-11A-4 – W. 38 <sup>th</sup> Pl .....    | \$56,541.00                       |
| 297 LF – BF-1A-A to B-5A – W. 34 <sup>th</sup> Pl .....         | \$17,226.00                       |
| 1 Service Reconnection .....                                    | \$383.00                          |
| 296 LF – GK-3A-B to GK-3A-A – Robb St .....                     | \$10,360.00                       |
| 12 Service Reconnection .....                                   | \$1,044.00                        |
| 11 LF – B-5A to B-5 – Easement .....                            | \$66,803.00                       |
| Bypass Pumping .....  | \$22,150.43                       |
| *328 LF – B-11R-7-1 to B-11R-7 – W. 29 <sup>th</sup> Pl .....   | \$10,824.00                       |
| 1 Service Reconnection .....                                    | \$484.00                          |
| *296 LF – B-11R-7-2 to B-11R-7-1 – W. 29 <sup>th</sup> Pl ..... | \$9,176.00                        |
| 5 Service Reconnection .....                                    | \$1,605.00                        |
| *101 LF – B11R-7-3 to B-11R-7-2 – W. 29 <sup>th</sup> Pl .....  | \$3,131.00                        |
| 3 Service Reconnection .....                                    | \$963.00                          |
| *212 LF – B-26-2-1-A-A to B-26-2-1-A – Youngfield St .....      | \$8,692.00                        |
| 86 LF – B-2A-1 to B-2A-A1 – Easement .....                      | \$7,310.00                        |
|   | <b>Sub-total B - \$811,798.43</b> |

C. Manhole Repairs

Bid Schedule C1:

|  |             |
|--|-------------|
| MH Z-3: Alkire St near W. 29th Ave ..... | \$55,179.41 |
| MH Z-5: Alkire St near W. 28th Ave ..... | \$55,179.41 |
| MH ZC-14: Coors Dr near W. 20th Pl ..... | \$54,901.42 |



|   |                                  |
|---|----------------------------------|
| MH ZD-3-1: W. 23rd Pl near W. 26th Ave .....  | \$57,141.39                      |
| MH ZD-3-4: W. 23rd Pl near Creighton Dr ..... | \$58,215.94                      |
| MH ZC-7: Braun Dr near Braun Ct .....         | \$55,831.62                      |
|   | <i>Sub-total C- \$336,449.19</i> |

\*Denotes schedule to occur during NWLSD 2021 Improvements, but has not happened as of 08/19/2022

**TOTAL IMPROVEMENTS COST: \$1,690,540.92**

### III. CATEGORY DEFINITIONS

Each mainline televised during 2020/2021 was provided a line condition status by Category. A Category was assigned for each sanitary segment based on existing physical attributes observed during television review. A definition of each category is outlined below:

- A. Category 1 – Mainlines in this condition category were determined to have satisfactory structural condition and were deemed able to provide additional years of dependable service with maintenance consisting of jet cleaning every three (3) years and televising every six (6) years.
- B. Category 2 – Mainlines in this condition category were determined to have minor structural issue(s) or minor vertical sags, root intrusions and/or grease issues during the televising review. Although an immediate repair is not necessary at this stage, Martin/Martin, Inc. recommends placing these mainlines on a “Hot Spot” list, requiring accelerated cleaning annually. Mainlines on the “Hot Spot” list within the current year’s zone will also be televised to verify the mainline condition status has not deteriorated. Areas outside the current year’s zone will be jetted only as accelerated maintenance.
- C. Category 3 - Mainlines in this condition category were determined to have significant structural issues, which include severe offsets, fractures, infiltration and/or heavy root intrusions. Martin/Martin, Inc. recommends repairing mainlines in this category due to severity of line condition. It is recommended to address the identified concerns during the next calendar year to proactively mitigate potential mainline failure and operational issues pending budget constraints. A prioritization of Category 3 improvements can be used to identify higher risk mainlines to fit the current budget.
- D. Category 4 - Mainlines in this condition category are considered emergency issues, which are coordinated directly with the District Board of Directors.

If a sanitary line does not fall within a Category, it is considered to not show existing defects and does not warrant closer scrutiny.



#### IV. 2020 & 2021 MAINTENANCE FOOTAGES COMPLETED, 2022 & 2023 ANTICIPATED SCHEDULED MAINTENANCE FOOTAGES

The District jet cleans lines every three (3) years and televises (CCTV) on a six (6) year rotation. This maintenance schedule allows for a more cohesive and coordinated effort, increasing efficiency.

In 2021, Zone C was televised and jet cleaned. In addition, the Category 2 pipes “Hot Spots” from the 2020 Capital Improvements Plan were jet-cleaned and televised as well. Included as part of the “Hot Spots” program is a root-cutting and mineral cleaning program.

Distances of each maintenance type completed (cleaning, televising) as well as the proposed schedule for 2022 and 2023 anticipated scheduled cleaning and televising lengths are indicated below:

##### **2020 – Jet Cleaning and Televising - Completed**

Total Length of Jet Cleaning – 169,161LF

- Zone B Scheduled Jet Cleaning – 128,364 LF
- Zone B “Hot Spot” Jet Cleaning – 3,738 LF
- Zone A & C “Hot Spot” Recommended Jet Cleaning – 37,059 LF

Note: 20,656 LF of Accelerated Maintenance for all zones is included above

Total Length of Televising – 22,146 LF

- Annual Root Cut Televising (All Zones) – 10,144 LF
- Annual Mineral Clean Televising (All Zones) – 8,264 LF
- Zone B “Hot Spot” Televising – 3,738 LF

##### **2021 – Jet Cleaning and Televising – Completed**

Total Jetting Cleaning and Televising – 154,555 LF

- Zone C (Non-Hot Spots) – 99,553 LF
- Zone C (Hot Spots) – 10,750 LF
- Zones A & B (Hot Spots) – 44,252 LF

##### **2022 – Jet Cleaning and Televising – Scheduled (Zone A)**

Total Length of Jet Cleaning – 149,362 LF

- Zone A Scheduled Jet Cleaning – 112,097 LF
- Zone A Hot Spots – 15,231 LF
- Zone B & C Hot Spots – 22,034 LF

Total Length of televising – 37,265 LF

- Root Cut (All Zones) – 9,870 LF
- Mineral Cleaning (All Zones) – 8,353 LF
- Accelerated Maintenance (All Zones) – 19,042 LF



## V. CATEGORY 1 REPAIRS – LOW PRIORITY

Although minor defects can exist in these pipes (hairline cracks, minor roots), mainlines in Category 1 were determined to have satisfactory structural condition and were deemed able to provide additional years of dependable service with maintenance consisting of jet cleaning every three (3) years and televising every six (6) years. Repairs on these mainlines are considered **low priority and annual televising and cleaning of mainlines is not required**. A list of these mainlines is shown below and is also provided on a District map, Map E.

*Table 1: Category 1 Repairs*

| Size (in) | Material | USMH       | DSMH       | Street Name              | Rehabilitation              | Zone | Total Length (ft) |
|-----------|----------|------------|------------|--------------------------|-----------------------------|------|-------------------|
| 24        | VCP      | A-32-1A    | A-32-1     | W 32nd Ave               | N/A                         | A    | 316               |
| 8         | VCP      | A-47A-11   | A-47A-10   | Paramount Pkwy           | Accelerated Maintenance     | B    | 290               |
| 8         | VCP      | AB-10-6-2A | AB-10-6-1A | Taft Ct                  | Root Cut                    | A    | 269               |
| 8         | VCP      | AB-11      | AB-10      | Simms St                 | N/A                         | A    | 288               |
| 8         | VCP      | AC-1       | A-30       | W 32nd Ave               | N/A                         | A    | 404               |
| 8         | VCP      | ACD-1      | ACA-3      | W 29th Pl                | Accelerated Maintenance     | A    | 329               |
| 8         | VCP      | ACD-3      | ACD-2      | W 29th Pl                | Accelerated Maintenance     | A    | 255               |
| 8         | PVC      | BO-6       | BO-5       | W 16th Dr                | N/A                         | C    | 225               |
| 8         | VCP      | B-1AA      | B-1        | Easement                 | N/A                         | A    | 420               |
| 21        | PVC      | B-64-1     | B-63-1     | W 16th Pl                | N/A                         | C    | 274               |
| 8         | PVC      | B-76-1     | B-75       | W Colfax Ave             | Accelerated Maintenance     | C    | 100               |
| 8         | PVC      | B-77       | B-76-1     | W Colfax Ave             | N/A                         | C    | 162               |
| 10        | VCP      | B-78A      | B-74B      | Normandy Rd/W Colfax Ave | N/A                         | C    | 107               |
| 8         | VCP      | B-78       | B-78A      | Normandy Rd              | N/A                         | C    | 8                 |
| 12        | VCP      | BF-6       | BF-5       | W 34th Pl                | Accelerated Maintenance     | A    | 222               |
| 8         | VCP      | BG-2       | BG-1       | Union St                 | N/A                         | A    | 90                |
| 6         | VCP      | BHN-6-1-4  | BHN-6-1-3  | Tabor Pl                 | Cut intruding tap at 245.0' | B    | 1                 |
| 8         | PVC      | BR-2-3     | BR-2-2     | Easement                 | N/A                         | C    | 469               |
| 8         | VCP      | BR-2-4     | BR-2-3     | Easement                 | N/A                         | C    | 130               |
| 8         | VCP      | C-3B-2-2   | C-3B-2-1   | W 28th Pl                | N/A                         | A    | 98                |
| 8         | VCP      | C-10-1     | C-10       | Robb St                  | N/A                         | A    | 187               |
| 8         | VCP      | C-18       | C-17       | Urban St                 | Root Cut                    | A    | 404               |
| 8         | VCP      | CG-6       | CG-5       | Easement                 | Root Cut                    | A    | 259               |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|-------------------------|-------------|--------------------------|
| 8                | VCP             | CGA-8       | CGA-7       | Simms St           | N/A                     | A           | 105                      |
| 8                | VCP             | CM-6        | CM-5        | W 25th Pl          | Accelerated Maintenance | A           | 207                      |
| 8                | VCP             | EA-3        | EA-2A       | Iris St            | N/A                     | B           | 67                       |
| 8                | PVC             | G-1A        | A-61        | W 25th Ave         | N/A                     | B           | 205                      |
| 21               | PVC             | P-1-1       | B-64-1      | Youngfield St      | N/A                     | C           | 89                       |
| 8                | VCP             | Z-6         | Z-5         | Alkire St          | N/A                     | A           | 408                      |
| 8                | VCP             | Z-21        | Z-20        | W 22nd Ave         | N/A                     | A           | 324                      |
| 8                | VCP             | ZC-13-3A    | ZC-13-2A    | W 20th Ave         | Accelerated Maintenance | A           | 47                       |
| 8                | VCP             | ZC-17       | ZC-16       | Coors Dr           | Root Cut                | A           | 134                      |
| 8                | VCP             | ZC-8-1      | ZC-8        | W 21st Ave         | Accelerated Maintenance | A           | 138                      |
| 8                | VCP             | ZE-5        | ZE-4        | W 21st Pl          | Accelerated Maintenance | A           | 47                       |
| 8                | VCP             | A-37C       | A-37B       | Oak St             | N/A                     | B           | 199                      |
| 8                | VCP             | A-37G       | A-37F       | Oak St             | N/A                     | B           | 225                      |
| 8                | VCP             | B-2A-3      | B-2A-2      | Easement           | N/A                     | A           | 55                       |
| 8                | VCP             | B-2A-4      | B-2A-3      | Easement           | N/A                     | A           | 150                      |
| 8                | VCP             | B-2A-6-2    | B-2A-6-1    | Taft Ct            | Root Cut                | A           | 420                      |
| 8                | VCP             | B-2A-A1     | B-2A-A      | Easement           | N/A                     | A           | 57                       |
| 8                | VCP             | B-11R-7A-4F | B-11R-7A-4E | W 27th Dr          | N/A                     | B           | 197                      |
| 8                | VCP             | C-3B-2-3    | C-3B-2-2    | W 28th Pl          | Root Cut                | A           | 219                      |
| 8                | VCP             | CM-4        | CM-3        | Routt St           | N/A                     | A           | 100                      |
| 8                | VCP             | Z-17        | Z-16        | W 22nd Pl          | Root Cut                | A           | 141                      |
| 8                | VCP             | Z-18        | Z-17        | W 22nd Pl          | Root Cut                | A           | 142                      |
| 8                | VCP             | ZD-4-3      | ZD-4-2      | W 24th Pl          | Root Cut                | A           | 75                       |
| 8                | VCP             | ZD-4-4      | ZD-4-3      | W 24th Pl          | Root Cut                | A           | 336                      |
| 8                | VCP             | ZE-7        | ZE-6        | W 21st Pl          | Accelerated Maintenance | A           | 111                      |
| 8                | VCP             | ZH-3        | ZH-2        | Creighton Dr       | Accelerated Maintenance | A           | 131                      |
| 8                | VCP             | A-23A-1C    | A-23A-1B    | Quail St           | N/A                     | B           | 414                      |
| 8                | VCP             | A-34A-3     | A-34A-2     | W 30th Pl          | Mineral Cleaning        | A           | 124                      |
| 8                | VCP             | A-37B-4-1   | A-37B-4     | W 31st Ave         | Accelerated Maintenance | B           | 136                      |
| 8                | VCP             | A-56A-3A    | A-56A-3     | Skyline Dr         | N/A                     | B           | 70                       |
| 8                | VCP             | AB-8        | AB-7A       | Robb Cir           | N/A                     | A           | 16                       |
| 8                | VCP             | AB-9        | AB-8        | Robb Cir           | Mineral Cleaning        | A           | 143                      |
| 8                | VCP             | AB-10-9-1B  | AB-10-9-1A  | W 27th Dr          | Mineral Cleaning        | A           | 99                       |
| 8                | VCP             | AB-10-9-2-1 | AB-10-9-2   | Tabor St           | Mineral Cleaning        | A           | 135                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|-------------------------|-------------|--------------------------|
| 8                | VCP             | AB-10-9-2-2 | AB-10-9-2-1 | Tabor St           | Accelerated Maintenance | A           | 129                      |
| 8                | VCP             | AB-11-2-1   | AB-11-2     | W 28th Ave         | Accelerated Maintenance | A           | 99                       |
| 8                | VCP             | AB-11-3     | AB-11-2     | W 28th Ave         | Mineral Cleaning        | A           | 112                      |
| 8                | VCP             | C-3B-4      | C-3B-3      | Oak St             | Accelerated Maintenance | A           | 319                      |
| 8                | VCP             | C-3B-5      | C-3B-4      | Easement           | Mineral Cleaning        | A           | 170                      |
| 8                | VCP             | D-10        | D-9         | Rangeview Dr       | Mineral Cleaning        | B           | 113                      |
| 8                | VCP             | Z-22        | Z-21        | Coors Dr           | Mineral Cleaning        | A           | 109                      |
| 8                | VCP             | ZC-2        | ZC-1        | Braun Dr           | Mineral Cleaning        | A           | 209                      |
| 8                | VCP             | ZC-13       | ZC-12       | Braun Dr           | Root Cut                | A           | 191                      |
| 8                | VCP             | ZJ-2-2      | ZJ-2-1      | W 23rd Ave         | Mineral Cleaning        | A           | 62                       |
| 8                | VCP             | AB-13-1     | AB-13       | Easement           | N/A                     | A           | 176                      |
| 8                | VCP             | BOD-2-9     | BOD-2-8     | Cole Blvd          | N/A                     | C           | 345                      |
| 8                | VCP             | B-6A        | B-6         | Union St           | N/A                     | C           | 24                       |
| 8                | PVC             | B-6         | B-5A        | Union St           | N/A                     | C           | 340                      |
| 24               | VCP             | B-7-1A      | B-7-1       | Vivian Dr          | N/A                     | C           | 100                      |
| 24               | VCP             | B-7-1       | BF-1A       | Vivian Dr          | N/A                     | C           | 183                      |
| 15               | VCP             | B-7         | BF-1A-A     | Vivian Dr          | N/A                     | C           | 176                      |
| 24               | VCP             | B-8-1       | B-7-1A      | Vivian Dr          | N/A                     | C           | 300                      |
| 8                | VCP             | B-8R-1      | B-8R        | Vivian Ct          | N/A                     | C           | 157                      |
| 15               | VCP             | B-8R        | B-7         | Vivian Dr          | Accelerated Maintenance | C           | 411                      |
| 15               | VCP             | B-9         | B-8R        | Vivian Dr          | Accelerated Maintenance | C           | 250                      |
| 15               | VCP             | B-10        | B-9         | Vivian Dr          | N/A                     | C           | 321                      |
| 24               | VCP             | B-11R-1A    | B-10-1      | Vivian Dr          | Mineral Cleaning        | C           | 205                      |
| 15               | VCP             | B-11R       | B-10        | Vivian Dr          | N/A                     | C           | 182                      |
| 18               | PVC             | B-12-1      | B-11R-1A    | Vivian Dr          | N/A                     | C           | 58                       |
| 15               | VCP             | B-12        | B-11R       | Vivian Dr          | Root Cut                | C           | 55                       |
| 8                | VCP             | B-13-1A-1   | B-13-1A     | Wright Ct          | N/A                     | C           | 243                      |
| 8                | VCP             | B-13-1A     | B-13        | W 32nd Ave         | N/A                     | C           | 299                      |
| 8                | VCP             | B-13-2A     | B-13-1A     | W 32nd Ave         | N/A                     | C           | 268                      |
| 12               | VCP             | B-13        | B-12        | W 32nd Ave         | N/A                     | C           | 265                      |
| 18               | PVC             | B-14-1      | B-13-1      | Ward Ct            | N/A                     | C           | 444                      |
| 12               | VCP             | B-14        | B-13        | Ward Ct            | N/A                     | C           | 406                      |
| 18               | PVC             | B-15-1      | B-14-1      | Ward Ct            | N/A                     | C           | 156                      |
| 8                | VCP             | B-15X-1     | B-15        | Ward Ct            | N/A                     | C           | 351                      |
| 8                | VCP             | B-15-2      | B-15X-1     | Ward Ct            | N/A                     | C           | 344                      |





| Size (in) | Material | USMH      | DSMH     | Street Name       | Rehabilitation             | Zone | Total Length (ft) |
|-----------|----------|-----------|----------|-------------------|----------------------------|------|-------------------|
| 8         | PVC      | B-15-3A-1 | B-15-3A  | Wright Ct         | N/A                        | C    | 190               |
| 8         | VCP      | B-15-3A   | B-15-3   | W 29th Ave        | N/A                        | C    | 192               |
| 8         | VCP      | B-15-3    | B-15-2   | W 29th Ave        | N/A                        | C    | 301               |
| 8         | VCP      | B-15-4    | B-15-3A  | W 29th Ave        | N/A                        | C    | 108               |
| 8         | VCP      | B-15A-2   | B-15A-1  | Wright St         | N/A                        | C    | 227               |
| 12        | VCP      | B-15A     | B-15     | W 31st Ave        | N/A                        | C    | 263               |
| 8         | VCP      | B-15B-1   | B-15A    | Wright St         | N/A                        | C    | 199               |
| 8         | VCP      | B-15B-2   | B-15B-1  | Wright St         | N/A                        | C    | 205               |
| 8         | VCP      | B-15B-3   | B-15B-2  | W 29th Pl         | N/A                        | C    | 227               |
| 12        | VCP      | B-15      | B-14     | Ward Ct           | Cut intruding tap at 93.2' | C    | 1                 |
| 18        | VCP      | B-16-1    | B-15-1   | W 31st Ave        | N/A                        | C    | 325               |
| 8         | VCP      | B-16A-1   | B-16A    | Wright Ct         | N/A                        | C    | 197               |
| 8         | VCP      | B-16A-2   | B-16A-1  | Wright Ct         | Accelerated Maintenance    | C    | 322               |
| 8         | VCP      | B-16A     | B-16     | W 31st Ave        | Mineral Cleaning           | C    | 128               |
| 12        | VCP      | B-16      | B-15A    | W 31st Ave        | Accelerated Maintenance    | C    | 140               |
| 12        | VCP      | B-17      | B-16     | W 31st Ave        | N/A                        | C    | 201               |
| 18        | PVC      | B-18-1A   | B-18-1   | W 31st Ave        | N/A                        | C    | 43                |
| 18        | VCP      | B-18-1    | B-17-1   | W 31st Ave        | Accelerated Maintenance    | C    | 97                |
| 8         | VCP      | B-18A     | B-18     | W 31st Ave        | N/A                        | C    | 248               |
| 8         | PVC      | B-18-1N   | B-18     | Xenon St          | Root Cut                   | C    | 296               |
| 8         | VCP      | B-18-2    | B-18A    | W 31st Ave        | N/A                        | C    | 130               |
| 8         | PVC      | B-18-3    | B-18-2   | W 31st Ave        | N/A                        | C    | 122               |
| 8         | VCP      | B-18-3N   | B-18-2N  | Xenon St          | Accelerated Maintenance    | C    | 93                |
| 8         | PVC      | B-18-4-1  | B-18-4   | Youngfield St     | N/A                        | C    | 43                |
| 8         | VCP      | B-18-4-2  | B-18-4-1 | Youngfield St     | Accelerated Maintenance    | C    | 417               |
| 8         | PVC      | B-18-4-3  | B-18-4-2 | Youngfield St     | Accelerated Maintenance    | C    | 149               |
| 8         | VCP      | B-18-4    | B-18-3   | Youngfield St     | Accelerated Maintenance    | C    | 283               |
| 8         | VCP      | B-18-4N   | B-18-3N  | W 32nd Ave        | N/A                        | C    | 370               |
| 12        | VCP      | B-18      | B-17     | W 31st Ave        | N/A                        | C    | 200               |
| 18        | PVC      | B-19-1    | B-18-1A  | Xenon St          | N/A                        | C    | 386               |
| 12        | VCP      | B-20      | B-19     | Xenon St          | N/A                        | C    | 304               |
| 18        | VCP      | B-20      | B-20-1   | Xenon St          | N/A                        | C    | 22                |
| 8         | PVC      | B-21-1A   | B-21     | Easement          | N/A                        | C    | 49                |
| 24        | PVC      | B-21-1    | B-20-1   | Xenon St easement | N/A                        | C    | 417               |
| 8         | PVC      | B-21-2A   | B-21-1A  | Easement          | N/A                        | C    | 98                |
| 8         | PVC      | B-21-3A   | B-21-2A  | Easement          | N/A                        | C    | 177               |



| Size (in) | Material | USMH         | DSMH       | Street Name            | Rehabilitation          | Zone | Total Length (ft) |
|-----------|----------|--------------|------------|------------------------|-------------------------|------|-------------------|
| 12        | VCP      | B-21         | B-20       | Xenon St easement      | N/A                     | C    | 396               |
| 24        | PVC      | B-22-1       | B-21-1     | Easement               | Accelerated Maintenance | C    | 408               |
| 24        | PVC      | B-23-1       | B-22-1     | Easement               | Accelerated Maintenance | C    | 323               |
| 12        | VCP      | B-23         | B-22       | Easement               | N/A                     | C    | 327               |
| 24        | PVC      | B-24-1       | B-23-1     | Easement               | N/A                     | C    | 217               |
| 8         | VCP      | B-24-1       | B-24       | W 27th Ave             | N/A                     | C    | 198               |
| 8         | VCP      | B-24-2       | B-24-1     | Youngfield St          | N/A                     | C    | 273               |
| 15        | PVC      | B-24         | B-23       | Easement               | N/A                     | C    | 188               |
| 24        | PVC      | B-25-1       | B-24-1     | Willow Ln easement     | N/A                     | C    | 336               |
| 12        | PVC      | B-25         | B-24       | Willow Ln easement     | N/A                     | C    | 389               |
| 8         | VCP      | B-26-1       | B-26       | 26th Ave easement      | N/A                     | C    | 78                |
| 24        | PVC      | B-26-1-X     | B-25-1     | Willow Ln easement     | N/A                     | C    | 154               |
| 8         | VCP      | B-26-2-1-A   | B-26-2-1   | Youngfield St          | Accelerated Maintenance | C    | 318               |
| 8         | VCP      | B-26-2-1     | B-26-2     | 26th Ave               | N/A                     | C    | 174               |
| 8         | VCP      | B-26-2-1-C   | B-26-2-1-B | W 24th Pl              | Root Cut                | C    | 264               |
| 8         | VCP      | B-26-2-2     | B-26-2-1   | Youngfield St          | N/A                     | C    | 84                |
| 8         | VCP      | B-26-2-3     | B-26-2-2   | Youngfield St          | N/A                     | C    | 133               |
| 8         | VCP      | B-26-2-6     | B-26-2-5   | Beech Ct               | N/A                     | C    | 185               |
| 8         | VCP      | B-26-2-7     | B-26-2-6   | Beech Ct               | N/A                     | C    | 405               |
| 8         | VCP      | B-26-2-8-1   | B-26-2-8   | W 23rd Cir             | N/A                     | C    | 235               |
| 8         | VCP      | B-26-2-8-2   | B-26-2-8-1 | W 23rd Cir             | N/A                     | C    | 82                |
| 8         | VCP      | B-26-2-8-3-1 | B-26-2-8-3 | W 23rd Cir             | Root Cut                | C    | 125               |
| 8         | VCP      | B-26-2-8-3   | B-26-2-8-2 | W 23rd Cir             | N/A                     | C    | 164               |
| 8         | VCP      | B-26-2-8-4   | B-26-2-8-3 | W 23rd Cir             | Root Cut                | C    | 103               |
| 8         | VCP      | B-26-2-8-5   | B-26-2-8-4 | W 23rd Cir             | Root Cut                | C    | 180               |
| 8         | VCP      | B-26-2-8     | B-26-2-7   | Beech Ct               | Accelerated Maintenance | C    | 269               |
| 8         | VCP      | B-26-2-9     | B-26-2-8   | Beech Ct               | N/A                     | C    | 354               |
| 8         | VCP      | B-26-2-10    | B-26-2-9   | Beech Ct               | Accelerated Maintenance | C    | 241               |
| 8         | VCP      | B-26-2       | B-26-1     | 26th Ave               | Accelerated Maintenance | C    | 110               |
| 8         | VCP      | B-26-3       | B-26-2     | Youngfield St easement | N/A                     | C    | 123               |
| 8         | VCP      | B-26-4       | B-26-3     | Youngfield St easement | N/A                     | C    | 405               |
| 8         | VCP      | B-26-5       | B-26-4     | Youngfield St easement | N/A                     | C    | 53                |
| 12        | PVC      | B-26         | B-25       | Willow Ln easement     | N/A                     | C    | 159               |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|-------------------------|-------------|--------------------------|
| 24               | PVC             | B-27-1      | B-26-1-X    | Willow Ln easement | N/A                     | C           | 116                      |
| 12               | VCP             | B-27        | B-26        | Willow Ln easement | Mineral Cleaning        | C           | 109                      |
| 24               | PVC             | B-28-1      | B-27-1      | Willow Ln easement | N/A                     | C           | 332                      |
| 24               | PVC             | B-29-1      | B-28-1      | Willow Ln easement | N/A                     | C           | 130                      |
| 24               | PVC             | B-30-1      | B-29-1      | Willow Ln easement | N/A                     | C           | 180                      |
| 24               | PVC             | B-31-1      | B-30-1      | Willow Ln easement | N/A                     | C           | 126                      |
| 24               | PVC             | B-32-1      | B-31-1      | Willow Ln easement | N/A                     | C           | 118                      |
| 12               | VCP             | B-32        | B-31        | Willow Ln easement | Mineral Cleaning        | C           | 242                      |
| 24               | PVC             | B-33-1      | B-32-1      | Willow Ln easement | N/A                     | C           | 250                      |
| 24               | PVC             | B-34-1      | B-33-1      | Willow Ln easement | N/A                     | C           | 318                      |
| 24               | PVC             | B-35-1      | B-34-1      | Willow Ln easement | N/A                     | C           | 162                      |
| 24               | PVC             | B-36-1      | B-35-1      | Willow Ln easement | N/A                     | C           | 117                      |
| 24               | PVC             | B-37-1      | B-36-1      | Willow Ln easement | N/A                     | C           | 213                      |
| 24               | PVC             | B-38-1      | B-37-1      | Willow Ln easement | N/A                     | C           | 155                      |
| 12               | VCP             | B-38        | B-37        | Willow Ln easement | Mineral Cleaning        | C           | 104                      |
| 24               | PVC             | B-39-1      | B-38-1      | Willow Ln easement | N/A                     | C           | 60                       |
| 12               | VCP             | B-39        | B-38        | Willow Ln easement | Accelerated Maintenance | C           | 100                      |
| 24               | PVC             | B-40-1      | B-39-1      | Willow Ln easement | N/A                     | C           | 79                       |
| 12               | VCP             | B-40        | B-39        | Willow Ln easement | Accelerated Maintenance | C           | 109                      |
| 12               | VCP             | B-41        | B-40        | Willow Ln easement | Mineral Cleaning        | C           | 134                      |
| 12               | CI              | B-42-1L     | B-40-1L     | Willow Ln easement | N/A                     | C           | 40                       |
| 12               | VCP             | B-42-1R     | B-40-1R     | Willow Ln easement | Accelerated Maintenance | C           | 40                       |
| 12               | VCP             | B-42        | B-41        | Willow Ln          | Accelerated Maintenance | C           | 111                      |
| 24               | PVC             | B-43-1      | B-42-1      | Willow Ln          | N/A                     | C           | 188                      |
| 12               | VCP             | B-43        | B-42        | Willow Ln          | N/A                     | C           | 135                      |
| 24               | PVC             | B-44-1      | B-43-1      | Willow Ln          | N/A                     | C           | 251                      |
| 24               | PVC             | B-45-1      | B-44-1      | Willow Ln          | N/A                     | C           | 179                      |
| 24               | PVC             | B-46-1      | B-45-1      | Willow Ln          | N/A                     | C           | 83                       |
| 21               | PVC             | B-47        | B-46-1      | Willow Ln          | N/A                     | C           | 192                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>                  | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|-------------------------------------|-------------------------|-------------|--------------------------|
| 21               | PVC             | B-49        | B-47        | Willow Ln                           | N/A                     | C           | 166                      |
| 21               | PVC             | B-50        | B-49        | Willow Ln                           | N/A                     | C           | 81                       |
| 21               | PVC             | B-51        | B-50        | Willow Ln                           | N/A                     | C           | 294                      |
| 21               | PVC             | B-52        | B-51        | Willow Ln                           | N/A                     | C           | 282                      |
| 21               | PVC             | B-53        | B-52        | Willow Ln                           | N/A                     | C           | 104                      |
| 21               | PVC             | B-54        | B-53        | Willow Ln                           | N/A                     | C           | 64                       |
| 21               | PVC             | B-55        | B-54        | Willow Ln                           | N/A                     | C           | 223                      |
| 21               | PVC             | B-56-1-D    | B-55        | Willow Ln                           | N/A                     | C           | 204                      |
| 21               | PVC             | B-58        | B-56-1-D    | Youngfield St/Winfield Cir easement | N/A                     | C           | 151                      |
| 21               | PVC             | B-58A       | B-58        | Youngfield St/Winfield Cir easement | N/A                     | C           | 121                      |
| 21               | PVC             | B-59        | B-58A       | Winfield Cir easement               | N/A                     | C           | 75                       |
| 21               | PVC             | B-60-1      | B-59        | Winfield Cir                        | N/A                     | C           | 276                      |
| 21               | PVC             | B-61-1      | B-60-1      | Winfield Cir                        | N/A                     | C           | 225                      |
| 21               | PVC             | B-62-1A     | B-61-1      | Winfield Cir                        | N/A                     | C           | 132                      |
| -1               | VCP             | B-62-B      | B-67        | Youngfield St/W 16th Pl             | N/A                     | C           | 135                      |
| 21               | PVC             | B-63-1      | B-62-1A     | Winfield Dr                         | N/A                     | C           | 176                      |
| 12               | VCP             | B-66        | B-65        | W 16th Pl                           | N/A                     | C           | 147                      |
| 8                | VCP             | B-67-1-1    | B-67-1A     | Youngfield St                       | Root Cut                | C           | 352                      |
| 8                | VCP             | B-67-1-3    | B-67-1-2    | Youngfield St                       | N/A                     | C           | 172                      |
| 8                | VCP             | B-67-1A     | B-67-1      | Youngfield St                       | N/A                     | C           | 86                       |
| 8                | PVC             | B-67-1      | B-64-1      | Youngfield St                       | N/A                     | C           | 280                      |
| 8                | PVC             | B-67-2      | B-67-1A     | W 15th Pl                           | N/A                     | C           | 53                       |
| 12               | VCP             | B-67        | B-66        | W 16th Pl                           | N/A                     | C           | 145                      |
| 8                | VCP             | B-70        | P-3A        | W 15th Dr easement                  | N/A                     | C           | 75                       |
| 10               | VCP             | B-74A       | P-11A       | W Colfax Ave                        | Mineral Cleaning        | C           | 249                      |
| 8                | PVC             | B-75        | P-11A       | Orchard Dr                          | N/A                     | C           | 101                      |
| 8                | VCP             | B-76-2      | B-76-1      | Meadowsweet Rd                      | N/A                     | C           | 322                      |
| 12               | PVC             | B-78        | B-77        | W Colfax Ave                        | N/A                     | C           | 168                      |
| 8                | VCP             | B-79A       | B-78        | W Colfax Ave                        | N/A                     | C           | 322                      |
| 15               | VCP             | B-79        | B-78A       | W Colfax Ave                        | Accelerated Maintenance | C           | 318                      |
| 15               | VCP             | B-80A       | B-79        | W Colfax Ave                        | Accelerated Maintenance | C           | 311                      |
| 8                | VCP             | B-80        | B-79A       | W Colfax Ave                        | Accelerated Maintenance | C           | 321                      |
| 8                | VCP             | B-81        | B-81A       | W 14th Pl                           | N/A                     | C           | 7                        |
| 8                | PVC             | B-82-1-1    | B-82-1      | Youngfield St                       | N/A                     | C           | 111                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>       | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------------|-------------------------|-------------|--------------------------|
| 8                | PVC             | B-82-1-2A   | B-82-1-2    | W Colfax Ave             | N/A                     | C           | 118                      |
| 8                | PVC             | B-82-1-2    | B-82-1-1    | Youngfield St            | N/A                     | C           | 196                      |
| 8                | PVC             | B-82-1-3    | B-82-1-2A   | W Colfax Ave             | N/A                     | C           | 280                      |
| 8                | PVC             | B-82-1-4    | B-82-1-3    | W Colfax Ave             | N/A                     | C           | 373                      |
| 8                | PVC             | B-82-1-5    | B-82-1-4    | W Colfax Ave             | N/A                     | C           | 236                      |
| 8                | PVC             | B-82-1A     | B-82-1      | Youngfield St            | N/A                     | C           | 230                      |
| 8                | PVC             | B-82-1      | B-82        | W 14th Pl                | N/A                     | C           | 330                      |
| 8                | PVC             | B-82-2      | B-82-1A     | Youngfield St            | N/A                     | C           | 225                      |
| 8                | VCP             | B-82        | B-81        | W 14th Pl                | Accelerated Maintenance | C           | 337                      |
| 15               | VCP             | B-83A       | B-82A       | Yank St                  | Accelerated Maintenance | C           | 419                      |
| 15               | VCP             | B-84        | B-83A       | Yank St                  | N/A                     | C           | 224                      |
| 8                | VCP             | B-87        | B-84        | Wide Acres Rd            | Accelerated Maintenance | C           | 149                      |
| 8                | VCP             | B-88        | B-87        | Wide Acres Rd            | Accelerated Maintenance | C           | 371                      |
| 8                | VCP             | B-90        | B-89        | Zinnia St and W 11th Ave | Accelerated Maintenance | C           | 193                      |
| 8                | VCP             | B-91        | B-90        | Zinnia St                | Accelerated Maintenance | C           | 117                      |
| 8                | VCP             | B-92        | B-91        | Zinnia St                | Accelerated Maintenance | C           | 125                      |
| 8                | VCP             | B-93        | B-92        | Zinnia St                | N/A                     | C           | 99                       |
| 8                | VCP             | B-94        | B-93        | Zinnia St                | N/A                     | C           | 248                      |
| 8                | VCP             | B-96        | B-95        | Alkire St                | Accelerated Maintenance | C           | 231                      |
| 8                | VCP             | B-97        | B-96        | Alkire St                | N/A                     | C           | 137                      |
| 8                | VCP             | BE-1-1      | BE-1        | W 32nd Dr                | N/A                     | C           | 239                      |
| 8                | VCP             | BE-1-2      | BE-1-1      | W 32nd Dr                | N/A                     | C           | 366                      |
| 12               | VCP             | BF-1A-A     | B-5A        | W 34th Pl                | N/A                     | C           | 305                      |
| 24               | VCP             | BF-1A       | BF-1        | W 34th Pl                | Accelerated Maintenance | A           | 275                      |
| 24               | VCP             | BF-1        | B-5         | Easement                 | Accelerated Maintenance | A           | 52                       |
| 18               | PVC             | BF-13A      | BF-13       | Easement                 | N/A                     | A           | 16                       |
| 18               | PVC             | BF-14-1A    | BF-13A      | Easement                 | N/A                     | A           | 396                      |
| 18               | PVC             | BF-14-1     | BF-14-1A    | Easement                 | N/A                     | A           | 3                        |
| 8                | VCP             | BJ-1        | B-46        | W 20th Ave               | Accelerated Maintenance | C           | 349                      |
| 8                | VCP             | BJ-2        | BJ-1        | W 20th Ave               | Accelerated Maintenance | C           | 391                      |
| 8                | VCP             | BK-1        | B-49        | W 19th Pl                | Accelerated Maintenance | C           | 243                      |
| 8                | VCP             | BK-2        | BK-1        | W 19th Pl                | N/A                     | C           | 368                      |
| 8                | VCP             | BK-3        | BK-2        | W 19th Pl                | N/A                     | C           | 121                      |
| 8                | VCP             | BK-4        | BK-3        | W 19th Pl                | N/A                     | C           | 163                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>               | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|----------------------------------|-------------------------|-------------|--------------------------|
| 8                | VCP             | BK-5        | BK-4        | W 19th Pl                        | N/A                     | C           | 385                      |
| 8                | VCP             | BK-6        | BK-5        | W 19th Pl                        | Root Cut                | C           | 140                      |
| 8                | VCP             | BKA-1       | BK-4        | Applewood Dr                     | N/A                     | C           | 373                      |
| 8                | VCP             | BL-1        | B-52        | Ward Ct                          | N/A                     | C           | 297                      |
| 8                | VCP             | BM-2        | BM-1        | Applewood Dr                     | N/A                     | C           | 127                      |
| 8                | VCP             | BN-2        | BN-1        | Willow Ln                        | N/A                     | C           | 329                      |
| 24               | VCP             | B-O-1       | A-27A-1     | Easement                         | Accelerated Maintenance | A           | 335                      |
| 8                | VCP             | BO-1        | B-58A       | Youngfield St easement           | N/A                     | C           | 100                      |
| 8                | VCP             | BO-2A       | BO-2        | W 16th Dr/Youngfield St easement | Accelerated Maintenance | C           | 197                      |
| 8                | VCP             | BO-2        | BO-1        | Youngfield St easement           | Accelerated Maintenance | C           | 190                      |
| 8                | PVC             | BO-5        | BO-4        | W 16th Dr                        | N/A                     | C           | 157                      |
| 8                | VCP             | BO-7        | BO-6        | W 16th Dr                        | N/A                     | C           | 125                      |
| 8                | VCP             | BO-9        | BO-8        | W 16th Dr                        | N/A                     | C           | 179                      |
| 8                | VCP             | BO-10       | BO-9        | W 16th Dr                        | N/A                     | C           | 228                      |
| 8                | VCP             | BO-12       | BO-11       | Alkire St                        | N/A                     | C           | 339                      |
| 8                | VCP             | BOA-1-1     | BOA-1       | Zang St                          | N/A                     | C           | 217                      |
| 8                | VCP             | BOA-1       | BO-4        | Youngfield Ct                    | N/A                     | C           | 175                      |
| 8                | VCP             | BOA-3-1     | BOA-3       | Yank Ct                          | N/A                     | C           | 161                      |
| 8                | VCP             | BOA-3-2     | BOA-3-1     | Yank Ct                          | Accelerated Maintenance | C           | 410                      |
| 8                | VCP             | BOA-3       | BOA-2       | W 19th Ave                       | N/A                     | C           | 241                      |
| 8                | VCP             | BOA-4-3     | BOA-4-2     | Zang St                          | N/A                     | C           | 196                      |
| 8                | VCP             | BOA-4       | BOA-3       | Willow Ln                        | Accelerated Maintenance | C           | 278                      |
| 8                | VCP             | BOA-5-1     | BOA-5       | Zinnia St                        | Accelerated Maintenance | C           | 296                      |
| 8                | VCP             | BY-2        | BY-1        | Zang St                          | N/A                     | C           | 377                      |
| 8                | VCP             | BY-3        | BY-2        | Zang St                          | N/A                     | C           | 298                      |
| 8                | VCP             | BY-4        | BY-3        | Zang St                          | N/A                     | C           | 199                      |
| 6                | VCP             | BY-5        | BY-4        | Zang St                          | N/A                     | C           | 164                      |
| 8                | VCP             | BOA-5-3     | BOA-5-2     | Zinnia St                        | N/A                     | C           | 218                      |
| 8                | VCP             | BOA-5       | BOA-4       | Willow Ln                        | N/A                     | C           | 278                      |
| 12               | VCP             | BOA-6-1     | BOA-6       | Zinnia Ct                        | N/A                     | C           | 298                      |
| 8                | VCP             | BOA-6-3-1   | BOA-6-3     | Alkire St                        | N/A                     | C           | 204                      |
| 8                | VCP             | BOA-6-3-3   | BOA-6-3-2   | Alkire St                        | Root Cut                | C           | 271                      |
| 8                | VCP             | BOA-6-3     | BOA-6-2     | Zinnia Ct                        | Root Cut                | C           | 92                       |
| 8                | VCP             | BOA-6-4     | BOA-6-3     | W Alkire St                      | N/A                     | C           | 273                      |
| 8                | VCP             | BOA-6-5     | BOA-6-4     | W Alkire St                      | N/A                     | C           | 174                      |
| 8                | VCP             | BOA-6       | BOA-5       | Willow Ln                        | N/A                     | C           | 279                      |
| 8                | VCP             | BOA-7       | BOA-6       | Willow Ln                        | N/A                     | C           | 350                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>    | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|-----------------------|-------------------------|-------------|--------------------------|
| 8                | VCP             | BOA-8       | BOA-7       | Willow Way            | N/A                     | C           | 325                      |
| 8                | VCP             | BOA-9       | BOA-8       | Willow Way            | N/A                     | C           | 143                      |
| 8                | VCP             | BOB-1-1     | BOB-1       | Zinnia St             | N/A                     | C           | 161                      |
| 8                | VCP             | BOC-1       | BO-11       | Alkire St             | N/A                     | C           | 176                      |
| 8                | VCP             | BOD-2-1     | BOD-2       | Alkire Ct             | N/A                     | C           | 290                      |
| 8                | VCP             | BOD-2-2A-1  | BOD-2-2A    | Alkire Ct             | N/A                     | C           | 86                       |
| 8                | VCP             | BOD-2-2A    | BOD-2-2     | Alkire Ct             | N/A                     | C           | 119                      |
| 8                | VCP             | BOD-2-2C    | BOD-2-2B    | Winfield Pl           | N/A                     | C           | 199                      |
| 8                | VCP             | BOD-2-3     | BOD-2-2A-1  | Alkire Ct             | N/A                     | C           | 69                       |
| 8                | VCP             | BOD-2-4     | BOD-2-3     | Alkire Ct             | N/A                     | C           | 202                      |
| 8                | VCP             | BOD-2-5     | BOD-2-3     | Cole Blvd easement    | N/A                     | C           | 228                      |
| 8                | VCP             | BOD-2-6     | BOD-2-5     | Cole Blvd easement    | N/A                     | C           | 237                      |
| 8                | VCP             | BOD-2-7     | BOD-2-6     | Cole Blvd easement    | N/A                     | C           | 312                      |
| 8                | VCP             | BOD-2-8     | BOD-2-7     | Cole Blvd             | N/A                     | C           | 142                      |
| 8                | VCP             | BOD-2-10    | BOD-2-9     | Cole Blvd             | N/A                     | C           | 357                      |
| 12               | VCP             | BOD-2       | BOD-1       | Willow Ln             | N/A                     | C           | 189                      |
| 8                | VCP             | BOD-4-2     | BOD-4-1     | N Arbutus St          | N/A                     | C           | 99                       |
| 8                | PVC             | BOD-4       | BOD-3       | Willow Ln             | N/A                     | C           | 131                      |
| 8                | VCP             | BOD-5-1     | BOD-5       | Arbutus Ct            | N/A                     | C           | 224                      |
| 8                | VCP             | BOD-5       | BOD-4       | Willow Ln             | N/A                     | C           | 159                      |
| 8                | VCP             | BOD-6       | BOD-5       | Willow Ln             | N/A                     | C           | 114                      |
| 8                | PVC             | BR-1        | B-75        | W Colfax Ave          | N/A                     | C           | 298                      |
| 8                | PVC             | BR-2-1      | BR-2        | Easement              | N/A                     | C           | 19                       |
| 8                | PVC             | BR-2-2      | BR-2-1      | Easement              | N/A                     | C           | 316                      |
| 8                | PVC             | BR-2        | BR-1        | W Colfax Ave          | N/A                     | C           | 227                      |
| 8                | VCP             | BR-3        | BR-2        | Orchard Rd            | N/A                     | C           | 383                      |
| 8                | VCP             | BR-5-1      | BR-5        | Wide Acres Rd         | N/A                     | C           | 31                       |
| 8                | VCP             | BR-5-2      | BR-5-1      | Wide Acres Rd         | N/A                     | C           | 297                      |
| 8                | VCP             | BR-5        | BR-4        | Orchard Rd            | N/A                     | C           | 352                      |
| 8                | VCP             | BR-6        | BR-5        | Wide Acres Rd         | N/A                     | C           | 315                      |
| 8                | VCP             | BR-7        | BR-6        | Wide Acres Rd         | N/A                     | C           | 335                      |
| 8                | VCP             | BRA-1       | P-11A-2     | W Colfax Ave easement | Mineral Cleaning        | C           | 126                      |
| 8                | VCP             | BS-1        | B-77        | Easement              | N/A                     | C           | 254                      |
| 8                | PVC             | BS-2A-1     | B-76-2      | Meadowsweet Rd        | N/A                     | C           | 362                      |
| 8                | VCP             | BS-2        | BS-1        | Easement              | N/A                     | C           | 403                      |
| 8                | VCP             | BT-1        | B-78        | Normandy Rd           | Accelerated Maintenance | C           | 397                      |
| 8                | VCP             | BT-2        | BT-1        | Normandy Rd           | N/A                     | C           | 290                      |





| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>   | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|----------------------|-------------------------|-------------|--------------------------|
| 8                | VCP             | BT-3        | BT-2        | Normandy Rd          | N/A                     | C           | 396                      |
| 8                | VCP             | BT-5        | BT-4        | Wide Acres Rd        | Accelerated Maintenance | C           | 297                      |
| 8                | VCP             | BU-1        | B-79A       | W Kingsbury Ct       | Root Cut                | C           | 377                      |
| 8                | VCP             | BU-2        | BU-1        | W Kingsbury Ct       | N/A                     | C           | 127                      |
| 8                | VCP             | BV-1        | B-81        | Overhill Rd          | N/A                     | C           | 328                      |
| 8                | VCP             | BV-2        | BV-1        | Overhill Rd          | N/A                     | C           | 134                      |
| 8                | VCP             | BV-3        | BV-2        | Overhill Rd          | N/A                     | C           | 209                      |
| 8                | VCP             | BV-4        | BV-3        | Overhill Rd          | N/A                     | C           | 128                      |
| 8                | VCP             | BW-1A-1     | BW-1A       | W 11th Pl easement   | N/A                     | C           | 165                      |
| 8                | VCP             | BW-1A-2     | BW-1A-1     | W 11th Pl easement   | Root Cut                | C           | 202                      |
| 8                | VCP             | BW-1A-3     | BW-1A-2     | Xenophon St easement | N/A                     | C           | 166                      |
| 8                | VCP             | BW-1A-5     | BW-1A-4     | Xenophon St          | N/A                     | C           | 300                      |
| 8                | VCP             | BW-1A-6     | BW-1A-5     | Xenophon St          | Mineral Cleaning        | C           | 264                      |
| 8                | VCP             | BW-1        | B-86        | Wide Acres Rd        | Accelerated Maintenance | C           | 314                      |
| 8                | VCP             | BW-2        | BW-1A       | Youngfield St        | N/A                     | C           | 26                       |
| 8                | VCP             | BW-3        | BW-2        | Youngfield St        | N/A                     | C           | 399                      |
| 8                | VCP             | BW-4        | BW-3        | Youngfield St        | N/A                     | C           | 349                      |
| 8                | VCP             | BW-5        | BW-4        | Youngfield St        | N/A                     | C           | 274                      |
| 15               | VCP             | BX-1-1      | B-86A       | Yank St              | N/A                     | C           | 421                      |
| 8                | VCP             | BX-1        | B-86        | Yank St              | N/A                     | C           | 399                      |
| 15               | VCP             | BX-2-1      | BX-1-1      | Yank St              | N/A                     | C           | 374                      |
| 8                | VCP             | BX-2        | BX-1        | Yank St              | N/A                     | C           | 399                      |
| 15               | VCP             | BX-3-1      | BX-2-1      | Yank St              | N/A                     | C           | 371                      |
| 15               | VCP             | BX-4        | BX-3-1      | Yank St              | Accelerated Maintenance | C           | 186                      |
| 8                | VCP             | BX-5        | BX-4        | Yank St              | Accelerated Maintenance | C           | 163                      |
| 8                | VCP             | BX-6        | BX-5        | W 10th Ave           | Accelerated Maintenance | C           | 14                       |
| 18               | VCP             | P-10-1      | P-9-1A      | Arbutus St           | N/A                     | C           | 119                      |
| 18               | VCP             | P-2-1       | P-1-1       | W 15th Dr            | N/A                     | C           | 111                      |
| 18               | VCP             | P-3-1       | P-2-1       | W 15th Dr            | N/A                     | C           | 377                      |
| 18               | VCP             | P-7-1       | P-6-1       | W 15th Dr            | Accelerated Maintenance | C           | 338                      |
| 15               | VCP             | P-8-1       | P-7-1       | W 15th Dr            | Accelerated Maintenance | C           | 406                      |
| 18               | VCP             | P-9-1       | P-8-1       | Arbutus St           | Accelerated Maintenance | C           | 72                       |
| 18               | VCP             | P-9-1A      | P-9-1       | Arbutus St           | Accelerated Maintenance | C           | 15                       |





| Size (in) | Material | USMH    | DSMH    | Street Name                    | Rehabilitation             | Zone | Total Length (ft) |
|-----------|----------|---------|---------|--------------------------------|----------------------------|------|-------------------|
| 8         | VCP      | DB-3    | DB-2    | Morningside Dr                 | N/A                        | B    | 299               |
| 8         | VCP      | J-1     | B-38    | Rosewood Dr<br>easement        | Accelerated<br>Maintenance | C    | 168               |
| 8         | VCP      | J-3     | J-2     | Rosewood Dr                    | N/A                        | C    | 227               |
| 8         | VCP      | J-4     | J-3     | Rosewood Dr                    | N/A                        | C    | 141               |
| 8         | VCP      | J-5     | J-4     | Rosewood Dr                    | N/A                        | C    | 78                |
| 8         | VCP      | J-6     | J-5     | Rosewood Dr                    | Accelerated<br>Maintenance | C    | 261               |
| 8         | PVC      | J-7-1   | J-7     | Rosewood Dr                    | N/A                        | C    | 46                |
| 8         | PVC      | J-7-2   | J-7-1   | W 20th Ave                     | N/A                        | C    | 123               |
| 8         | PVC      | J-7-3   | J-7-2   | Xenon Ct                       | N/A                        | C    | 176               |
| 8         | VCP      | J-7     | J-6     | Rosewood Dr                    | Accelerated<br>Maintenance | C    | 69                |
| 8         | VCP      | J-8     | J-7     | W 20th Ave<br>easement         | Mineral<br>Cleaning        | C    | 138               |
| 8         | VCP      | J-9     | J-8A    | W 20th Ave                     | N/A                        | C    | 3                 |
| 8         | PVC      | J-10A-1 | J-10A   | Youngfield St                  | N/A                        | C    | 117               |
| 8         | PVC      | J-10A-2 | J-10A-1 | Youngfield St                  | N/A                        | C    | 179               |
| 8         | VCP      | J-10A   | J-9     | W 20th Ave                     | N/A                        | C    | 111               |
| 8         | VCP      | J-10    | J-10A   | W 20th<br>Ave/Youngfield<br>St | N/A                        | C    | 88                |
| 8         | VCP      | J-11    | J-10    | W 20th Ave                     | Accelerated<br>Maintenance | C    | 207               |
| 8         | VCP      | J-12    | J-11    | Easement                       | N/A                        | C    | 163               |
| 8         | VCP      | J-13    | J-12    | Easement                       | N/A                        | C    | 249               |
| 8         | VCP      | J-14    | J-13    | Easement                       | N/A                        | C    | 202               |
| 8         | VCP      | J-15    | J-14    | Easement                       | N/A                        | C    | 51                |
| 8         | VCP      | J-16    | J-15    | Easement                       | Root Cut                   | C    | 199               |
| 8         | VCP      | J-17    | J-16    | Easement                       | N/A                        | C    | 207               |
| 8         | VCP      | JA-1    | J-1     | Willow Ln                      | N/A                        | C    | 403               |
| 8         | VCP      | JB-1    | J-1     | Willow Ln                      | Mineral<br>Cleaning        | C    | 114               |
| 8         | VCP      | JB-2    | JB-1    | Willow Ln                      | Root Cut                   | C    | 242               |
| 8         | VCP      | JB-3    | JB-2    | Willow Ln                      | N/A                        | C    | 365               |
| 8         | VCP      | JB-4    | JB-3    | W 23rd Ave                     | N/A                        | C    | 349               |
| 8         | VCP      | JB-5    | JB-4    | W 23rd Ave                     | N/A                        | C    | 116               |
| 8         | VCP      | JB-6    | JB-5    | Youngfield St                  | N/A                        | C    | 99                |
| 8         | VCP      | JB-12   | JB-11   | Beech Ct                       | Accelerated<br>Maintenance | C    | 243               |
| 8         | VCP      | JB-13   | JB-12   | Beech Ct                       | N/A                        | C    | 268               |
| 8         | VCP      | JB-14   | JB-13   | Beech Ct                       | N/A                        | C    | 277               |
| 8         | VCP      | JB-15   | JB-14   | Beech Ct                       | N/A                        | C    | 278               |
| 8         | VCP      | JB-16   | JB-15   | Beech Ct                       | Accelerated<br>Maintenance | C    | 279               |
| 8         | VCP      | JB-17A  | JB-17   | W 20th Ave                     | N/A                        | C    | 271               |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>   | <u>Rehabilitation</u>      | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|----------------------|----------------------------|-------------|--------------------------|
| 8                | VCP             | JB-17       | JB-16       | Beech Ct             | N/A                        | C           | 63                       |
| 8                | VCP             | JB-18       | JB-17A      | W 20th Ave           | N/A                        | C           | 126                      |
| 8                | VCP             | JBA-1       | JB-6        | Youngfield St        | N/A                        | C           | 372                      |
| 8                | VCP             | JBA-2       | JBA-1       | Youngfield St        | N/A                        | C           | 368                      |
| 8                | VCP             | JBA-5       | JBA-4       | W 21st Ave           | N/A                        | C           | 400                      |
| 8                | VCP             | JBA-6       | JBA-5       | W 21st Ave           | N/A                        | C           | 198                      |
| 8                | VCP             | JBA-7       | JBA-6       | Alkire St            | N/A                        | C           | 81                       |
| 8                | VCP             | JBA-8       | JBA-7       | Alkire St            | N/A                        | C           | 81                       |
| 8                | VCP             | JBA-9       | JBA-8       | Alkire St            | Root Cut                   | C           | 193                      |
| 8                | VCP             | JBB-1       | JB-7        | Yellowstone St       | Root Cut                   | C           | 69                       |
| 8                | VCP             | JBB-2       | JBB-1       | Yellowstone St       | Accelerated Maintenance    | C           | 316                      |
| 8                | VCP             | JBB-3       | JBB-2       | Yellowstone St       | N/A                        | C           | 251                      |
| 8                | VCP             | JBC-1       | JB-8        | Zang St              | Accelerated Maintenance    | C           | 79                       |
| 8                | VCP             | JBC-3       | JBC-2       | Zang St              | N/A                        | C           | 237                      |
| 8                | VCP             | JBD-1       | JB-9        | Zinnia St            | Root Cut                   | C           | 91                       |
| 8                | VCP             | JBD-2       | JBD-1       | Zinnia St            | N/A                        | C           | 312                      |
| 8                | VCP             | JBD-3       | JBD-2       | Zinnia St            | N/A                        | C           | 245                      |
| 8                | VCP             | JBE-1       | JB-12       | Zinnia Way           | N/A                        | C           | 211                      |
| 8                | VCP             | JBE-2       | JBE-1       | Zinnia Way           | N/A                        | C           | 144                      |
| 8                | VCP             | JBE-3       | JBE-2       | Zinnia Way           | N/A                        | C           | 146                      |
| 8                | VCP             | JBE-4       | JBE-3       | Zinnia Way           | Root Cut                   | C           | 96                       |
| 8                | VCP             | JBF-1       | JB-13       | Alkire St            | N/A                        | C           | 184                      |
| 8                | VCP             | JBF-2       | JBF-1       | Alkire St            | N/A                        | C           | 64                       |
| 8                | VCP             | JBF-3       | JBF-2       | Alkire St            | N/A                        | C           | 69                       |
| 8                | VCP             | JC-1-1      | JC-1        | Myrtlewood Ln        | N/A                        | C           | 244                      |
| 8                | VCP             | JC-1        | J-3         | Myrtlewood Ln        | Accelerated Maintenance    | C           | 188                      |
| 8                | VCP             | JC-3        | JC-2        | Myrtlewood Ln        | N/A                        | C           | 130                      |
| 8                | VCP             | JC-4        | JC-3        | Myrtlewood Ln        | N/A                        | C           | 99                       |
| 8                | VCP             | JD-1        | J-4         | Applewood Dr         | N/A                        | C           | 140                      |
| 8                | VCP             | JD-2        | JD-1        | Applewood Dr         | Root Cut                   | C           | 165                      |
| 8                | VCP             | JD-3        | JD-2        | Applewood Dr         | Root Cut                   | C           | 111                      |
| 8                | VCP             | JD-4        | JD-3        | Applewood Dr         | N/A                        | C           | 101                      |
| 8                | VCP             | JE-1        | J-5         | Rosewood Dr easement | Accelerated Maintenance    | C           | 159                      |
| 8                | PVC             | LAMPHOLE    | J-7-2       | W 20th Ave           | N/A                        | C           | 15                       |
| 12               | VCP             | P-3A        | P-3         | W 15th Dr            | Accelerated Maintenance    | C           | 186                      |
| 12               | VCP             | P-4         | P-3A        | W 15th Dr            | N/A                        | C           | 75                       |
| 12               | VCP             | P-5         | P-4         | W 15th Dr            | Cut intruding tap at 96.3' | C           | 1                        |
| 12               | VCP             | P-6         | P-5         | W 15th Dr            | N/A                        | C           | 226                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>                        | <u>Rehabilitation</u>      | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|---|----------------------------|-------------|--------------------------|
| 8                | VCP             | P-7-2A      | BO-11       | W 16th Dr                                 | N/A                        | C           | 296                      |
| 8                | VCP             | P-7-1-LH    | P-7-2A      | Alkire Ct                                 | N/A                        | C           | 73                       |
| 8                | VCP             | P-7-3       | P-7-2       | W 16th Dr                                 | N/A                        | C           | 328                      |
| 8                | VCP             | P-7-4       | P-7-3       | W 16th Dr                                 | N/A                        | C           | 273                      |
| 6                | PVC             | P-9-1B      | P-9-1A      | Arbutus St<br>easement                    | N/A                        | C           | 4                        |
| 10               | VCP             | P-10        | P-9         | Arbutus St                                | Accelerated<br>Maintenance | C           | 121                      |
| 8                | PVC             | P-11A-1     | P-11A       | W Colfax Ave<br>easement                  | N/A                        | C           | 31                       |
| 8                | PVC             | P-11A-2     | P-11A-1     | W Colfax Ave<br>easement                  | N/A                        | C           | 155                      |
| 10               | VCP             | P-11        | P-10        | Arbutus St                                | N/A                        | C           | 202                      |
| 10               | VCP             | P-12        | P-11        | Orchard Dr                                | Mineral<br>Cleaning        | C           | 124                      |
| 10               | VCP             | P-14        | P-13        | Orchard Dr                                | N/A                        | C           | 228                      |
| 10               | VCP             | P-15        | P-14        | Easement                                  | N/A                        | C           | 146                      |
| 10               | VCP             | P-16        | P-15        | Easement                                  | Accelerated<br>Maintenance | C           | 333                      |
| 10               | VCP             | P-17        | P-16        | Easement                                  | N/A                        | C           | 334                      |
| 10               | VCP             | P-18        | P-17        | Easement                                  | N/A                        | C           | 343                      |
| 10               | VCP             | P-19        | P-18        | Easement                                  | N/A                        | C           | 382                      |
| 8                | VCP             | P-20        | P-19        | Easement                                  | N/A                        | C           | 218                      |
| 8                | PVC             | SC-2-1      | SC-2        | Alkire St                                 | N/A                        | C           | 320                      |
| 8                | PVC             | SC-2A       | SC-2        | W 9th Pl                                  | N/A                        | C           | 170                      |
| 8                | PVC             | SC-2B       | SC-2A       | Alkire Ct                                 | N/A                        | C           | 212                      |
| 8                | PVC             | SC-2        | SC-1        | Alkire St                                 | N/A                        | C           | 48                       |
| 8                | PVC             | SC-3        | SC-2-1      | Alkire St                                 | N/A                        | C           | 320                      |
| 8                | VCP             | BX-4        | BX-3        | Yank St                                   | N/A                        | C           | 196                      |
| 8                | PVC             | B-62-2      | B-62-1      | Youngfield St                             | N/A                        | C           | 70                       |
| 15               | VCP             | B-86A       | B-84        | Wide Acres Rd                             | N/A                        | C           | 150                      |
| 8                | VCP             | BOD-2-2     | BOD-2-1     | Alkire Ct                                 | N/A                        | C           | 148                      |
| 8                | VCP             | BS-2A       | BS-2        | Easement                                  | Mineral<br>Cleaning        | C           | 27                       |
| 12               | PVC             | P-1         | P-1-1       | Youngfield St                             | N/A                        | C           | 1                        |
| 8                | VCP             | P-7-2       | P-7-2A      | W 16th Dr                                 | N/A                        | C           | 4                        |
| 10               | VCP             | P-11        | P-11-1      | Orchard Dr                                | N/A                        | C           | 2                        |
| 8                | VCP             | B-62-1      | B-62        | Youngfield<br>St/Winfield Cir<br>easement | Accelerated<br>Maintenance | C           | 211                      |

At the next scheduled televising, these lines will be re-evaluated to determine if any sections have degraded such that they require being moved from Category 1 to Category 2 priority.

## VI. CATEGORY 2 REPAIRS – MEDIUM PRIORITY



Mainlines in this condition category were determined to have minor structural issue(s) or minor vertical sags, root intrusions, cracks, infiltration and/or grease issues during the televising review. Although an immediate repair is not necessary at this stage, Martin/Martin, Inc. recommends placing these mainlines on a “Hot Spot” list, requiring accelerated cleaning and televising annually to verify the mainline condition status has not deteriorated. A list of these mainlines is shown below and is also provided on a District map, Map F.

*Table 2: Category 2 Repairs*

| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u>    | <u>Rehabilitation</u>                 | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|-----------------------|---------------------------------------|-------------|--------------------------|
| 12               | VCP             | A-36B       | A-36        | W 32nd Ave            | Mineral Cleaning                      | A           | 137                      |
| 8                | VCP             | A-47A-14    | A-47A-13    | W 26th Ave            | CIPP                                  | B           | 150                      |
| 8                | VCP             | A-56A-4     | A-56A-3     | Skyline Dr            | Accelerated Maintenance               | B           | 264                      |
| 8                | VCP             | AB-1        | A-31        | Robb Cir              | Root Cut                              | A           | 80                       |
| 8                | VCP             | AB-2        | AB-1        | Robb Cir              | Root Cut                              | A           | 230                      |
| 8                | VCP             | AB-4        | AB-3        | Robb Cir              | Root Cut                              | A           | 175                      |
| 8                | VCP             | AB-5        | AB-4        | Robb Cir              | Mineral Cleaning                      | A           | 170                      |
| 8                | VCP             | AB-10-1     | AB-10       | Simms St              | Mineral Cleaning                      | A           | 160                      |
| 8                | VCP             | AB-10-6-4A  | AB-10-6-3A  | Taft Ct               | Root Cut, Cut intruding tap at 175.6' | A           | 205                      |
| 8                | VCP             | AB-10-6     | AB-10-5     | Easement              | Accelerated Maintenance               | A           | 175                      |
| 8                | VCP             | AB-11-1A    | AB-11       | W 28th Ave            | Accelerated Maintenance               | A           | 175                      |
| 8                | VCP             | ACA-3       | ACA-2       | Simms St              | Accelerated Maintenance               | A           | 290                      |
| 8                | VCP             | ACC-2       | ACC-1       | W 30th Pl             | Accelerated Maintenance               | A           | 225                      |
| 8                | PVC             | ACE-1       | AC-3        | Tabor Dr              | Root Cut                              | A           | 114                      |
| 8                | VCP             | AD-2        | AD-1        | Routt Cir             | Root Cut                              | A           | 225                      |
| 8                | VCP             | AD-3        | AD-2        | Routt Cir             | Mineral Cleaning                      | A           | 125                      |
| 8                | VCP             | AD-4        | AD-3        | Routt Cir             | CIPP                                  | A           | 125                      |
| 8                | VCP             | AD-6-2      | AD-6-1      | W 29th Pl             | Root Cut, CIPP                        | A           | 100                      |
| 8                | VCP             | B-11R-7A-5  | B-11R-7A-4A | Applewood Knolls Dr   | Accelerated Maintenance               | B           | 66                       |
| 12               | VCP             | B-46        | B-45        | Willow Ln             | Accelerated Maintenance               | C           | 87                       |
| 8                | PVC             | B-62        | B-61-1      | Winfield Cir easement | Accelerated Maintenance               | C           | 33                       |
| 8                | VCP             | BF-9-1      | BF-9        | Ward Rd               | Root Cut                              | A           | 265                      |
| 8                | VCP             | BF-16A-2    | BF-16A-1    | Youngfield Service Rd | Root Cut                              | A           | 245                      |
| 12               | VCP             | BF-17A      | BF-17       | Easement              | Mineral Cleaning                      | A           | 164                      |
| 8                | VCP             | BF-18-3-LH  | BF-18-3     | W 33rd Pl             | Accelerated Maintenance               | A           | 210                      |
| 12               | VCP             | BF-18       | BF-17A      | W 33rd Ave            | Accelerated Maintenance               | A           | 250                      |
| 12               | VCP             | BF-19       | BF-18       | Alkire Ct             | Mineral Cleaning                      | A           | 300                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u>  | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>       | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|--------------|-------------|--------------------|-----------------------------|-------------|--------------------------|
| 12               | VCP             | BF-20        | BF-19       | Alkire Ct          | Mineral Cleaning            | A           | 375                      |
| 12               | VCP             | BF-21        | BF-20       | Easement           | Mineral Cleaning            | A           | 155                      |
| 8                | VCP             | BG-3A-LH     | BG-3A       | Urban Ct           | Mineral Cleaning            | A           | 275                      |
| 8                | VCP             | BG-5-1       | BG-5        | Vivian Ct          | Mineral Cleaning            | A           | 200                      |
| 8                | VCP             | BH-1-9-2-6-1 | BH-1-9-2-6A | Easement           | Accelerated Maintenance     | B           | 150                      |
| 8                | VCP             | BH-1-9-2-6A  | BH-1-9-2-6  | Easement           | Accelerated Maintenance     | B           | 20                       |
| 8                | VCP             | C-3B-7       | C-3B-6A     | Easement           | CIPP                        | A           | 190                      |
| 8                | VCP             | C-6-5        | C-6-4       | W 27th Ave         | CIPP                        | A           | 325                      |
| 6                | VCP             | C-8A-2       | C-8A-1      | Quail St           | Accelerated Maintenance     | A           | 142                      |
| 6                | VCP             | C-8A-3       | C-8A-2      | Quail St           | Accelerated Maintenance     | A           | 75                       |
| 8                | VCP             | CG-1         | C-14AD      | Tabor St           | Accelerated Maintenance     | A           | 200                      |
| 8                | VCP             | CGA-5        | CGA-4       | W 24th Pl Cir      | Accelerated Maintenance     | A           | 130                      |
| 8                | VCP             | GD-2         | GD-1        | Miller St          | Root Cut                    | B           | 350                      |
| 8                | VCP             | P-1-1        | B-62-B      | Youngfield St      | Mineral Cleaning            | C           | 81                       |
| 8                | VCP             | Z-4          | Z-3         | Alkire St          | Mineral Cleaning            | A           | 220                      |
| 8                | PVC             | Z-7-1        | Z-7         | Alkire St          | Root Cut                    | A           | 295                      |
| 8                | VCP             | Z-7          | Z-6         | Alkire St          | Mineral Cleaning            | A           | 400                      |
| 8                | VCP             | Z-8          | Z-7         | W 26th Ave         | Accelerated Maintenance     | A           | 290                      |
| 8                | VCP             | Z-14         | Z-13        | W 25th Ave         | Root Cut                    | A           | 214                      |
| 8                | VCP             | Z-20         | Z-19        | W 22nd Pl          | Root Cut                    | A           | 232                      |
| 8                | VCP             | ZC-13-2      | ZC-13-1     | Braun Dr           | Mineral Cleaning            | A           | 318                      |
| 8                | VCP             | ZC-14        | ZC-13       | Coors Dr           | Root Cut                    | A           | 263                      |
| 8                | VCP             | ZD-3-5       | ZD-3-4      | W 23rd Pl          | 10' Point Repair at 85'-95' | A           | 149                      |
| 8                | VCP             | ZD-5         | ZD-4        | W 26th Ave         | Mineral Cleaning            | A           | 270                      |
| 8                | VCP             | AB-10-9-6    | AB-10-9-5   | Taft St            | Root Cut                    | A           | 200                      |
| 8                | VCP             | B-2A-A       | B-2A        | Easement           | Root Cut                    | A           | 225                      |
| 8                | VCP             | BE-2         | BE-1        | Union St           | Root Cut                    | C           | 265                      |
| 8                | VCP             | BG-2A-LH     | BG-2A       | Urban St           | Root Cut                    | A           | 225                      |
| 8                | VCP             | BG-6-1       | BG-6        | Ward Rd            | Root Cut                    | A           | 350                      |
| 8                | PVC             | C-1A-4-5     | C-1A-4-4    | W 30th Ave         | Accelerated Maintenance     | A           | 130                      |
| 8                | VCP             | Z-16         | Z-15        | W 22nd Pl          | Root Cut                    | A           | 270                      |
| 8                | VCP             | ZD-1         | Z-9         | W 26th Ave         | Accelerated Maintenance     | A           | 265                      |
| 8                | VCP             | ZD-3-2       | ZD-3-1      | W 23rd Pl          | Root Cut                    | A           | 208                      |
| 8                | VCP             | ZD-3-4       | ZD-3-3      | W 23rd Pl          | Accelerated Maintenance     | A           | 312                      |
| 8                | VCP             | ZD-4-1       | ZD-4        | W 24th Pl          | Mineral Cleaning            | A           | 400                      |
| 8                | VCP             | ZC-8-2       | ZC-8-1      | W 21st Ave         | Mineral Cleaning            | A           | 88                       |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u>  | <u>DSMH</u> | <u>Street Name</u>  | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|--------------|-------------|---------------------|-------------------------|-------------|--------------------------|
| 8                | VCP             | A-34A-2      | A-34A-1     | Easement            | Mineral Cleaning        | A           | 295                      |
| 8                | VCP             | AB-10-4      | AB-10-3     | W 28th Pl           | Mineral Cleaning        | A           | 275                      |
| 8                | VCP             | AB-10-10     | AB-10-9     | Applewood Knolls Dr | Root Cut                | A           | 260                      |
| 8                | VCP             | AB-10-9-1    | AB-10-9     | Easement            | Root Cut                | A           | 262                      |
| 8                | VCP             | ACD-4        | ACD-3       | W 29th Pl           | Mineral Cleaning        | A           | 200                      |
| 8                | VCP             | C-3B-6       | C-3B-5      | Easement            | Mineral Cleaning        | A           | 122                      |
| 8                | VCP             | Z-21-1       | Z-21        | W 22nd Ave          | Mineral Cleaning        | A           | 70                       |
| 8                | VCP             | Z-21-2       | Z-21-1      | W 22nd Ave          | Mineral Cleaning        | A           | 127                      |
| 8                | VCP             | Z-21-3       | Z-21-2      | W 22nd Ave          | Root Cut                | A           | 386                      |
| 8                | VCP             | ZC-1         | Z-8         | Braun Dr            | Mineral Cleaning        | A           | 238                      |
| 8                | VCP             | ZC-13-1      | ZC-13       | Braun Dr            | Mineral Cleaning        | A           | 318                      |
| 8                | VCP             | ZC-15-1      | ZC-15       | W 20th Pl           | Accelerated Maintenance | A           | 70                       |
| 8                | VCP             | ZC-15-2      | ZC-15-1     | W 20th Pl           | Mineral Cleaning        | A           | 136                      |
| 8                | VCP             | ZC-15        | ZC-14       | Coors Dr            | Mineral Cleaning        | A           | 73                       |
| 8                | VCP             | ZD-3         | ZD-2        | W 26th Ave          | Root Cut                | A           | 270                      |
| 8                | VCP             | ZJ-2-1       | ZJ-2        | W 23rd Ave          | Mineral Cleaning        | A           | 82                       |
| 8                | VCP             | AB-13-2      | AB-13-1     | Easement            | CIPP                    | A           | 203                      |
| 24               | VCP             | B-9-1        | B-8-1       | Vivian Dr           | Accelerated Maintenance | C           | 265                      |
| 18               | CI              | B-13-1       | B-12-1      | W 32nd Ave          | Accelerated Maintenance | C           | 264                      |
| 12               | VCP             | B-15A-1      | B-15A       | Wright St           | Accelerated Maintenance | C           | 300                      |
| 18               | VCP             | B-17-1       | B-16-1      | W 31st Ave          | Accelerated Maintenance | C           | 390                      |
| 8                | PVC             | B-18-2N      | B-18-1N     | Xenon St            | Accelerated Maintenance | C           | 230                      |
| 12               | VCP             | B-19         | B-18        | Xenon St            | Accelerated Maintenance | C           | 400                      |
| 18               | PVC             | B-20-1       | B-19-1      | Xenon St            | Accelerated Maintenance | C           | 265                      |
| 12               | VCP             | B-22         | B-21        | Easement            | Accelerated Maintenance | C           | 400                      |
| 8                | VCP             | B-26-2-1-A-A | B-26-2-1-A  | Youngfield St       | Accelerated Maintenance | C           | 155                      |
| 8                | VCP             | B-26-2-1-B   | B-26-2-1-A  | W 24th Pl           | CIPP                    | C           | 375                      |
| 8                | VCP             | B-26-2-4     | B-26-2-3    | W 26th Ave          | Root Cut                | C           | 300                      |
| 8                | VCP             | B-26-2-5     | B-26-2-4    | W 26th Ave          | Accelerated Maintenance | C           | 214                      |
| 12               | VCP             | B-28         | B-27        | Willow Ln easement  | Mineral Cleaning        | C           | 338                      |
| 12               | VCP             | B-29         | B-28        | Willow Ln easement  | Accelerated Maintenance | C           | 50                       |
| 12               | VCP             | B-30         | B-29        | Willow Ln easement  | Accelerated Maintenance | C           | 125                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>   | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|-------------------------|-------------|--------------------------|
| 12               | VCP             | B-31        | B-30        | Willow Ln easment  | Mineral Cleaning        | C           | 165                      |
| 12               | VCP             | B-33        | B-32        | Willow Ln easment  | Mineral Cleaning        | C           | 115                      |
| 12               | VCP             | B-34        | B-33        | Willow Ln easment  | Mineral Cleaning        | C           | 200                      |
| 12               | VCP             | B-35        | B-34        | Willow Ln easment  | Mineral Cleaning        | C           | 300                      |
| 12               | VCP             | B-36        | B-35        | Willow Ln easment  | Mineral Cleaning        | C           | 178                      |
| 12               | VCP             | B-44        | B-43        | Willow Ln          | Mineral Cleaning        | C           | 282                      |
| 12               | VCP             | B-45        | B-44        | Willow Ln          | Mineral Cleaning        | C           | 150                      |
| 8                | VCP             | B-67-1-2    | B-67-1-1    | Youngfield St      | Accelerated Maintenance | C           | 200                      |
| 6                | PVC             | B-67-3      | B-67-2      | W 15th Pl          | Accelerated Maintenance | C           | 301                      |
| 10               | CI              | B-74B       | B-74A       | W Colfax Ave       | Accelerated Maintenance | C           | 184                      |
| 15               | VCP             | B-81A       | B-80A       | Overhill Rd        | Accelerated Maintenance | C           | 185                      |
| 15               | VCP             | B-82A       | B-81A       | W 14th Pl          | Accelerated Maintenance | C           | 340                      |
| 8                | VCP             | B-84        | B-83        | Yank St            | Accelerated Maintenance | C           | 237                      |
| 8                | VCP             | B-86        | B-84        | Wide Acres Rd      | Accelerated Maintenance | C           | 151                      |
| 8                | VCP             | B-89        | B-88        | Zinnia St          | Accelerated Maintenance | C           | 345                      |
| 8                | VCP             | B-95        | B-94        | W 10th Ave         | Accelerated Maintenance | C           | 314                      |
| 8                | VCP             | BE-1        | B-6A        | Union St           | Accelerated Maintenance | C           | 275                      |
| 12               | VCP             | BF-8        | BF-7        | W 34th Pl          | Accelerated Maintenance | A           | 230                      |
| 12               | VCP             | BF-9        | BF-8        | Ward Rd            | Accelerated Maintenance | A           | 78                       |
| 8                | VCP             | BM-1        | B-55        | Applewood Dr       | Accelerated Maintenance | C           | 288                      |
| 8                | VCP             | BN-1        | B-56-1-D    | Willow Ln          | Accelerated Maintenance | C           | 200                      |
| 8                | VCP             | BO-4        | BO-3        | W 16th Dr          | Accelerated Maintenance | C           | 200                      |
| 8                | VCP             | BO-8        | BO-7        | W 16th Dr          | Accelerated Maintenance | C           | 400                      |
| 8                | PVC             | BO-13       | BO-12       | Alkire St          | Accelerated Maintenance | C           | 275                      |
| 8                | VCP             | BOA-2       | BOA-1       | Youngfield Ct      | CIPP                    | C           | 404                      |
| 8                | VCP             | BOA-3-3     | BOA-3-2     | Yank Ct            | Root Cut                | C           | 191                      |
| 8                | VCP             | BOA-4-1     | BOA-4       | Zang St            | Accelerated Maintenance | C           | 245                      |
| 8                | VCP             | BOA-4-2     | BOA-4-1     | Zang St            | Accelerated Maintenance | C           | 400                      |





| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>      | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|----------------------------|-------------|--------------------------|
| 8                | VCP             | BOA-4-4     | BOA-4-3     | Zang St            | Cut intruding tap at 84.5' | C           | 185                      |
| 8                | VCP             | BOA-5-2     | BOA-5-1     | Zinnia St          | CIPP                       | C           | 400                      |
| 8                | VCP             | BOA-5-4     | BOA-5-3     | Zinnia St          | Accelerated Maintenance    | C           | 200                      |
| 8                | VCP             | BOA-5-5     | BOA-5-4     | Zinnia St          | Accelerated Maintenance    | C           | 210                      |
| 8                | VCP             | BOA-6-3-2   | BOA-6-3-1   | Alkire St          | Accelerated Maintenance    | C           | 200                      |
| 8                | VCP             | BOB-1       | BO-5        | Zinnia St          | CIPP                       | C           | 217                      |
| 8                | VCP             | BOB-2       | BOB-1       | Willow Way         | Accelerated Maintenance    | C           | 350                      |
| 8                | VCP             | BOB-3       | BOB-2       | Willow Way         | Root Cut                   | C           | 210                      |
| 8                | VCP             | BOD-1       | BO-12       | Willow Ln          | CIPP                       | C           | 175                      |
| 8                | VCP             | BR-4        | BR-3        | Orchard Rd         | Root Cut                   | C           | 371                      |
| 8                | VCP             | BR-5-3      | BR-5-2      | Wide Acres Rd      | Accelerated Maintenance    | C           | 225                      |
| 8                | VCP             | BS-2A-2     | BS-2A-1     | Meadowsweet Rd     | CIPP                       | C           | 180                      |
| 8                | VCP             | BT-4        | BT-3        | Wide Acres Rd      | Accelerated Maintenance    | C           | 220                      |
| 8                | VCP             | BW-1A-4     | BW-1A-3     | Xenophon St        | Accelerated Maintenance    | C           | 300                      |
| 8                | VCP             | BW-1A       | BW-1        | Youngfield St      | Accelerated Maintenance    | C           | 380                      |
| 8                | VCP             | BX-3        | BX-2        | Yank St            | Root Cut                   | C           | 350                      |
| 18               | VCP             | P-11-1      | P-10-1      | Arbutus St         | Mineral Cleaning           | C           | 200                      |
| 10               | VCP             | P-11A       | P-11        | Orchard Dr         | Mineral Cleaning           | C           | 227                      |
| 18               | VCP             | P-4-1       | P-3-1       | W 15th Dr          | Accelerated Maintenance    | C           | 295                      |
| 18               | VCP             | P-6-1       | P-4-1       | W 15th Dr          | Accelerated Maintenance    | C           | 445                      |
| 8                | VCP             | BY-1        | B-87        | Zang St            | Root Cut                   | C           | 380                      |
| 8                | VCP             | BZ-1        | B-95        | Alkire St          | Root Cut                   | C           | 179                      |
| 8                | VCP             | J-2         | J-1         | Rosewood Dr        | Accelerated Maintenance    | C           | 200                      |
| 8                | VCP             | J-14-1      | J-14        | Easement           | Accelerated Maintenance    | C           | 125                      |
| 8                | VCP             | JA-2        | JA-1        | Willow Ln          | Root Cut                   | C           | 230                      |
| 8                | VCP             | JB-8        | JB-7        | W 23rd Ave         | Root Cut                   | C           | 280                      |
| 8                | VCP             | JB-9        | JB-8        | W 23rd Ave         | Root Cut                   | C           | 290                      |
| 8                | VCP             | JB-11       | JB-10       | W 23rd Ave         | Accelerated Maintenance    | C           | 83                       |
| 8                | VCP             | JB-17A-1    | JB-17A      | W Alkire St        | Root Cut                   | C           | 375                      |
| 8                | VCP             | JBA-3       | JBA-2       | W 21st Ave         | Root Cut                   | C           | 400                      |
| 8                | VCP             | JBA-4       | JBA-3       | W 21st Ave         | Root Cut                   | C           | 400                      |
| 8                | VCP             | JBC-2       | JBC-1       | Zang St            | Accelerated Maintenance    | C           | 324                      |
| 8                | VCP             | JC-2        | JC-1        | Myrtlewood Ln      | Accelerated Maintenance    | C           | 230                      |





| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>                                | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|--|-------------|--------------------------|
| 12               | PVC             | P-2         | P-1         | W 15th Dr          | CIPP   | C           | 111                      |
| 12               | VCP             | P-3         | P-2         | W 15th Dr          | Accelerated Maintenance, Cut intruding tap at 112.7' | C           | 385                      |
| 12               | VCP             | P-7         | P-6         | W 15th Dr          | CIPP   | C           | 338                      |
| 10               | VCP             | P-9         | P-8         | Arbutus St         | Accelerated Maintenance                              | C           | 100                      |
| 10               | VCP             | P-13        | P-12        | Orchard Dr         | Accelerated Maintenance                              | C           | 192                      |

Total Hot Spot Recommendations –37,625LF.

Please note that several mainline segments shown as part of Category 2 Repairs are also shown on the Annual Root Cut List/or Mineral List. These segments are to be televised once during the calendar year.

As the District’s budget allows, lines located within Category 2 will be reviewed and added to the recommended repairs (Category 3) if increased deterioration from the annual televising is observed.

The total cleaning and televising lengths for the “Hot Spot” recommendations (37,625LF) are shown within Section IV. It is also Martin/Martin, Inc.’s recommendation to televise all root and mineral lines throughout the District that are currently on the annual root cutting list and mineral list. This will allow the District to review the condition of these mainlines and determine if any repairs (full linings) are warranted, allowing the District to remove these mainlines from the annual root cut list and mineral list.

Due to the large amount of Category 2 lines this year, it is recommended that Hot Spots be televised only in the Zone that is being Jetted for the year to reduce the linear footage. For example, in 2022 it is recommended that Hot Spots within Zone A be televised. 2023 will contain Zone B Hot Spots and 2024 will contain Zone C Hot Spots. This schedule will reduce the large amount of televising proposed for 2022 while televising each category “2” pipe segment once every three years. However, jet-cleaning of the Hot Spots is recommended to be performed annually as accelerated maintenance. A map, Map J and tables outlining this schedule can be found in the Appendix of this report.

## VII. CATEGORY 3 REPAIRS – HIGH PRIORITY

Mainlines in this condition category were determined to have significant structural issues (infiltration, broken pipe, multiple fractures), which include severe offsets and/or heavy root intrusions. Martin/Martin, Inc. recommends repairing mainlines in this category due to severity of line condition. It is recommended to address the identified concerns during the next calendar year, depending on budget and prioritization, to mitigate potential mainline failure and operational issues. A list of these mainlines is shown below with asterisk segments being from 2021 that were deferred (not completed), and is also provided on a District map, Map G.

*Table 3: Category 3 Repairs*

| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u> | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|-----------------------|-------------|--------------------------|
| 8                | VCP             | AB-12-2     | AB-12-1     | W 27th Pl          | CIPP                  | A           | 404                      |



| <u>Size (in)</u> | <u>Material</u> | <u>USMH</u> | <u>DSMH</u> | <u>Street Name</u> | <u>Rehabilitation</u>               | <u>Zone</u> | <u>Total Length (ft)</u> |
|------------------|-----------------|-------------|-------------|--------------------|-------------------------------------|-------------|--------------------------|
| 8                | VCP             | AD-6-3      | AD-6-2      | W 29th Pl          | Root Cut, CIPP                      | A           | 303                      |
| 12               | VCP             | BF-7        | BF-6        | W 34th Pl          | 10' Point Repair at 5'-15'          | A           | 113                      |
| 12               | VCP             | BF-17       | BF-16A      | Easement           | 10' Point Repair at 15'-25'         | A           | 118                      |
| 8                | VCP             | BF-18-2     | BF-18-1     | W 33rd Pl          | CIPP                                | A           | 25                       |
| 8                | VCP             | C-6-4       | C-6-3       | W 27th Ave         | CIPP                                | A           | 261                      |
| 8                | VCP             | CM-5        | CM-4        | Routt St           | CIPP                                | A           | 116                      |
| 8                | VCP             | ZD-2-1      | ZD-2        | W 22nd Pl          | CIPP                                | A           | 231                      |
| 8                | VCP             | AB-11-3A    | AB-11-2A    | W 28th Ave         | Root Cut, CIPP                      | A           | 271                      |
| 8                | VCP             | ACB-3       | ACB-2       | Swadley Dr         | Root Cut, CIPP                      | A           | 54                       |
| 8                | VCP             | BG-9        | BG-8        | Wright St          | Root Cut, CIPP                      | A           | 240                      |
| 8                | VCP             | A-47A-9     | A-47A-8     | Paramount Pkwy     | Mineral Cleaning, CIPP              | B           | 204                      |
| 8                | VCP             | C-4A-1      | C-4A        | W 27th Pl          | Mineral Cleaning, CIPP              | A           | 396                      |
| 8                | VCP             | C-6-3-1A    | C-6-3-1     | W 26th Pl          | Root Cut, Mineral Cleaning, CIPP    | A           | 275                      |
| 8                | VCP             | C-6-3-2     | C-6-3-1     | W 26th Pl          | Mineral Cleaning, CIPP              | A           | 323                      |
| 8                | VCP             | B-11R-28B-1 | B-11R-28B   | Easement           | Root Cut, CIPP                      | B           | 161                      |
| 8                | VCP             | B-16A-A     | B-16A       | Wright Ct          | CIPP                                | C           | 399                      |
| 12               | VCP             | B-37        | B-36        | Willow Ln easement | CIPP                                | C           | 141                      |
| 8                | VCP             | BO-3        | BO-2A       | W 16th Dr          | 5' CIPP at 25'-30'                  | C           | 199                      |
| 8                | VCP             | BO-11       | BO-10       | W 16th Dr          | CIPP                                | C           | 150                      |
| 8                | VCP             | BOA-6-2     | BOA-6-1     | Zinnia Ct          | CIPP                                | C           | 354                      |
| 8                | VCP             | BOB-4       | BOB-3       | Willow Way         | 5' CIPP at 0'-5'                    | C           | 173                      |
| 8                | VCP             | BOD-3       | BOD-2       | Willow Ln          | 5' CIPP x2 at 20'-25' and 325'-330' | C           | 402                      |
| 8                | VCP             | BOD-4-1     | BOD-4       | N Arbutus St       | CIPP                                | C           | 190                      |
| 8                | VCP             | BS-3        | BS-2A       | Easement           | Root Cut, Mineral Cleaning, CIPP    | C           | 328                      |
| 8                | VCP             | BZ-1A       | BZ-1        | Alkire St easement | CIPP                                | C           | 405                      |
| 8                | VCP             | J-8A        | J-8         | W 20th Ave         | 10' Point Repair at 0'-10'          | C           | 46                       |
| 8                | VCP             | JB-7        | JB-6        | W 23rd Ave         | 5' point repair at 255'-260'        | C           | 360                      |
| 8                | VCP             | JB-10       | JB-9        | W 23rd Ave         | CIPP                                | C           | 286                      |
| 12               | VCP             | P-8         | P-7         | W 15th Dr          | CIPP                                | C           | 374                      |
| 8                | VCP             | B-81        | B-80        | Overhill Rd        | 5' CIPP at 185'-190'                | C           | 205                      |
| 8                | VCP             | BOD-2-2B    | BOD-2-2A    | Winfield Pl        | CIPP                                | C           | 247                      |
| 8                | VCP             | ZD-3-1      | ZD-3        | W 23rd Pl          | 5' Point Repair, Root Cut, CIPP     | A           | 400                      |
| 8                | VCP             | Z-1         | BF-21       | Alkire St          | CIPP                                | A           | 385                      |
| 8                | VCP             | BP-1A       | BP-1        | Easement           | CIPP                                | *B          | 181                      |



| Size (in) | Material | USMH        | DSMH      | Street Name    | Rehabilitation                | Zone | Total Length (ft) |
|-----------|----------|-------------|-----------|----------------|-------------------------------|------|-------------------|
| 6         | VCP      | B-11R-7-1   | B-11R-7   | Easement       | Remove and Replace 6" with 8" | *B   | 1                 |
| 6         | VCP      | B-11R-7-2   | B-11R-7-1 | W 29th PI      | 5' Point Repair, CIPP         | *B   | 258               |
| 6         | VCP      | B-11R-7-3   | B-11R-7-2 | W 29th PI      | 5' Point Repair, CIPP         | *B   | 65                |
| 6         | VCP      | B-11R-7-2-1 | B-11R-7-2 | Easement       | 10' Point Repair              | *B   | 1                 |
| 8         | VCP      | C-2         | C-1A      | Quail St       | CIPP                          | *A   | 300               |
| 8         | VCP      | C-2A-1      | C-2A      | W. 29th Ave    | Mineral Clean                 | *A   | 400               |
| 8         | VCP      | ACB-1       | ACA-1     | Swadley Dr     | Root Cut, CIPP                | *A   | 355               |
| 8         | VCP      | AC-1A       | AC-1      | W. 32nd Ave    | Remove Heavy Debris           | *A   | 225               |
| 8         | VCP      | AD-6        | AD-5      | Routt Cir      | Mineral Clean                 | *A   | 114               |
| 8         | VCP      | AB-5-1      | AB-5      | W. 30th Ave    | Mineral Clean                 | *A   | 100               |
| 8         | VCP      | AB-12-3     | AB-12-2   | W. 27th PI     | Remove Obstacle, CIPP         | *A   | 250               |
| 12        | VCP      | BF-11       | BF-10     | Easement       | Remove Heavy Debris           | *A   | 150               |
| 12        | VCP      | BF-14       | BF-13     | Easement       | Replace CIPP                  | *A   | 314               |
| 8         | VCP      | Z-2         | Z-1       | Alkire St      | Remove Rocks                  | *A   | 370               |
| 8         | VCP      | GF-15       | GF-14     | Linda Vista Dr | Remove Rocks                  | *B   | 100               |
| 8         | VCP      | CGA-1       | CG-2      | W. 25th Ave    | 5' Point Repair, CIPP         | *A   | 300               |
| 8         | VCP      | ZD-5-3      | ZD-5-2    | W. 25th PI     | Mineral Clean, CIPP           | *A   | 400               |
| 8         | VCP      | Z-15        | Z-14      | W. 22nd PI     | Root Cut                      | *A   | 200               |
| 8         | VCP      | ZD-3-3      | ZD-3-2    | W. 23rd PI     | Root Cut, CIPP                | *A   | 135               |
| 8         | VCP      | ZC-8        | ZC-7      | Braun Dr       | 5' Point Repair, CIPP         | *A   | 270               |

\*Denotes 2021 repairs that have not yet been completed

Total Footages:

1. Point Repairs – 15
2. Full Linings – 9,351 LF
3. Mineral Cleaning – 2,540 LF
4. Root Cut – 2,722 LF

### VIII. CATEGORY 4 REPAIRS – EMERGENCY REPAIRS

Mainlines in this condition category are considered emergency issues, which are coordinated directly with the District Board of Directors for improvement. The following emergency repair was scheduled and **completed in early April 2022** as it was discovered through CCTV review.

| Size (in) | Material | USMH | DSMH | Street Name | Rehabilitation   | Zone | Total Length (ft) |
|-----------|----------|------|------|-------------|------------------|------|-------------------|
| 8         | PVC      | B-83 | B-82 | Yank St     | 10' Point Repair | C    | 400               |

### IX. 2022 NWLSD/CPWSD INTERCEPTOR REPAIRS

#### A. 2022 NWLSD-CPWSD Interceptor Estimated Costs

Below is a cost estimate for needed repairs on the NWLSD-CPWSD Interceptor for 2022.



Table 4: 2022 NWLSD-CPWSD Interceptor Estimated Costs

| <u>MAINLINE</u>                                    | <u>NWLSD % USE</u> | <u>NWLSD COSTS No Markup</u> | <u>TOTAL NWLSD ESTIMATE WITH Eng/Escal/Cont (1.52)</u> | <u>CPWSD % USE</u> | <u>CPWSD COSTS No Markup</u> | <u>TOTAL CPWSD ESTIMATE WITH Eng/Escal/Cont (1.52)</u> |
|--|--------------------|------------------------------|--|--------------------|------------------------------|--|
| Priority 3.1 - RO-29 to RO-28 (Full CIPP Lining)   | 58%                | \$137,808.00                 | \$209,468.16   | 42%                | \$99,792.00                  | \$151,683.84   |
| Priority 3.1 - B-O-2 to B-O-1 (Accel. Maint.)      | 58%                | \$2,900.00                   | \$4,408.00   | 42%                | \$2,100.00                   | \$3,192.00   |
| <b>Priority 3.1 Total</b>                          |                    | <b>\$140,708.00</b>          | <b>\$213,876.16</b>                                    |                    | <b>\$101,892.00</b>          | <b>\$154,875.84</b>                                    |
| Priority 3.2 - RO-28 to RO-27 (Remove & Replace)   | 58%                | \$108,808.00                 | \$165,388.16   | 42%                | \$78,792.00                  | \$119,763.84   |
| Priority 3.2 - B-O-1 to A-27A-1 (Remove & Replace) | 58%                | \$273,644.00                 | \$415,938.88   | 42%                | \$198,156.00                 | \$301,197.12   |
| <b>Priority 3.2 Total</b>                          |                    | <b>\$382,452.00</b>          | <b>\$581,327.04</b>                                    |                    | <b>\$276,948.00</b>          | <b>\$420,960.96</b>                                    |
| <b>Overall Total</b>                               |                    | <b>\$523,160.00</b>          | <b>\$795,203.20</b>                                    |                    | <b>\$378,840.00</b>          | <b>\$575,836.00</b>                                    |

## X. 2023 NWLSD/CPWSD INTERCEPTOR REPAIRS

### A. 2023 NWLSD-CPWSD Interceptor Estimated Costs

Below is a cost estimate for needed repairs on the NWLSD-CPWSD Interceptor for 2023.

Table 5: 2023 NWLSD-CPWSD Interceptor Estimated Costs

| <u>MAINLINE</u>                     | <u>NWLSD % USE</u> | <u>NWLSD COSTS No Markup</u> | <u>TOTAL NWLSD ESTIMATE WITH Eng/Escal/Cont (1.52)</u> | <u>CPWSD % USE</u> | <u>CPWSD COSTS No Markup</u> | <u>TOTAL CPWSD ESTIMATE WITH Eng/Escal/Cont (1.52)</u> |
|-------------------------------------|--------------------|------------------------------|--|--------------------|------------------------------|--|
| B-13-1 to B-12-1 (Full CIPP Lining) | 36%                | \$46,440.00                  | \$70,588.80  | 64%                | \$82,560.00                  | \$125,491.20   |
| B-10-1 to B-9-1 (5' CIPP Lining)    | 36%                | \$16,200.00                  | \$24,624.00  | 64%                | \$28,800.00                  | \$169,267.20.00  |
| <b>Total</b>                        |                    | <b>\$62,640.00</b>           | <b>\$95,212.80</b>                                     |                    | <b>\$111,360.00</b>          | <b>\$169,267.20</b>                                    |



## XI. SUMMARY OF ESTIMATED COSTS – CATEGORY 1 THROUGH 4 REPAIRS

On the following pages, spreadsheets of repair costs for the identified Category repairs are provided. Below is a summary of costs including contingency and engineering estimates.

### A. Category Repairs Costs

1. Category 1 (Low Priority) - \$60,745.71
2. Category 2 (Medium Priority – Hot Spots) - \$450,509.60
3. Category 3 (High Priority – Recommended Repairs) - \$1,765,635.31
4. Category 4 (Emergency Repairs) - \$17,555.00 - COMPLETE
5. 2022 NWLSD-CPWSD Interceptor Repairs\* - \$795,203.20
  - Priority 3.1 Total = \$213,876.16
  - Priority 3.2 Total = \$581,327.04
6. 2023 NWLSD-CPWSD Interceptor Repairs\* - \$95,212.80

*\*NWLSD portion only of CPWSD/NWLSD interceptor cost*

**TOTAL OF ALL POTENTIAL CATEGORY REPAIRS: \$3,167,306.62**

**TOTAL OF CATEGORY 3 PLUS 2022 INTERCEPTOR REPAIRS: \$2,560,838.51**

## XII. SUMMARY OF ESTIMATED COSTS – 2022 & 2023 JET CLEANING AND TELEVISIONING

On the following pages, spreadsheets of repair costs for the identified Category repairs are provided. Below is a summary of costs including contingency and engineering estimates.

### A. Cleaning/Televising Costs 2022

Total Length of Jet Cleaning – 149,362 LF – \$76,174.62

- Zone A Scheduled Jet Cleaning – 112,097 LF – \$57,169.47
- Zone A Hot Spots – 15,231 LF - \$7,767.81
- Zone B & C Hot Spots – 22,034 LF - \$11,237.34

Total Length of televising – 37,265 LF - \$25,340.20

- Root Cut (All Zones) – 9,870 LF - \$6,711.60
- Mineral Cleaning (All Zones) – 8,353 LF - \$5,680.04
- Accelerated Maintenance (All Zones) – 19,042 LF – \$12,948.56

**TOTAL OF CLEANING/TELEVISIONING 2022: \$101,514.82**

### B. Estimated Cleaning/Televising Costs 2023

- Zone B Jet Cleaning and Televising – 128,140 LF - \$152,486.60
- Zone A & C (Hot Spots) Jet Cleaning and Televising – 33,759 LF - \$40,173.21

EOPC – CATEGORY 1, 2, 3, 2022 - 2023 INTERCEPTOR REPAIRS

**Project:** Northwest Lakewood 2022 CIP  
**Location:** Lakewood, Golden, Wheat Ridge  
**Subject:** EOPC - Category 1 - Low Priority  
**Client:** Northwest Lakewood Sanitation District

**Date:** 22-Jun-22  
**Job No.:** 17.0638.C.10  
**Prep. By:** AG  
**Ckd. By:** BW

**Note:** Any opinions of price, probable project costs or construction costs rendered by MARTIN/MARTIN represent its best judgment and are furnished for general guidance. MARTIN/MARTIN makes no warranty of guarantee, either expressed or implied as to the accuracy of such opinions as compared to bid or actual cost.

| Item No. | Size [in] | Material | USMH        | DSMH        | Location                 | Recommended Rehab           | Units | Quantity | Unit Price  | Item Cost   |
|----------|-----------|----------|-------------|-------------|--------------------------|-----------------------------|-------|----------|-------------|-------------|
| 1        | 24        | VCP      | A-32-1A     | A-32-1      | W 32nd Ave               | N/A                         | LF    | 316      | \$ -        | \$ -        |
| 2        | 8         | VCP      | A-47A-11    | A-47A-10    | Paramount Pkwy           | Accelerated Maintenance     | LF    | 290      | \$ 1.19     | \$ 344.62   |
| 3        | 8         | VCP      | AB-10-6-2A  | AB-10-6-1A  | Taft Ct                  | Root Cut                    | LF    | 269      | \$ 1.85     | \$ 498.02   |
| 4        | 8         | VCP      | AB-11       | AB-10       | Simms St                 | N/A                         | LF    | 288      | \$ -        | \$ -        |
| 5        | 8         | VCP      | AC-1        | A-30        | W 32nd Ave               | N/A                         | LF    | 404      | \$ -        | \$ -        |
| 6        | 8         | VCP      | ACD-1       | ACA-3       | W 29th Pl                | Accelerated Maintenance     | LF    | 329      | \$ 1.19     | \$ 391.51   |
| 7        | 8         | VCP      | ACD-3       | ACD-2       | W 29th Pl                | Accelerated Maintenance     | LF    | 255      | \$ 1.19     | \$ 303.93   |
| 8        | 8         | PVC      | BO-6        | BO-5        | W 16th Dr                | N/A                         | LF    | 225      | \$ -        | \$ -        |
| 9        | 8         | VCP      | B-1AA       | B-1         | Easement                 | N/A                         | LF    | 420      | \$ -        | \$ -        |
| 10       | 21        | PVC      | B-64-1      | B-63-1      | W 16th Pl                | N/A                         | LF    | 274      | \$ -        | \$ -        |
| 11       | 8         | PVC      | B-76-1      | B-75        | W Colfax Ave             | Accelerated Maintenance     | LF    | 100      | \$ 1.19     | \$ 119.36   |
| 12       | 8         | PVC      | B-77        | B-76-1      | W Colfax Ave             | N/A                         | LF    | 162      | \$ -        | \$ -        |
| 13       | 10        | VCP      | B-78A       | B-74B       | Normandy Rd/W Colfax Ave | N/A                         | LF    | 107      | \$ -        | \$ -        |
| 14       | 8         | VCP      | B-78        | B-78A       | Normandy Rd              | N/A                         | LF    | 8        | \$ -        | \$ -        |
| 15       | 12        | VCP      | BF-6        | BF-5        | W 34th Pl                | Accelerated Maintenance     | LF    | 222      | \$ 1.19     | \$ 264.30   |
| 16       | 8         | VCP      | BG-2        | BG-1        | Union St                 | N/A                         | LF    | 90       | \$ -        | \$ -        |
| 17       | 6         | VCP      | BHN-6-1-4   | BHN-6-1-3   | Tabor Pl                 | Cut intruding tap at 245.0' | EA    | 1        | \$ 2,500.00 | \$ 2,500.00 |
| 18       | 8         | PVC      | BR-2-3      | BR-2-2      | Easement                 | N/A                         | LF    | 469      | \$ -        | \$ -        |
| 19       | 8         | VCP      | BR-2-4      | BR-2-3      | Easement                 | N/A                         | LF    | 130      | \$ -        | \$ -        |
| 20       | 8         | VCP      | C-3B-2-2    | C-3B-2-1    | W 28th Pl                | N/A                         | LF    | 98       | \$ -        | \$ -        |
| 21       | 8         | VCP      | C-10-1      | C-10        | Robb St                  | N/A                         | LF    | 187      | \$ -        | \$ -        |
| 22       | 8         | VCP      | C-18        | C-17        | Urban St                 | Root Cut                    | LF    | 404      | \$ 1.85     | \$ 747.40   |
| 23       | 8         | VCP      | CG-6        | CG-5        | Easement                 | Root Cut                    | LF    | 259      | \$ 1.85     | \$ 479.15   |
| 24       | 8         | VCP      | CGA-8       | CGA-7       | Simms St                 | N/A                         | LF    | 105      | \$ -        | \$ -        |
| 25       | 8         | VCP      | CM-6        | CM-5        | W 25th Pl                | Accelerated Maintenance     | LF    | 207      | \$ 1.19     | \$ 245.85   |
| 26       | 8         | VCP      | EA-3        | EA-2A       | Iris St                  | N/A                         | LF    | 67       | \$ -        | \$ -        |
| 27       | 8         | PVC      | G-1A        | A-61        | W 25th Ave               | N/A                         | LF    | 205      | \$ -        | \$ -        |
| 28       | 21        | PVC      | P-1-1       | B-64-1      | Youngfield St            | N/A                         | LF    | 89       | \$ -        | \$ -        |
| 29       | 8         | VCP      | Z-6         | Z-5         | Alkire St                | N/A                         | LF    | 408      | \$ -        | \$ -        |
| 30       | 8         | VCP      | Z-21        | Z-20        | W 22nd Ave               | N/A                         | LF    | 324      | \$ -        | \$ -        |
| 31       | 8         | VCP      | ZC-13-3A    | ZC-13-2A    | W 20th Ave               | Accelerated Maintenance     | LF    | 47       | \$ 1.19     | \$ 55.81    |
| 32       | 8         | VCP      | ZC-17       | ZC-16       | Coors Dr                 | Root Cut                    | LF    | 134      | \$ 1.85     | \$ 247.35   |
| 33       | 8         | VCP      | ZC-8-1      | ZC-8        | W 21st Ave               | Accelerated Maintenance     | LF    | 138      | \$ 1.19     | \$ 164.70   |
| 34       | 8         | VCP      | ZE-5        | ZE-4        | W 21st Pl                | Accelerated Maintenance     | LF    | 47       | \$ 1.19     | \$ 56.05    |
| 35       | 8         | VCP      | A-37C       | A-37B       | Oak St                   | N/A                         | LF    | 199      | \$ -        | \$ -        |
| 36       | 8         | VCP      | A-37G       | A-37F       | Oak St                   | N/A                         | LF    | 225      | \$ -        | \$ -        |
| 37       | 8         | VCP      | B-2A-3      | B-2A-2      | Easement                 | N/A                         | LF    | 55       | \$ -        | \$ -        |
| 38       | 8         | VCP      | B-2A-4      | B-2A-3      | Easement                 | N/A                         | LF    | 150      | \$ -        | \$ -        |
| 39       | 8         | VCP      | B-2A-6-2    | B-2A-6-1    | Taft Ct                  | Root Cut                    | LF    | 420      | \$ 1.85     | \$ 777.56   |
| 40       | 8         | VCP      | B-2A-1      | B-2A-A      | Easement                 | N/A                         | LF    | 57       | \$ -        | \$ -        |
| 41       | 8         | VCP      | B-11R-7A-4F | B-11R-7A-4E | W 27th Dr                | N/A                         | LF    | 197      | \$ -        | \$ -        |
| 42       | 8         | VCP      | C-3B-2-3    | C-3B-2-2    | W 28th Pl                | Root Cut                    | LF    | 219      | \$ 1.85     | \$ 404.41   |
| 43       | 8         | VCP      | CM-4        | CM-3        | Rouff St                 | N/A                         | LF    | 100      | \$ -        | \$ -        |
| 44       | 8         | VCP      | Z-17        | Z-16        | W 22nd Pl                | Root Cut                    | LF    | 141      | \$ 1.85     | \$ 260.30   |
| 45       | 8         | VCP      | Z-18        | Z-17        | W 22nd Pl                | Root Cut                    | LF    | 142      | \$ 1.85     | \$ 262.52   |
| 46       | 8         | VCP      | ZD-4-3      | ZD-4-2      | W 24th Pl                | Root Cut                    | LF    | 75       | \$ 1.85     | \$ 138.57   |
| 47       | 8         | VCP      | ZD-4-4      | ZD-4-3      | W 24th Pl                | Root Cut                    | LF    | 336      | \$ 1.85     | \$ 621.60   |
| 48       | 8         | VCP      | ZE-7        | ZE-6        | W 21st Pl                | Accelerated Maintenance     | LF    | 111      | \$ 1.19     | \$ 131.50   |
| 49       | 8         | VCP      | ZH-3        | ZH-2        | Creighton Dr             | Accelerated Maintenance     | LF    | 131      | \$ 1.19     | \$ 155.65   |
| 50       | 8         | VCP      | A-23A-1C    | A-23A-1B    | Quail St                 | N/A                         | LF    | 414      | \$ -        | \$ -        |
| 51       | 8         | VCP      | A-34A-3     | A-34A-2     | W 30th Pl                | Mineral Cleaning            | LF    | 124      | \$ 1.85     | \$ 229.96   |
| 52       | 8         | VCP      | A-37B-4-1   | A-37B-4     | W 31st Ave               | Accelerated Maintenance     | LF    | 136      | \$ 1.19     | \$ 161.72   |
| 53       | 8         | VCP      | A-56A-3A    | A-56A-3     | Skyline Dr               | N/A                         | LF    | 70       | \$ -        | \$ -        |
| 54       | 8         | VCP      | AB-8        | AB-7A       | Robb Cir                 | N/A                         | LF    | 16       | \$ -        | \$ -        |
| 55       | 8         | VCP      | AB-9        | AB-8        | Robb Cir                 | Mineral Cleaning            | LF    | 143      | \$ 1.85     | \$ 264.37   |
| 56       | 8         | VCP      | AB-10-9-1B  | AB-10-9-1A  | W 27th Dr                | Mineral Cleaning            | LF    | 99       | \$ 1.85     | \$ 183.15   |
| 57       | 8         | VCP      | AB-10-9-2-1 | AB-10-9-2   | Tabor St                 | Mineral Cleaning            | LF    | 135      | \$ 1.85     | \$ 249.75   |
| 58       | 8         | VCP      | AB-10-9-2-2 | AB-10-9-2-1 | Tabor St                 | Accelerated Maintenance     | LF    | 129      | \$ 1.19     | \$ 153.75   |
| 59       | 8         | VCP      | AB-11-2-1   | AB-11-2     | W 28th Ave               | Accelerated Maintenance     | LF    | 99       | \$ 1.19     | \$ 118.05   |
| 60       | 8         | VCP      | AB-11-3     | AB-11-2     | W 28th Ave               | Mineral Cleaning            | LF    | 112      | \$ 1.85     | \$ 206.83   |
| 61       | 8         | VCP      | C-3B-4      | C-3B-3      | Oak St                   | Accelerated Maintenance     | LF    | 319      | \$ 1.19     | \$ 379.13   |
| 62       | 8         | VCP      | C-3B-5      | C-3B-4      | Easement                 | Mineral Cleaning            | LF    | 170      | \$ 1.85     | \$ 314.50   |
| 63       | 8         | VCP      | D-10        | D-9         | Rangeview Dr             | Mineral Cleaning            | LF    | 113      | \$ 1.85     | \$ 209.79   |
| 64       | 8         | VCP      | Z-22        | Z-21        | Coors Dr                 | Mineral Cleaning            | LF    | 109      | \$ 1.85     | \$ 202.39   |
| 65       | 8         | VCP      | ZC-2        | ZC-1        | Braun Dr                 | Mineral Cleaning            | LF    | 209      | \$ 1.85     | \$ 386.47   |
| 66       | 8         | VCP      | ZC-13       | ZC-12       | Braun Dr                 | Root Cut                    | LF    | 191      | \$ 1.85     | \$ 353.35   |
| 67       | 8         | VCP      | ZJ-2-2      | ZJ-2-1      | W 23rd Ave               | Mineral Cleaning            | LF    | 62       | \$ 1.85     | \$ 114.70   |
| 68       | 8         | VCP      | AB-13-1     | AB-13       | Easement                 | N/A                         | LF    | 176      | \$ -        | \$ -        |
| 69       | 8         | VCP      | BOD-2-9     | BOD-2-8     | Cole Blvd                | N/A                         | LF    | 345      | \$ -        | \$ -        |
| 70       | 8         | VCP      | B-6A        | B-6         | Union St                 | N/A                         | LF    | 24       | \$ -        | \$ -        |
| 71       | 8         | PVC      | B-6         | B-5A        | Union St                 | N/A                         | LF    | 340      | \$ -        | \$ -        |
| 72       | 24        | VCP      | B-7-1A      | B-7-1       | Vivian Dr                | N/A                         | LF    | 100      | \$ -        | \$ -        |
| 73       | 24        | VCP      | B-7-1       | BF-1A       | Vivian Dr                | N/A                         | LF    | 183      | \$ -        | \$ -        |
| 74       | 15        | VCP      | B-7         | BF-1A-A     | Vivian Dr                | N/A                         | LF    | 176      | \$ -        | \$ -        |
| 75       | 24        | VCP      | B-8-1       | B-7-1A      | Vivian Dr                | N/A                         | LF    | 300      | \$ -        | \$ -        |
| 76       | 8         | VCP      | B-8R-1      | B-8R        | Vivian Ct                | N/A                         | LF    | 157      | \$ -        | \$ -        |
| 77       | 15        | VCP      | B-8R        | B-7         | Vivian Dr                | Accelerated Maintenance     | LF    | 411      | \$ 1.19     | \$ 488.97   |
| 78       | 15        | VCP      | B-9         | B-8R        | Vivian Dr                | Accelerated Maintenance     | LF    | 250      | \$ 1.19     | \$ 297.38   |
| 79       | 15        | VCP      | B-10        | B-9         | Vivian Dr                | N/A                         | LF    | 321      | \$ -        | \$ -        |
| 80       | 24        | VCP      | B-11R-1A    | B-10-1      | Vivian Dr                | Mineral Cleaning            | LF    | 205      | \$ 1.85     | \$ 378.51   |
| 81       | 15        | VCP      | B-11R       | B-10        | Vivian Dr                | N/A                         | LF    | 182      | \$ -        | \$ -        |
| 82       | 18        | PVC      | B-12-1      | B-11R-1A    | Vivian Dr                | N/A                         | LF    | 58       | \$ -        | \$ -        |
| 83       | 15        | VCP      | B-12        | B-11R       | Vivian Dr                | Root Cut                    | LF    | 55       | \$ 1.85     | \$ 102.31   |
| 84       | 8         | VCP      | B-13-1A-1   | B-13-1A     | Wright Ct                | N/A                         | LF    | 243      | \$ -        | \$ -        |
| 85       | 8         | VCP      | B-13-1A     | B-13        | W 32nd Ave               | N/A                         | LF    | 299      | \$ -        | \$ -        |
| 86       | 8         | VCP      | B-13-2A     | B-13-1A     | W 32nd Ave               | N/A                         | LF    | 268      | \$ -        | \$ -        |
| 87       | 12        | VCP      | B-13        | B-12        | W 32nd Ave               | N/A                         | LF    | 265      | \$ -        | \$ -        |
| 88       | 18        | PVC      | B-14-1      | B-13-1      | Ward Ct                  | N/A                         | LF    | 444      | \$ -        | \$ -        |
| 89       | 12        | VCP      | B-14        | B-13        | Ward Ct                  | N/A                         | LF    | 406      | \$ -        | \$ -        |
| 90       | 18        | PVC      | B-15-1      | B-14-1      | Ward Ct                  | N/A                         | LF    | 156      | \$ -        | \$ -        |
| 91       | 8         | VCP      | B-15X-1     | B-15        | Ward Ct                  | N/A                         | LF    | 351      | \$ -        | \$ -        |
| 92       | 8         | VCP      | B-15-2      | B-15X-1     | Ward Ct                  | N/A                         | LF    | 344      | \$ -        | \$ -        |
| 93       | 8         | PVC      | B-15-3A-1   | B-15-3A     | Wright Ct                | N/A                         | LF    | 190      | \$ -        | \$ -        |
| 94       | 8         | VCP      | B-15-3A     | B-15-3      | W 29th Ave               | N/A                         | LF    | 192      | \$ -        | \$ -        |
| 95       | 8         | VCP      | B-15-3      | B-15-2      | W 29th Ave               | N/A                         | LF    | 301      | \$ -        | \$ -        |
| 96       | 8         | VCP      | B-15-4      | B-15-3A     | W 29th Ave               | N/A                         | LF    | 108      | \$ -        | \$ -        |
| 97       | 8         | VCP      | B-15A-2     | B-15A-1     | Wright St                | N/A                         | LF    | 227      | \$ -        | \$ -        |
| 98       | 12        | VCP      | B-15A       | B-15        | W 31st Ave               | N/A                         | LF    | 263      | \$ -        | \$ -        |
| 99       | 8         | VCP      | B-15B-1     | B-15A       | Wright St                | N/A                         | LF    | 199      | \$ -        | \$ -        |
| 100      | 8         | VCP      | B-15B-2     | B-15B-1     | Wright St                | N/A                         | LF    | 205      | \$ -        | \$ -        |
| 101      | 8         | VCP      | B-15B-3     | B-15B-2     | W 29th Pl                | N/A                         | LF    | 227      | \$ -        | \$ -        |
| 102      | 12        | VCP      | B-15        | B-14        | Ward Ct                  | Cut intruding tap at 93.2'  | EA    | 1        | \$ 2,500.00 | \$ 2,500.00 |
| 103      | 18        | VCP      | B-16-1      | B-15-1      | W 31st Ave               | N/A                         | LF    | 325      | \$ -        | \$ -        |
| 104      | 8         | VCP      | B-16A-1     | B-16A       | Wright Ct                | N/A                         | LF    | 197      | \$ -        | \$ -        |
| 105      | 8         | VCP      | B-16A-2     | B-16A-1     | Wright Ct                | Accelerated Maintenance     | LF    | 322      | \$ 1.19     | \$ 383.30   |
| 106      | 8         | VCP      | B-16A       | B-16        | W 31st Ave               | Mineral Cleaning            | LF    | 128      | \$ 1.85     | \$ 236.62   |
| 107      | 12        | VCP      | B-16        | B-15A       | W 31st Ave               | Accelerated Maintenance     | LF    | 140      | \$ 1.19     | \$ 166.24   |
| 108      | 12        | VCP      | B-17        | B-16        | W 31st Ave               | N/A                         | LF    | 201      | \$ -        | \$ -        |
| 109      | 18        | PVC      | B-18-1A     | B-18-1      | W 31st Ave               | N/A                         | LF    | 43       | \$ -        | \$ -        |

| Item No. | Size (in) | Material | USMH       | DSMH       | Location                            | Recommended Rehab       | Units | Quantity | Unit Price | Item Cost |
|----------|-----------|----------|------------|------------|-------------------------------------|-------------------------|-------|----------|------------|-----------|
| 110      | 18        | VCP      | B-18-1     | B-17-1     | W 31st Ave                          | Accelerated Maintenance | LF    | 97       | \$ 1.19    | \$ 114.84 |
| 111      | 8         | VCP      | B-18A      | B-18       | W 31st Ave                          | N/A                     | LF    | 248      | \$ -       | \$ -      |
| 112      | 8         | PVC      | B-18-1N    | B-18       | Xenon St                            | Root Cut                | LF    | 296      | \$ 1.85    | \$ 546.68 |
| 113      | 8         | VCP      | B-18-2     | B-18A      | W 31st Ave                          | N/A                     | LF    | 130      | \$ -       | \$ -      |
| 114      | 8         | PVC      | B-18-3     | B-18-2     | W 31st Ave                          | N/A                     | LF    | 122      | \$ -       | \$ -      |
| 115      | 8         | VCP      | B-18-3N    | B-18-2N    | Xenon St                            | Accelerated Maintenance | LF    | 93       | \$ 1.19    | \$ 111.15 |
| 116      | 8         | PVC      | B-18-4     | B-18-4     | Youngfield St                       | N/A                     | LF    | 43       | \$ -       | \$ -      |
| 117      | 8         | VCP      | B-18-4-2   | B-18-4-1   | Youngfield St                       | Accelerated Maintenance | LF    | 417      | \$ 1.19    | \$ 495.99 |
| 118      | 8         | PVC      | B-18-4-3   | B-18-4-2   | Youngfield St                       | Accelerated Maintenance | LF    | 149      | \$ 1.19    | \$ 177.67 |
| 119      | 8         | VCP      | B-18-4     | B-18-3     | Youngfield St                       | Accelerated Maintenance | LF    | 283      | \$ 1.19    | \$ 336.89 |
| 120      | 8         | VCP      | B-18-4N    | B-18-3N    | W 32nd Ave                          | N/A                     | LF    | 370      | \$ -       | \$ -      |
| 121      | 12        | VCP      | B-18       | B-17       | W 31st Ave                          | N/A                     | LF    | 200      | \$ -       | \$ -      |
| 122      | 18        | PVC      | B-19-1     | B-18-1A    | Xenon St                            | N/A                     | LF    | 386      | \$ -       | \$ -      |
| 123      | 12        | VCP      | B-20       | B-19       | Xenon St                            | N/A                     | LF    | 304      | \$ -       | \$ -      |
| 124      | 18        | VCP      | B-20       | B-20-1     | Xenon St                            | N/A                     | LF    | 22       | \$ -       | \$ -      |
| 125      | 8         | PVC      | B-21-1A    | B-21       | Easement                            | N/A                     | LF    | 49       | \$ -       | \$ -      |
| 126      | 24        | PVC      | B-21-1     | B-20-1     | Xenon St easement                   | N/A                     | LF    | 417      | \$ -       | \$ -      |
| 127      | 8         | PVC      | B-21-2A    | B-21-1A    | Easement                            | N/A                     | LF    | 98       | \$ -       | \$ -      |
| 128      | 8         | PVC      | B-21-3A    | B-21-2A    | Easement                            | N/A                     | LF    | 177      | \$ -       | \$ -      |
| 129      | 12        | VCP      | B-21       | B-20       | Xenon St easement                   | N/A                     | LF    | 396      | \$ -       | \$ -      |
| 130      | 24        | PVC      | B-22-1     | B-21-1     | Easement                            | Accelerated Maintenance | LF    | 408      | \$ 1.19    | \$ 485.04 |
| 131      | 24        | PVC      | B-23-1     | B-22-1     | Easement                            | Accelerated Maintenance | LF    | 323      | \$ 1.19    | \$ 384.73 |
| 132      | 12        | VCP      | B-23       | B-22       | Easement                            | N/A                     | LF    | 327      | \$ -       | \$ -      |
| 133      | 24        | PVC      | B-24-1     | B-23-1     | Easement                            | N/A                     | LF    | 217      | \$ -       | \$ -      |
| 134      | 8         | VCP      | B-24-1     | B-24       | W 27th Ave                          | N/A                     | LF    | 198      | \$ -       | \$ -      |
| 135      | 8         | VCP      | B-24-2     | B-24-1     | Youngfield St                       | N/A                     | LF    | 273      | \$ -       | \$ -      |
| 136      | 15        | PVC      | B-24       | B-23       | Easement                            | N/A                     | LF    | 188      | \$ -       | \$ -      |
| 137      | 24        | PVC      | B-25-1     | B-24-1     | Willow Ln easement                  | N/A                     | LF    | 336      | \$ -       | \$ -      |
| 138      | 12        | VCP      | B-25       | B-24       | Willow Ln easement                  | N/A                     | LF    | 389      | \$ -       | \$ -      |
| 139      | 8         | VCP      | B-26-1     | B-26       | 26th Ave easement                   | N/A                     | LF    | 79       | \$ -       | \$ -      |
| 140      | 24        | PVC      | B-26-1-X   | B-25-1     | Willow Ln easement                  | N/A                     | LF    | 154      | \$ -       | \$ -      |
| 141      | 8         | VCP      | B-26-2-1A  | B-26-2-1   | Youngfield St                       | Accelerated Maintenance | LF    | 318      | \$ 1.19    | \$ 378.66 |
| 142      | 8         | VCP      | B-26-2-1   | B-26-2     | 26th Ave                            | N/A                     | LF    | 174      | \$ -       | \$ -      |
| 143      | 8         | VCP      | B-26-2-1-C | B-26-2-1-B | W 24th Pl                           | Root Cut                | LF    | 264      | \$ 1.85    | \$ 487.48 |
| 144      | 8         | VCP      | B-26-2-2   | B-26-2-1   | Youngfield St                       | N/A                     | LF    | 84       | \$ -       | \$ -      |
| 145      | 8         | VCP      | B-26-2-2   | B-26-2-2   | Youngfield St                       | N/A                     | LF    | 133      | \$ -       | \$ -      |
| 146      | 8         | VCP      | B-26-2-3   | B-26-2-5   | Beech Ct                            | N/A                     | LF    | 185      | \$ -       | \$ -      |
| 147      | 8         | VCP      | B-26-2-7   | B-26-2-6   | Beech Ct                            | N/A                     | LF    | 405      | \$ -       | \$ -      |
| 148      | 8         | VCP      | B-26-2-8-1 | B-26-2-8   | W 23rd Cir                          | N/A                     | LF    | 235      | \$ -       | \$ -      |
| 149      | 8         | VCP      | B-26-2-8-2 | B-26-2-8-1 | W 23rd Cir                          | N/A                     | LF    | 82       | \$ -       | \$ -      |
| 150      | 8         | VCP      | B-26-2-8-1 | B-26-2-8-3 | W 23rd Cir                          | Root Cut                | LF    | 125      | \$ 1.85    | \$ 231.07 |
| 151      | 8         | VCP      | B-26-2-8-3 | B-26-2-8-2 | W 23rd Cir                          | N/A                     | LF    | 164      | \$ -       | \$ -      |
| 152      | 8         | VCP      | B-26-2-8-4 | B-26-2-8-3 | W 23rd Cir                          | Root Cut                | LF    | 103      | \$ 1.85    | \$ 190.92 |
| 153      | 8         | VCP      | B-26-2-8-5 | B-26-2-8-4 | W 23rd Cir                          | Root Cut                | LF    | 180      | \$ 1.85    | \$ 333.37 |
| 154      | 8         | VCP      | B-26-2-8   | B-26-2-7   | Beech Ct                            | Accelerated Maintenance | LF    | 269      | \$ 1.19    | \$ 319.52 |
| 155      | 8         | VCP      | B-26-2-9   | B-26-2-8   | Beech Ct                            | N/A                     | LF    | 354      | \$ -       | \$ -      |
| 156      | 8         | VCP      | B-26-2-10  | B-26-2-9   | Beech Ct                            | Accelerated Maintenance | LF    | 241      | \$ 1.19    | \$ 286.43 |
| 157      | 8         | VCP      | B-26-2     | B-26-1     | 26th Ave                            | Accelerated Maintenance | LF    | 110      | \$ 1.19    | \$ 130.54 |
| 158      | 8         | VCP      | B-26-3     | B-26-2     | Youngfield St easement              | N/A                     | LF    | 123      | \$ -       | \$ -      |
| 159      | 8         | VCP      | B-26-4     | B-26-3     | Youngfield St easement              | N/A                     | LF    | 405      | \$ -       | \$ -      |
| 160      | 8         | VCP      | B-26-5     | B-26-4     | Youngfield St easement              | N/A                     | LF    | 53       | \$ -       | \$ -      |
| 161      | 12        | PVC      | B-26       | B-25       | Willow Ln easement                  | N/A                     | LF    | 159      | \$ -       | \$ -      |
| 162      | 24        | PVC      | B-27-1     | B-26-1-X   | Willow Ln easement                  | N/A                     | LF    | 116      | \$ -       | \$ -      |
| 163      | 12        | VCP      | B-27       | B-26       | Willow Ln easement                  | Mineral Cleaning        | LF    | 109      | \$ 1.85    | \$ 201.84 |
| 164      | 24        | PVC      | B-28-1     | B-27-1     | Willow Ln easement                  | N/A                     | LF    | 332      | \$ -       | \$ -      |
| 165      | 24        | PVC      | B-29-1     | B-28-1     | Willow Ln easement                  | N/A                     | LF    | 130      | \$ -       | \$ -      |
| 166      | 24        | PVC      | B-30-1     | B-29-1     | Willow Ln easement                  | N/A                     | LF    | 180      | \$ -       | \$ -      |
| 167      | 24        | PVC      | B-31-1     | B-30-1     | Willow Ln easement                  | N/A                     | LF    | 126      | \$ -       | \$ -      |
| 168      | 24        | PVC      | B-32-1     | B-31-1     | Willow Ln easement                  | N/A                     | LF    | 118      | \$ -       | \$ -      |
| 169      | 12        | VCP      | B-32       | B-31       | Willow Ln easement                  | Mineral Cleaning        | LF    | 242      | \$ 1.85    | \$ 447.89 |
| 170      | 24        | PVC      | B-33-1     | B-32-1     | Willow Ln easement                  | N/A                     | LF    | 250      | \$ -       | \$ -      |
| 171      | 24        | PVC      | B-34-1     | B-33-1     | Willow Ln easement                  | N/A                     | LF    | 318      | \$ -       | \$ -      |
| 172      | 24        | PVC      | B-35-1     | B-34-1     | Willow Ln easement                  | N/A                     | LF    | 162      | \$ -       | \$ -      |
| 173      | 24        | PVC      | B-36-1     | B-35-1     | Willow Ln easement                  | N/A                     | LF    | 117      | \$ -       | \$ -      |
| 174      | 24        | PVC      | B-37-1     | B-36-1     | Willow Ln easement                  | N/A                     | LF    | 213      | \$ -       | \$ -      |
| 175      | 24        | PVC      | B-38-1     | B-37-1     | Willow Ln easement                  | N/A                     | LF    | 155      | \$ -       | \$ -      |
| 176      | 12        | VCP      | B-39       | B-37       | Willow Ln easement                  | Mineral Cleaning        | LF    | 104      | \$ 1.85    | \$ 192.22 |
| 177      | 24        | PVC      | B-39-1     | B-38-1     | Willow Ln easement                  | N/A                     | LF    | 60       | \$ -       | \$ -      |
| 178      | 12        | VCP      | B-39       | B-38       | Willow Ln easement                  | Accelerated Maintenance | LF    | 100      | \$ 1.19    | \$ 119.00 |
| 179      | 24        | PVC      | B-40-1     | B-39-1     | Willow Ln easement                  | N/A                     | LF    | 79       | \$ -       | \$ -      |
| 180      | 12        | VCP      | B-40       | B-39       | Willow Ln easement                  | Accelerated Maintenance | LF    | 109      | \$ 1.19    | \$ 129.12 |
| 181      | 12        | VCP      | B-41       | B-40       | Willow Ln easement                  | Mineral Cleaning        | LF    | 134      | \$ 1.85    | \$ 248.64 |
| 182      | 12        | CI       | B-42-1L    | B-40-1L    | Willow Ln easement                  | N/A                     | LF    | 40       | \$ -       | \$ -      |
| 183      | 12        | VCP      | B-42-1R    | B-40-1R    | Willow Ln easement                  | Accelerated Maintenance | LF    | 40       | \$ 1.19    | \$ 47.24  |
| 184      | 12        | VCP      | B-42       | B-41       | Willow Ln                           | Accelerated Maintenance | LF    | 111      | \$ 1.19    | \$ 132.57 |
| 185      | 24        | PVC      | B-43-1     | B-42-1     | Willow Ln                           | N/A                     | LF    | 188      | \$ -       | \$ -      |
| 186      | 12        | VCP      | B-43       | B-42       | Willow Ln                           | N/A                     | LF    | 135      | \$ -       | \$ -      |
| 187      | 24        | PVC      | B-44-1     | B-43-1     | Willow Ln                           | N/A                     | LF    | 251      | \$ -       | \$ -      |
| 188      | 24        | PVC      | B-45-1     | B-44-1     | Willow Ln                           | N/A                     | LF    | 179      | \$ -       | \$ -      |
| 189      | 24        | PVC      | B-46-1     | B-45-1     | Willow Ln                           | N/A                     | LF    | 83       | \$ -       | \$ -      |
| 190      | 21        | PVC      | B-47       | B-46-1     | Willow Ln                           | N/A                     | LF    | 92       | \$ -       | \$ -      |
| 191      | 21        | PVC      | B-49       | B-47       | Willow Ln                           | N/A                     | LF    | 166      | \$ -       | \$ -      |
| 192      | 21        | PVC      | B-50       | B-49       | Willow Ln                           | N/A                     | LF    | 81       | \$ -       | \$ -      |
| 193      | 21        | PVC      | B-51       | B-50       | Willow Ln                           | N/A                     | LF    | 294      | \$ -       | \$ -      |
| 194      | 21        | PVC      | B-52       | B-51       | Willow Ln                           | N/A                     | LF    | 282      | \$ -       | \$ -      |
| 195      | 21        | PVC      | B-53       | B-52       | Willow Ln                           | N/A                     | LF    | 104      | \$ -       | \$ -      |
| 196      | 21        | PVC      | B-54       | B-53       | Willow Ln                           | N/A                     | LF    | 64       | \$ -       | \$ -      |
| 197      | 21        | PVC      | B-55       | B-54       | Willow Ln                           | N/A                     | LF    | 223      | \$ -       | \$ -      |
| 198      | 21        | PVC      | B-56-1-D   | B-55       | Willow Ln                           | N/A                     | LF    | 204      | \$ -       | \$ -      |
| 199      | 21        | PVC      | B-58       | B-56-1-D   | Youngfield St/Winfield Cir easement | N/A                     | LF    | 151      | \$ -       | \$ -      |
| 200      | 21        | PVC      | B-58A      | B-58       | Youngfield St/Winfield Cir easement | N/A                     | LF    | 121      | \$ -       | \$ -      |
| 201      | 21        | PVC      | B-59       | B-58A      | Winfield Cir easement               | N/A                     | LF    | 75       | \$ -       | \$ -      |
| 202      | 21        | PVC      | B-60-1     | B-59       | Winfield Cir                        | N/A                     | LF    | 276      | \$ -       | \$ -      |
| 203      | 21        | PVC      | B-61-1     | B-60-1     | Winfield Cir                        | N/A                     | LF    | 225      | \$ -       | \$ -      |
| 204      | 24        | PVC      | B-62-1A    | B-61-1     | Winfield Cir                        | N/A                     | LF    | 132      | \$ -       | \$ -      |
| 205      | -1        | VCP      | B-62-B     | B-61       | Youngfield St/W 16th Pl             | N/A                     | LF    | 135      | \$ -       | \$ -      |
| 206      | -1        | PVC      | B-63-1     | B-62-1A    | Winfield Dr                         | N/A                     | LF    | 176      | \$ -       | \$ -      |
| 207      | 12        | VCP      | B-65       | B-65       | W 16th Pl                           | N/A                     | LF    | 147      | \$ -       | \$ -      |
| 208      | 8         | VCP      | B-67-1-1   | B-67-1A    | Youngfield St                       | Root Cut                | LF    | 352      | \$ 1.85    | \$ 651.57 |
| 209      | 8         | VCP      | B-67-1-3   | B-67-1-2   | Youngfield St                       | N/A                     | LF    | 172      | \$ -       | \$ -      |
| 210      | 8         | VCP      | B-67-1A    | B-67-1     | Youngfield St                       | N/A                     | LF    | 86       | \$ -       | \$ -      |
| 211      | 8         | PVC      | B-67-1     | B-64-1     | Youngfield St                       | N/A                     | LF    | 280      | \$ -       | \$ -      |
| 212      | 8         | PVC      | B-67-2     | B-67-1A    | W 15th Pl                           | N/A                     | LF    | 53       | \$ -       | \$ -      |
| 213      | 12        | VCP      | B-67       | B-66       | W 16th Pl                           | N/A                     | LF    | 75       | \$ -       | \$ -      |
| 214      | 8         | VCP      | B-70       | P-3A       | W 15th Dr easement                  | N/A                     | LF    | 145      | \$ -       | \$ -      |
| 215      | 10        | VCP      | B-74A      | P-11A      | W Colfax Ave                        | Mineral Cleaning        | LF    | 249      | \$ 1.85    | \$ 460.28 |
| 216      | 8         | PVC      | B-75       | P-11A      | Oreland Dr                          | N/A                     | LF    | 101      | \$ -       | \$ -      |
| 217      | 8         | VCP      | B-76-2     | B-76-1     | Meadowsweet Rd                      | N/A                     | LF    | 322      | \$ -       | \$ -      |
| 218      | 12        | PVC      | B-76       | B-77       | W Colfax Ave                        | N/A                     | LF    | 388      | \$ -       | \$ -      |
| 219      | 8         | VCP      | B-78A      | B-78       | W Colfax Ave                        | N/A                     | LF    | 322      | \$ -       | \$ -      |
| 220      | 15        | VCP      | B-79       | B-78A      | W Colfax Ave                        | Accelerated Maintenance | LF    | 318      | \$ 1.19    | \$ 377.94 |
| 221      | 15        | VCP      | B-80A      | B-79       | W Colfax Ave                        | Accelerated Maintenance | LF    | 311      | \$ 1.19    | \$ 370.09 |
| 222      | 8         | VCP      | B-80       | B-79A      | W Colfax Ave                        | Accelerated Maintenance | LF    | 321      | \$ 1.19    | \$ 382.47 |
| 223      | 8         | VCP      | B-81       | B-81A      | W 14th Pl                           | N/A                     | LF    | 7        | \$ -       | \$ -      |
| 224      | 8         | PVC      | B-82-1-1   | B-82-1     | Youngfield St                       | N/A                     | LF    | 111      | \$ -       | \$ -      |
| 225      | 8         | PVC      | B-82-1-2A  | B-82-1-2   | W Colfax Ave                        | N/A                     | LF    | 118      | \$ -       | \$ -      |
| 226      | 8         | PVC      | B-82-1-2   | B-82-1-1   | Youngfield St                       | N/A                     | LF    | 196      | \$ -       | \$ -      |
| 227      | 8         | PVC      | B-82-1-3   | B-82-1-2A  | W Colfax Ave                        | N/A                     | LF    | 280      | \$ -       | \$ -      |
| 228      | 8         | PVC      | B-82-1-4   | B-82-1-3   | W Colfax Ave                        | N/A                     | LF    | 373      | \$ -       | \$ -      |
| 229      | 8         | PVC      | B-82-1-5   | B-82-1-4   | W Colfax Ave                        | N/A                     | LF    | 236      | \$ -       | \$ -      |
| 230      | 8         | PVC      | B-82-1A    | B-82-1     | Youngfield St                       | N/A                     | LF    | 230      | \$ -       | \$ -      |
| 231      | 8         | PVC      | B-82-1     | B-82       | W 14th Pl                           | N/A                     | LF    | 330      | \$ -       | \$ -      |
| 232      | 8         | PVC      | B-82-2     | B-82-1A    | Youngfield St                       | N/A                     | LF    | 225      | \$ -       | \$ -      |
| 233      | 8         | VCP      | B-82       | B-81       | W 14th Pl                           | Accelerated Maintenance | LF    | 337      | \$ 1.19    | \$ 400.91 |
| 234      | 15        | VCP      | B-83A      | B-82A      | Yank St                             | Accelerated Maintenance | LF    | 419      | \$ 1.19    | \$ 498.02 |



| Item No. | Size [in] | Material | USMH       | DSMH       | Location                         | Recommended Rehab       | Units | Quantity | Unit Price | Item Cost |
|----------|-----------|----------|------------|------------|----------------------------------|-------------------------|-------|----------|------------|-----------|
| 235      | 15        | VCP      | B-84       | B-83A      | Yank St                          | N/A                     | LF    | 224      | \$         | -         |
| 236      | 8         | VCP      | B-87       | B-84       | Wide Acres Rd                    | Accelerated Maintenance | LF    | 149      | \$         | 177.43    |
| 237      | 8         | VCP      | B-88       | B-87       | Wide Acres Rd                    | Accelerated Maintenance | LF    | 371      | \$         | 441.37    |
| 238      | 8         | VCP      | B-90       | B-89       | Zinnia St and W 11th Ave         | Accelerated Maintenance | LF    | 193      | \$         | 229.19    |
| 239      | 8         | VCP      | B-91       | B-90       | Zinnia St                        | Accelerated Maintenance | LF    | 117      | \$         | 139.59    |
| 240      | 8         | VCP      | B-92       | B-91       | Zinnia St                        | Accelerated Maintenance | LF    | 125      | \$         | 148.75    |
| 241      | 8         | VCP      | B-93       | B-92       | Zinnia St                        | N/A                     | LF    | 99       | \$         | -         |
| 242      | 8         | VCP      | B-94       | B-93       | Zinnia St                        | N/A                     | LF    | 248      | \$         | -         |
| 243      | 8         | VCP      | B-96       | B-95       | Alkire St                        | Accelerated Maintenance | LF    | 231      | \$         | 274.89    |
| 244      | 8         | VCP      | B-97       | B-96       | Alkire St                        | N/A                     | LF    | 137      | \$         | -         |
| 245      | 8         | VCP      | BE-1-1     | BE-1       | W 32nd Dr                        | N/A                     | LF    | 239      | \$         | -         |
| 246      | 8         | VCP      | BE-1-2     | BE-1-1     | W 32nd Dr                        | N/A                     | LF    | 366      | \$         | -         |
| 247      | 12        | VCP      | BF-1A-A    | B-5A       | W 34th Pl                        | N/A                     | LF    | 305      | \$         | -         |
| 248      | 24        | VCP      | BF-1A      | BF-1       | W 34th Pl                        | Accelerated Maintenance | LF    | 275      | \$         | 326.66    |
| 249      | 24        | VCP      | BF-1       | B-5        | Easement                         | Accelerated Maintenance | LF    | 52       | \$         | 61.52     |
| 250      | 18        | PVC      | BF-13A     | BF-13      | Easement                         | N/A                     | LF    | 16       | \$         | -         |
| 251      | 18        | PVC      | BF-14-1A   | BF-13A     | Easement                         | N/A                     | LF    | 396      | \$         | -         |
| 252      | 18        | PVC      | BF-14-1    | BF-14-1A   | Easement                         | N/A                     | LF    | 3        | \$         | -         |
| 253      | 8         | VCP      | BJ-1       | B-46       | W 20th Ave                       | Accelerated Maintenance | LF    | 349      | \$         | 415.67    |
| 254      | 8         | VCP      | BJ-2       | BJ-1       | W 20th Ave                       | Accelerated Maintenance | LF    | 391      | \$         | 464.81    |
| 255      | 8         | VCP      | BK-1       | B-49       | W 19th Pl                        | Accelerated Maintenance | LF    | 243      | \$         | 289.17    |
| 256      | 8         | VCP      | BK-2       | BK-1       | W 19th Pl                        | N/A                     | LF    | 368      | \$         | -         |
| 257      | 8         | VCP      | BK-3       | BK-2       | W 19th Pl                        | N/A                     | LF    | 121      | \$         | -         |
| 258      | 8         | VCP      | BK-4       | BK-3       | W 19th Pl                        | N/A                     | LF    | 163      | \$         | -         |
| 259      | 8         | VCP      | BK-5       | BK-4       | W 19th Pl                        | N/A                     | LF    | 385      | \$         | -         |
| 260      | 8         | VCP      | BK-6       | BK-5       | W 19th Pl                        | Root Cut                | LF    | 140      | \$         | 258.26    |
| 261      | 8         | VCP      | BKA-1      | BK-4       | Applewood Dr                     | N/A                     | LF    | 373      | \$         | -         |
| 262      | 8         | VCP      | BL-1       | B-52       | Ward Ct                          | N/A                     | LF    | 297      | \$         | -         |
| 263      | 8         | VCP      | BM-2       | BM-1       | Applewood Dr                     | N/A                     | LF    | 127      | \$         | -         |
| 264      | 8         | VCP      | BN-2       | BN-1       | Willow Ln                        | N/A                     | LF    | 329      | \$         | -         |
| 265      | 24        | VCP      | BO-1       | A-27A-1    | Easement                         | Accelerated Maintenance | LF    | 305      | \$         | 398.89    |
| 266      | 8         | VCP      | BO-1       | B-58A      | Youngfield St easement           | N/A                     | LF    | 100      | \$         | -         |
| 267      | 8         | VCP      | BO-2A      | BO-2       | W 16th Dr/Youngfield St easement | Accelerated Maintenance | LF    | 197      | \$         | 234.55    |
| 268      | 8         | VCP      | BO-2       | BO-1       | Youngfield St easement           | Accelerated Maintenance | LF    | 190      | \$         | 226.10    |
| 269      | 8         | VCP      | BO-5       | BO-4       | W 16th Dr                        | N/A                     | LF    | 157      | \$         | -         |
| 270      | 8         | VCP      | BO-7       | BO-6       | W 16th Dr                        | N/A                     | LF    | 125      | \$         | -         |
| 271      | 8         | VCP      | BO-9       | BO-8       | W 16th Dr                        | N/A                     | LF    | 179      | \$         | -         |
| 272      | 8         | VCP      | BO-10      | BO-9       | W 16th Dr                        | N/A                     | LF    | 228      | \$         | -         |
| 273      | 8         | VCP      | BO-12      | BO-11      | Alkire St                        | N/A                     | LF    | 339      | \$         | -         |
| 274      | 8         | VCP      | BOA-1-1    | BOA-1      | Zang St                          | N/A                     | LF    | 177      | \$         | -         |
| 275      | 8         | VCP      | BOA-1      | BOA-4      | Youngfield Ct                    | N/A                     | LF    | 215      | \$         | -         |
| 276      | 8         | VCP      | BOA-3-1    | BOA-3      | Yank Ct                          | N/A                     | LF    | 161      | \$         | -         |
| 277      | 8         | VCP      | BOA-3-2    | BOA-3-1    | Yank Ct                          | Accelerated Maintenance | LF    | 410      | \$         | 487.90    |
| 278      | 8         | VCP      | BOA-4      | BOA-2      | W 19th Ave                       | N/A                     | LF    | 241      | \$         | -         |
| 279      | 8         | VCP      | BOA-4-3    | BOA-4-2    | Zang St                          | N/A                     | LF    | 196      | \$         | -         |
| 280      | 8         | VCP      | BOA-4      | BOA-3      | Willow Ln                        | Accelerated Maintenance | LF    | 278      | \$         | 330.46    |
| 281      | 8         | VCP      | BOA-5-1    | BOA-5      | Zinnia St                        | Accelerated Maintenance | LF    | 296      | \$         | 352.00    |
| 282      | 8         | VCP      | BY-2       | BY-1       | Zang St                          | N/A                     | LF    | 377      | \$         | -         |
| 283      | 8         | VCP      | BY-3       | BY-2       | Zang St                          | N/A                     | LF    | 199      | \$         | -         |
| 284      | 8         | VCP      | BY-4       | BY-3       | Zang St                          | N/A                     | LF    | 164      | \$         | -         |
| 285      | 8         | VCP      | BY-5       | BY-4       | Zang St                          | N/A                     | LF    | 218      | \$         | -         |
| 286      | 8         | VCP      | BOA-5-3    | BOA-5-2    | Zinnia St                        | N/A                     | LF    | 278      | \$         | -         |
| 287      | 8         | VCP      | BOA-5      | BOA-4      | Willow Ln                        | N/A                     | LF    | 298      | \$         | -         |
| 288      | 12        | VCP      | BOA-6-5    | BOA-6      | Zinnia Ct                        | N/A                     | LF    | 298      | \$         | -         |
| 289      | 8         | VCP      | BOA-6-3-1  | BOA-6-3    | Alkire St                        | N/A                     | LF    | 204      | \$         | -         |
| 290      | 8         | VCP      | BOA-6-3-3  | BOA-6-3-2  | Alkire St                        | Root Cut                | LF    | 271      | \$         | 500.43    |
| 291      | 8         | VCP      | BOA-6-3    | BOA-6-2    | Zinnia Ct                        | Root Cut                | LF    | 92       | \$         | 169.46    |
| 292      | 8         | VCP      | BOA-6-4    | BOA-6-3    | W Alkire St                      | N/A                     | LF    | 273      | \$         | -         |
| 293      | 8         | VCP      | BOA-6-5    | BOA-6-4    | W Alkire St                      | N/A                     | LF    | 174      | \$         | -         |
| 294      | 8         | VCP      | BOA-6      | BOA-5      | Willow Ln                        | N/A                     | LF    | 279      | \$         | -         |
| 295      | 8         | VCP      | BOA-7      | BOA-6      | Willow Ln                        | N/A                     | LF    | 350      | \$         | -         |
| 296      | 8         | VCP      | BOA-8      | BOA-7      | Willow Way                       | N/A                     | LF    | 325      | \$         | -         |
| 297      | 8         | VCP      | BOA-9      | BOA-8      | Willow Way                       | N/A                     | LF    | 143      | \$         | -         |
| 298      | 8         | VCP      | BOB-1-1    | BOB-1      | Zinnia St                        | N/A                     | LF    | 161      | \$         | -         |
| 299      | 8         | VCP      | BOC-1      | BO-11      | Alkire St                        | N/A                     | LF    | 176      | \$         | -         |
| 300      | 8         | VCP      | BOD-2-1    | BOD-2      | Alkire Ct                        | N/A                     | LF    | 290      | \$         | -         |
| 301      | 8         | VCP      | BOD-2-2A-1 | BOD-2-2A   | Alkire Ct                        | N/A                     | LF    | 86       | \$         | -         |
| 302      | 8         | VCP      | BOD-2-2A   | BOD-2-2    | Alkire Ct                        | N/A                     | LF    | 119      | \$         | -         |
| 303      | 8         | VCP      | BOD-2-2C   | BOD-2-2B   | Winfield Pl                      | N/A                     | LF    | 199      | \$         | -         |
| 304      | 8         | VCP      | BOD-2-3    | BOD-2-2A-1 | Alkire Ct                        | N/A                     | LF    | 69       | \$         | -         |
| 305      | 8         | VCP      | BOD-2-4    | BOD-2-3    | Alkire Ct                        | N/A                     | LF    | 202      | \$         | -         |
| 306      | 8         | VCP      | BOD-2-5    | BOD-2-3    | Cole Blvd easement               | N/A                     | LF    | 228      | \$         | -         |
| 307      | 8         | VCP      | BOD-2-6    | BOD-2-5    | Cole Blvd easement               | N/A                     | LF    | 237      | \$         | -         |
| 308      | 8         | VCP      | BOD-2-7    | BOD-2-6    | Cole Blvd easement               | N/A                     | LF    | 312      | \$         | -         |
| 309      | 8         | VCP      | BOD-2-8    | BOD-2-7    | Cole Blvd                        | N/A                     | LF    | 142      | \$         | -         |
| 310      | 8         | VCP      | BOD-2-10   | BOD-2-9    | Cole Blvd                        | N/A                     | LF    | 357      | \$         | -         |
| 311      | 12        | VCP      | BOD-2      | BOD-1      | Willow Ln                        | N/A                     | LF    | 189      | \$         | -         |
| 312      | 8         | VCP      | BOD-4-2    | BOD-4-1    | N Arbutus St                     | N/A                     | LF    | 99       | \$         | -         |
| 313      | 8         | VCP      | BOD-4      | BOD-3      | Willow Ln                        | N/A                     | LF    | 131      | \$         | -         |
| 314      | 8         | VCP      | BOD-5-1    | BOD-5      | Arbutus Ct                       | N/A                     | LF    | 224      | \$         | -         |
| 315      | 8         | VCP      | BOD-5      | BOD-4      | Willow Ln                        | N/A                     | LF    | 159      | \$         | -         |
| 316      | 8         | VCP      | BOD-6      | BOD-5      | Willow Ln                        | N/A                     | LF    | 114      | \$         | -         |
| 317      | 8         | PVC      | BR-1       | B-75       | W Colfax Ave                     | N/A                     | LF    | 298      | \$         | -         |
| 318      | 8         | PVC      | BR-2-1     | BR-2       | Easement                         | N/A                     | LF    | 19       | \$         | -         |
| 319      | 8         | PVC      | BR-2-2     | BR-2-1     | Easement                         | N/A                     | LF    | 316      | \$         | -         |
| 320      | 8         | PVC      | BR-2       | BR-1       | W Colfax Ave                     | N/A                     | LF    | 227      | \$         | -         |
| 321      | 8         | VCP      | BR-3       | BR-2       | Orchard Rd                       | N/A                     | LF    | 383      | \$         | -         |
| 322      | 8         | VCP      | BR-5-1     | BR-5       | Wide Acres Rd                    | N/A                     | LF    | 31       | \$         | -         |
| 323      | 8         | VCP      | BR-5-2     | BR-5-1     | Wide Acres Rd                    | N/A                     | LF    | 297      | \$         | -         |
| 324      | 8         | VCP      | BR-5       | BR-4       | Orchard Rd                       | N/A                     | LF    | 352      | \$         | -         |
| 325      | 8         | VCP      | BR-6       | BR-5       | Wide Acres Rd                    | N/A                     | LF    | 315      | \$         | -         |
| 326      | 8         | VCP      | BR-7       | BR-6       | Wide Acres Rd                    | N/A                     | LF    | 335      | \$         | -         |
| 327      | 8         | VCP      | BRA-1      | P-11A-2    | W Colfax Ave easement            | Mineral Cleaning        | LF    | 126      | \$         | 233.84    |
| 328      | 8         | PVC      | BS-1       | B-77       | Easement                         | N/A                     | LF    | 254      | \$         | -         |
| 329      | 8         | PVC      | BS-2A-1    | B-76-2     | Meadowswet Rd                    | N/A                     | LF    | 362      | \$         | -         |
| 330      | 8         | VCP      | BS-2       | BS-1       | Easement                         | N/A                     | LF    | 403      | \$         | -         |
| 331      | 8         | VCP      | BT-1       | B-78       | Normandy Rd                      | Accelerated Maintenance | LF    | 397      | \$         | 472.31    |
| 332      | 8         | VCP      | BT-2       | BT-1       | Normandy Rd                      | N/A                     | LF    | 290      | \$         | -         |
| 333      | 8         | VCP      | BT-3       | BT-2       | Normandy Rd                      | N/A                     | LF    | 396      | \$         | -         |
| 334      | 8         | VCP      | BT-5       | BT-4       | Wide Acres Rd                    | Accelerated Maintenance | LF    | 297      | \$         | 353.43    |
| 335      | 8         | VCP      | BU-1       | B-79A      | W Kingsbury Ct                   | Root Cut                | LF    | 377      | \$         | 698.19    |
| 336      | 8         | VCP      | BU-2       | BU-1       | W Kingsbury Ct                   | N/A                     | LF    | 127      | \$         | -         |
| 337      | 8         | VCP      | BV-1       | B-81       | Overhill Rd                      | N/A                     | LF    | 328      | \$         | -         |
| 338      | 8         | VCP      | BV-2       | BV-1       | Overhill Rd                      | N/A                     | LF    | 134      | \$         | -         |
| 339      | 8         | VCP      | BV-3       | BV-2       | Overhill Rd                      | N/A                     | LF    | 209      | \$         | -         |
| 340      | 8         | VCP      | BV-4       | BV-3       | Overhill Rd                      | N/A                     | LF    | 128      | \$         | -         |
| 341      | 8         | VCP      | BW-1A-1    | BW-1A      | W 11th Pl easement               | N/A                     | LF    | 165      | \$         | -         |
| 342      | 8         | VCP      | BW-1A-2    | BW-1A-1    | W 11th Pl easement               | Root Cut                | LF    | 202      | \$         | 373.89    |
| 343      | 8         | VCP      | BW-1A-3    | BW-1A-2    | Xenophon St easement             | N/A                     | LF    | 166      | \$         | -         |
| 344      | 8         | VCP      | BW-1A-5    | BW-1A-4    | Xenophon St                      | N/A                     | LF    | 300      | \$         | -         |
| 345      | 8         | VCP      | BW-1A-6    | BW-1A-5    | Xenophon St                      | Mineral Cleaning        | LF    | 264      | \$         | 488.77    |
| 346      | 8         | VCP      | BW-1       | B-86       | Wide Acres Rd                    | Accelerated Maintenance | LF    | 314      | \$         | 373.42    |
| 347      | 8         | VCP      | BW-2       | BW-1A      | Youngfield St                    | N/A                     | LF    | 26       | \$         | -         |
| 348      | 8         | VCP      | BW-3       | BW-2       | Youngfield St                    | N/A                     | LF    | 399      | \$         | -         |
| 349      | 8         | VCP      | BW-4       | BW-3       | Youngfield St                    | N/A                     | LF    | 349      | \$         | -         |
| 350      | 8         | VCP      | BW-5       | BW-4       | Youngfield St                    | N/A                     | LF    | 274      | \$         | -         |
| 351      | 15        | VCP      | BX-1-1     | B-86A      | Yank St                          | N/A                     | LF    | 421      | \$         | -         |
| 352      | 8         | VCP      | BX-2-1     | B-86       | Yank St                          | N/A                     | LF    | 399      | \$         | -         |
| 353      | 15        | VCP      | BX-2       | BX-1-1     | Yank St                          | N/A                     | LF    | 374      | \$         | -         |
| 354      | 8         | VCP      | BX-3       | BX-2       | Yank St                          | N/A                     | LF    | 399      | \$         | -         |
| 355      | 15        | VCP      | BX-3-1     | BX-2-1     | Yank St                          | N/A                     | LF    | 371      | \$         | -         |
| 356      | 15        | VCP      | BX-4       | BX-3-1     | Yank St                          | Accelerated Maintenance | LF    | 186      | \$         | 220.75    |
| 357      | 8         | VCP      | BX-5       | BX-4       | Yank St                          | Accelerated Maintenance | LF    | 163      | \$         | 193.97    |
| 358      | 8         | VCP      | BX-6       | BX-5       | W 10th Ave                       | Accelerated Maintenance | LF    | 14       | \$         | 16.42     |
| 359      | 18        | VCP      | P-10-1     | P-9-1A     | Arbutus St                       | N/A                     | LF    | 119      | \$         | -         |

| Item No. | Size [in] | Material | USMH     | DSMH    | Location                            | Recommended Rehab          | Units | Quantity | Unit Price | Item Cost |
|----------|-----------|----------|----------|---------|-------------------------------------|----------------------------|-------|----------|------------|-----------|
| 360      | 18        | VCP      | P-2-1    | P-1-1   | W 15th Dr                           | N/A                        | LF    | 111      | \$         | -         |
| 361      | 18        | VCP      | P-2-1    | P-2-1   | W 15th Dr                           | N/A                        | LF    | 377      | \$         | -         |
| 362      | 18        | VCP      | P-7-1    | P-6-1   | Rosewood Dr                         | Accelerated Maintenance    | LF    | 338      | \$         | 401.63    |
| 363      | 15        | VCP      | P-8-1    | P-7-1   | W 15th Dr                           | Accelerated Maintenance    | LF    | 406      | \$         | 482.66    |
| 364      | 18        | VCP      | P-9-1    | P-8-1   | Arbutus St                          | Accelerated Maintenance    | LF    | 72       | \$         | 85.68     |
| 365      | 18        | VCP      | P-9-1A   | P-9-1   | Arbutus St                          | Accelerated Maintenance    | LF    | 15       | \$         | 18.33     |
| 366      | 8         | VCP      | DB-3     | DB-2    | Morningside Dr                      | N/A                        | LF    | 299      | \$         | -         |
| 367      | 8         | VCP      | J-1      | B-38    | Rosewood Dr easement                | Accelerated Maintenance    | LF    | 188      | \$         | 200.04    |
| 368      | 8         | VCP      | J-3      | J-2     | Rosewood Dr                         | N/A                        | LF    | 257      | \$         | -         |
| 369      | 8         | VCP      | J-4      | J-3     | Rosewood Dr                         | N/A                        | LF    | 141      | \$         | -         |
| 370      | 8         | VCP      | J-5      | J-4     | Rosewood Dr                         | N/A                        | LF    | 78       | \$         | -         |
| 371      | 8         | VCP      | J-6      | J-5     | Rosewood Dr                         | Accelerated Maintenance    | LF    | 261      | \$         | 310.23    |
| 372      | 8         | PVC      | J-7-1    | J-7     | Rosewood Dr                         | N/A                        | LF    | 46       | \$         | -         |
| 373      | 8         | PVC      | J-7-2    | J-7-1   | W 20th Ave                          | N/A                        | LF    | 123      | \$         | -         |
| 374      | 8         | PVC      | J-7-3    | J-7-2   | Yanor Ct                            | N/A                        | LF    | 176      | \$         | -         |
| 375      | 8         | VCP      | J-7      | J-6     | Rosewood Dr                         | Accelerated Maintenance    | LF    | 69       | \$         | 82.35     |
| 376      | 8         | VCP      | J-8      | J-7     | W 20th Ave easement                 | Mineral Cleaning           | LF    | 138      | \$         | 255.86    |
| 377      | 8         | VCP      | J-9      | J-8A    | W 20th Ave                          | N/A                        | LF    | 3        | \$         | -         |
| 378      | 8         | PVC      | J-10A-1  | J-10A   | Youngfield St                       | N/A                        | LF    | 117      | \$         | -         |
| 379      | 8         | PVC      | J-10A-2  | J-10A-1 | Youngfield St                       | N/A                        | LF    | 179      | \$         | -         |
| 380      | 8         | VCP      | J-10     | J-9     | W 20th Ave                          | N/A                        | LF    | 111      | \$         | -         |
| 381      | 8         | VCP      | J-10     | J-10A   | W 20th Ave/Youngfield St            | N/A                        | LF    | 88       | \$         | -         |
| 382      | 8         | VCP      | J-11     | J-10    | W 20th Ave                          | Accelerated Maintenance    | LF    | 207      | \$         | 246.69    |
| 383      | 8         | VCP      | J-12     | J-11    | Easement                            | N/A                        | LF    | 163      | \$         | -         |
| 384      | 8         | VCP      | J-13     | J-12    | Easement                            | N/A                        | LF    | 249      | \$         | -         |
| 385      | 8         | VCP      | J-14     | J-13    | Easement                            | N/A                        | LF    | 202      | \$         | -         |
| 386      | 8         | VCP      | J-15     | J-14    | Easement                            | N/A                        | LF    | 51       | \$         | -         |
| 387      | 8         | VCP      | J-16     | J-15    | Easement                            | Root Cut                   | LF    | 199      | \$         | 368.71    |
| 388      | 8         | VCP      | J-17     | J-16    | Easement                            | N/A                        | LF    | 207      | \$         | -         |
| 389      | 8         | VCP      | JA-1     | J-1     | Willow Ln                           | N/A                        | LF    | 403      | \$         | -         |
| 390      | 8         | VCP      | JB-1     | J-1     | Willow Ln                           | Mineral Cleaning           | LF    | 114      | \$         | 210.16    |
| 391      | 8         | VCP      | JB-2     | JB-1    | Willow Ln                           | Root Cut                   | LF    | 242      | \$         | 447.89    |
| 392      | 8         | VCP      | JB-3     | JB-2    | Willow Ln                           | N/A                        | LF    | 365      | \$         | -         |
| 393      | 8         | VCP      | JB-4     | JB-3    | W 23rd Ave                          | N/A                        | LF    | 349      | \$         | -         |
| 394      | 8         | VCP      | JB-5     | JB-4    | W 23rd Ave                          | N/A                        | LF    | 116      | \$         | -         |
| 395      | 8         | VCP      | JB-6     | JB-5    | Youngfield St                       | N/A                        | LF    | 99       | \$         | -         |
| 396      | 8         | VCP      | JB-12    | JB-11   | Beech Ct                            | Accelerated Maintenance    | LF    | 243      | \$         | 288.69    |
| 397      | 8         | VCP      | JB-13    | JB-12   | Beech Ct                            | N/A                        | LF    | 288      | \$         | -         |
| 398      | 8         | VCP      | JB-14    | JB-13   | Beech Ct                            | N/A                        | LF    | 277      | \$         | -         |
| 399      | 8         | VCP      | JB-15    | JB-14   | Beech Ct                            | N/A                        | LF    | 278      | \$         | -         |
| 400      | 8         | VCP      | JB-16    | JB-15   | Beech Ct                            | Accelerated Maintenance    | LF    | 279      | \$         | 332.49    |
| 401      | 8         | VCP      | JB-17A   | JB-17   | W 20th Ave                          | N/A                        | LF    | 271      | \$         | -         |
| 402      | 8         | VCP      | JB-17    | JB-16   | Beech Ct                            | N/A                        | LF    | 63       | \$         | -         |
| 403      | 8         | VCP      | JB-18    | JB-17A  | W 20th Ave                          | N/A                        | LF    | 126      | \$         | -         |
| 404      | 8         | VCP      | JBA-1    | JB-6    | Youngfield St                       | N/A                        | LF    | 372      | \$         | -         |
| 405      | 8         | VCP      | JBA-2    | JBA-1   | Youngfield St                       | N/A                        | LF    | 368      | \$         | -         |
| 406      | 8         | VCP      | JBA-5    | JBA-4   | W 21st Ave                          | N/A                        | LF    | 400      | \$         | -         |
| 407      | 8         | VCP      | JBA-6    | JBA-5   | W 21st Ave                          | N/A                        | LF    | 198      | \$         | -         |
| 408      | 8         | VCP      | JBA-7    | JBA-6   | Alkire St                           | N/A                        | LF    | 81       | \$         | -         |
| 409      | 8         | VCP      | JBA-8    | JBA-7   | Alkire St                           | N/A                        | LF    | 81       | \$         | -         |
| 410      | 8         | VCP      | JBA-9    | JBA-8   | Alkire St                           | Root Cut                   | LF    | 193      | \$         | 356.31    |
| 411      | 8         | VCP      | JBB-1    | JB-7    | Yellowstone St                      | Root Cut                   | LF    | 69       | \$         | 128.02    |
| 412      | 8         | VCP      | JBB-2    | JBB-1   | Yellowstone St                      | Accelerated Maintenance    | LF    | 316      | \$         | 375.56    |
| 413      | 8         | VCP      | JBB-3    | JBB-2   | Yellowstone St                      | N/A                        | LF    | 25       | \$         | -         |
| 414      | 8         | VCP      | JBC-1    | JB-8    | Zang St                             | Accelerated Maintenance    | LF    | 79       | \$         | 94.49     |
| 415      | 8         | VCP      | JBC-3    | JBC-2   | Zang St                             | N/A                        | LF    | 237      | \$         | -         |
| 416      | 8         | VCP      | JBD-1    | JB-9    | Zinnia St                           | Root Cut                   | LF    | 91       | \$         | 168.54    |
| 417      | 8         | VCP      | JBD-2    | JBD-1   | Zinnia St                           | N/A                        | LF    | 312      | \$         | -         |
| 418      | 8         | VCP      | JBD-3    | JBD-2   | Zinnia St                           | N/A                        | LF    | 245      | \$         | -         |
| 419      | 8         | VCP      | JBE-1    | JB-12   | Zinnia Way                          | N/A                        | LF    | 211      | \$         | -         |
| 420      | 8         | VCP      | JBE-2    | JBE-1   | Zinnia Way                          | N/A                        | LF    | 144      | \$         | -         |
| 421      | 8         | VCP      | JBE-3    | JBE-2   | Zinnia Way                          | N/A                        | LF    | 146      | \$         | -         |
| 422      | 8         | VCP      | JBE-4    | JBE-3   | Zinnia Way                          | Root Cut                   | LF    | 96       | \$         | 178.16    |
| 423      | 8         | VCP      | JBF-1    | JB-13   | Alkire St                           | N/A                        | LF    | 184      | \$         | -         |
| 424      | 8         | VCP      | JBF-2    | JBF-1   | Alkire St                           | N/A                        | LF    | 64       | \$         | -         |
| 425      | 8         | VCP      | JBF-3    | JBF-2   | Alkire St                           | N/A                        | LF    | 69       | \$         | -         |
| 426      | 8         | VCP      | JC-1-1   | JC-1    | Myrtlewood Ln                       | N/A                        | LF    | 244      | \$         | -         |
| 427      | 8         | VCP      | JC-1     | J-3     | Myrtlewood Ln                       | Accelerated Maintenance    | LF    | 188      | \$         | 223.13    |
| 428      | 8         | VCP      | JC-3     | JC-2    | Myrtlewood Ln                       | N/A                        | LF    | 130      | \$         | -         |
| 429      | 8         | VCP      | JC-4     | JC-3    | Myrtlewood Ln                       | N/A                        | LF    | 99       | \$         | -         |
| 430      | 8         | VCP      | JD-1     | J-4     | Applewood Dr                        | N/A                        | LF    | 140      | \$         | -         |
| 431      | 8         | VCP      | JD-2     | JD-1    | Applewood Dr                        | Root Cut                   | LF    | 165      | \$         | 305.99    |
| 432      | 8         | VCP      | JD-3     | JD-2    | Applewood Dr                        | Root Cut                   | LF    | 111      | \$         | 204.43    |
| 433      | 8         | VCP      | JD-4     | JD-3    | Applewood Dr                        | N/A                        | LF    | 101      | \$         | -         |
| 434      | 8         | VCP      | JE-1     | J-5     | Rosewood Dr easement                | Accelerated Maintenance    | LF    | 159      | \$         | 188.73    |
| 435      | 8         | PVC      | LAMPHOLE | J-7-2   | W 20th Ave                          | N/A                        | LF    | 15       | \$         | -         |
| 436      | 12        | VCP      | P-3      | P-3     | W 15th Dr                           | Accelerated Maintenance    | LF    | 186      | \$         | 221.58    |
| 437      | 12        | VCP      | P-4      | P-3A    | W 15th Dr                           | N/A                        | LF    | 75       | \$         | -         |
| 438      | 12        | VCP      | P-5      | P-4     | W 15th Dr                           | Cut intruding tap at 96.3' | EA    | 1        | \$         | 2,500.00  |
| 439      | 12        | VCP      | P-6      | P-5     | W 15th Dr                           | N/A                        | LF    | 226      | \$         | -         |
| 440      | 8         | VCP      | P-7-2A   | BO-11   | W 16th Dr                           | N/A                        | LF    | 296      | \$         | -         |
| 441      | 8         | VCP      | P-7-1-LH | P-7-2A  | Alkire St                           | N/A                        | LF    | 73       | \$         | -         |
| 442      | 8         | VCP      | P-7-3    | P-7-2   | W 16th Dr                           | N/A                        | LF    | 328      | \$         | -         |
| 443      | 8         | VCP      | P-7-4    | P-7-3   | W 16th Dr                           | N/A                        | LF    | 273      | \$         | -         |
| 444      | 6         | PVC      | P-9-1B   | P-9-1A  | Arbutus St easement                 | N/A                        | LF    | 4        | \$         | -         |
| 445      | 10        | VCP      | P-10     | P-9     | Arbutus St                          | Accelerated Maintenance    | LF    | 121      | \$         | 143.99    |
| 446      | 8         | PVC      | P-11A-1  | P-11A   | W Colfax Ave easement               | N/A                        | LF    | 31       | \$         | -         |
| 447      | 8         | PVC      | P-11A-2  | P-11A-1 | W Colfax Ave easement               | N/A                        | LF    | 155      | \$         | -         |
| 448      | 10        | VCP      | P-11     | P-10    | Arbutus St                          | N/A                        | LF    | 202      | \$         | -         |
| 449      | 10        | VCP      | P-12     | P-11    | Orchard Dr                          | Mineral Cleaning           | LF    | 124      | \$         | 228.66    |
| 450      | 10        | VCP      | P-14     | P-13    | Orchard Dr                          | N/A                        | LF    | 228      | \$         | -         |
| 451      | 10        | VCP      | P-15     | P-14    | Easement                            | N/A                        | LF    | 146      | \$         | -         |
| 452      | 10        | VCP      | P-16     | P-15    | Easement                            | Accelerated Maintenance    | LF    | 333      | \$         | 395.68    |
| 453      | 10        | VCP      | P-17     | P-16    | Easement                            | N/A                        | LF    | 334      | \$         | -         |
| 454      | 10        | VCP      | P-18     | P-17    | Easement                            | N/A                        | LF    | 343      | \$         | -         |
| 455      | 10        | VCP      | P-19     | P-18    | Easement                            | N/A                        | LF    | 382      | \$         | -         |
| 456      | 8         | VCP      | P-20     | P-19    | Easement                            | N/A                        | LF    | 218      | \$         | -         |
| 457      | 8         | PVC      | SC-2-1   | SC-2    | Alkire St                           | N/A                        | LF    | 320      | \$         | -         |
| 458      | 8         | PVC      | SC-2A    | SC-2    | W 9th Pl                            | N/A                        | LF    | 170      | \$         | -         |
| 459      | 8         | PVC      | SC-2B    | SC-2A   | Alkire Ct                           | N/A                        | LF    | 212      | \$         | -         |
| 460      | 8         | PVC      | SC-3     | SC-1    | Alkire St                           | N/A                        | LF    | 48       | \$         | -         |
| 461      | 8         | PVC      | SC-3     | SC-2-1  | Alkire St                           | N/A                        | LF    | 320      | \$         | -         |
| 462      | 8         | VCP      | BX-4     | BX-3    | Yank St                             | N/A                        | LF    | 196      | \$         | -         |
| 463      | 8         | PVC      | B-62-2   | B-62-1  | Youngfield St                       | N/A                        | LF    | 70       | \$         | -         |
| 464      | 15        | VCP      | B-86A    | B-84    | Wide Acres Rd                       | N/A                        | LF    | 150      | \$         | -         |
| 465      | 8         | VCP      | BOD-2-2  | BOD-2-1 | Alkire Ct                           | N/A                        | LF    | 148      | \$         | -         |
| 466      | 8         | VCP      | BS-2A    | BS-2    | Easement                            | Mineral Cleaning           | LF    | 27       | \$         | 49.95     |
| 467      | 12        | PVC      | P-1      | P-1-1   | Youngfield St                       | N/A                        | LF    | 1        | \$         | -         |
| 468      | 8         | VCP      | P-7-2    | P-7-2A  | W 16th Dr                           | N/A                        | LF    | 2        | \$         | -         |
| 469      | 8         | VCP      | P-11     | P-11-1  | Orchard Dr                          | N/A                        | LF    | 2        | \$         | -         |
| 470      | 8         | VCP      | B-62-1   | B-62    | Youngfield St/Winfield Cir easement | Accelerated Maintenance    | LF    | 211      | \$         | 250.73    |

|          |  |  |  |  |  |  |  |  |             |                                     |                  |
|----------|--|--|--|--|--|--|--|--|-------------|-------------------------------------|------------------|
| Remarks: |  |  |  |  |  |  |  |  |             | Cost of Items:                      | \$ 46,019,476.00 |
|          |  |  |  |  |  |  |  |  |             | 20% Contingencies:                  | \$ 9,203.90      |
|          |  |  |  |  |  |  |  |  |             | Subtotal:                           | \$ 55,223.37     |
|          |  |  |  |  |  |  |  |  |             | 10% Const. Engineering/Observation: | \$ 5,522.34      |
|          |  |  |  |  |  |  |  |  | Total Cost: | \$ 60,745.71                        |                  |

**Project:** Northwest Lakewood 2022 CIP  
**Location:** Lakewood, Golden, Wheat Ridge  
**Subject:** EOPC - Category 2 - Medium Priority  
**Client:** Northwest Lakewood Sanitation District

**Date:** 22-Jun-22  
**Job No.:** 17.0638.C.10  
**Prep. By:** AG  
**Ckd. By:** BW

**Note:** Any opinions of price, probable project costs or construction costs rendered by MARTIN/MARTIN represent its best judgment and are furnished for general guidance. MARTIN/MARTIN makes no warranty of guarantee, either expressed or implied as to the accuracy of such opinions as compared to bid or actual cost.

| Item No. | Size (in) | Material | USMH         | DSMH        | Location              | Recommended Rehab                     | Units | Quantity | Unit Price | Item Cost              |
|----------|-----------|----------|--------------|-------------|-----------------------|---------------------------------------|-------|----------|------------|------------------------|
| 1        | 12        | VCP      | A-36B        | A-36        | W 32nd Ave            | Mineral Cleaning                      | LF    | 137      | \$         | 1.85 \$ 253.45         |
| 2        | 8         | VCP      | A-47A-14     | A-47A-13    | W 26th Ave            | CIPP                                  | LF    | 150      | \$         | 75.00 \$ 11,250.00     |
| 3        | 8         | VCP      | A-56A-4      | A-56A-3     | Skyline Dr            | Accelerated Maintenance               | LF    | 264      | \$         | 1.19 \$ 314.16         |
| 4        | 8         | VCP      | AB-1         | A-31        | Robb Cir              | Root Cut                              | LF    | 80       | \$         | 1.85 \$ 148.00         |
| 5        | 8         | VCP      | AB-2         | AB-1        | Robb Cir              | Root Cut                              | LF    | 230      | \$         | 1.85 \$ 425.50         |
| 6        | 8         | VCP      | AB-4         | AB-3        | Robb Cir              | Root Cut                              | LF    | 175      | \$         | 1.85 \$ 323.75         |
| 7        | 8         | VCP      | AB-5         | AB-4        | Robb Cir              | Mineral Cleaning                      | LF    | 170      | \$         | 1.85 \$ 314.50         |
| 8        | 8         | VCP      | AB-10-1      | AB-10       | Simms St              | Mineral Cleaning                      | LF    | 160      | \$         | 1.85 \$ 296.00         |
| 9        | 8         | VCP      | AB-10-6-4A   | AB-10-6-3A  | Taft Ct               | Root Cut, Cut intruding tap at 175.6' | LF    | 205      | \$         | 1.85 \$ 2,879.25       |
| 10       | 8         | VCP      | AB-10-6      | AB-10-5     | Easement              | Accelerated Maintenance               | LF    | 175      | \$         | 1.19 \$ 208.25         |
| 11       | 8         | VCP      | AB-11-1A     | AB-11       | W 28th Ave            | Accelerated Maintenance               | LF    | 175      | \$         | 1.19 \$ 208.25         |
| 12       | 8         | VCP      | ACA-3        | ACA-2       | Simms St              | Accelerated Maintenance               | LF    | 290      | \$         | 1.19 \$ 345.10         |
| 13       | 8         | VCP      | ACC-2        | ACC-1       | W 30th Pl             | Accelerated Maintenance               | LF    | 225      | \$         | 1.19 \$ 267.75         |
| 14       | 8         | PVC      | ACE-1        | AC-3        | Tabor Dr              | Root Cut                              | LF    | 114      | \$         | 1.85 \$ 210.90         |
| 15       | 8         | VCP      | AD-2         | AD-1        | Routt Cir             | Root Cut                              | LF    | 225      | \$         | 1.85 \$ 416.25         |
| 16       | 8         | VCP      | AD-3         | AD-2        | Routt Cir             | Mineral Cleaning                      | LF    | 125      | \$         | 1.85 \$ 231.25         |
| 17       | 8         | VCP      | AD-4         | AD-3        | Routt Cir             | CIPP                                  | LF    | 125      | \$         | 75.00 \$ 9,375.00      |
| 18       | 8         | VCP      | AD-6-2       | AD-6-1      | W 29th Pl             | Root Cut, CIPP                        | LF    | 100      | \$         | 76.85 \$ 7,685.00      |
| 19       | 8         | VCP      | B-11R-7A-5   | B-11R-7A-4A | Applewood Knolls Dr   | Accelerated Maintenance               | LF    | 66       | \$         | 1.19 \$ 78.54          |
| 20       | 12        | VCP      | B-46         | B-45        | Willow Ln             | Accelerated Maintenance               | LF    | 87       | \$         | 1.19 \$ 103.53         |
| 21       | 8         | PVC      | B-62         | B-61-1      | Winfield Cir easement | Accelerated Maintenance               | LF    | 33       | \$         | 1.19 \$ 39.27          |
| 22       | 8         | VCP      | BF-9-1       | BF-9        | Ward Rd               | Root Cut                              | LF    | 265      | \$         | 1.85 \$ 490.25         |
| 23       | 8         | VCP      | BF-16A-2     | BF-16A-1    | Youngfield Service Rd | Root Cut                              | LF    | 245      | \$         | 1.85 \$ 453.25         |
| 24       | 12        | VCP      | BF-17A       | BF-17       | Easement              | Mineral Cleaning                      | LF    | 164      | \$         | 1.85 \$ 303.40         |
| 25       | 8         | VCP      | BF-18-3-LH   | BF-18-3     | W 33rd Pl             | Accelerated Maintenance               | LF    | 210      | \$         | 1.19 \$ 249.90         |
| 26       | 12        | VCP      | BF-18        | BF-17A      | W 33rd Ave            | Accelerated Maintenance               | LF    | 250      | \$         | 1.19 \$ 297.50         |
| 27       | 12        | VCP      | BF-19        | BF-18       | Alkire Ct             | Mineral Cleaning                      | LF    | 300      | \$         | 1.85 \$ 555.00         |
| 28       | 12        | VCP      | BF-20        | BF-19       | Alkire Ct             | Mineral Cleaning                      | LF    | 375      | \$         | 1.85 \$ 693.75         |
| 29       | 12        | VCP      | BF-21        | BF-20       | Easement              | Mineral Cleaning                      | LF    | 155      | \$         | 1.85 \$ 286.75         |
| 30       | 8         | VCP      | BG-3A-LH     | BG-3A       | Urban Ct              | Mineral Cleaning                      | LF    | 275      | \$         | 1.85 \$ 508.75         |
| 31       | 8         | VCP      | BG-5-1       | BG-5        | Vivian Ct             | Mineral Cleaning                      | LF    | 200      | \$         | 1.85 \$ 370.00         |
| 32       | 8         | VCP      | BH-1-9-2-6-1 | BH-1-9-2-6A | Easement              | Accelerated Maintenance               | LF    | 150      | \$         | 1.19 \$ 178.50         |
| 33       | 8         | VCP      | BH-1-9-2-6A  | BH-1-9-2-6  | Easement              | Accelerated Maintenance               | LF    | 20       | \$         | 1.19 \$ 23.80          |
| 34       | 8         | VCP      | C-3B-7       | C-3B-6A     | Easement              | CIPP                                  | LF    | 190      | \$         | 75.00 \$ 14,250.00     |
| 35       | 8         | VCP      | C-6-5        | C-6-4       | W 27th Ave            | CIPP                                  | LF    | 325      | \$         | 75.00 \$ 24,375.00     |
| 36       | 6         | VCP      | C-8A-2       | C-8A-1      | Quail St              | Accelerated Maintenance               | LF    | 142      | \$         | 1.19 \$ 168.98         |
| 37       | 6         | VCP      | C-8A-3       | C-8A-2      | Quail St              | Accelerated Maintenance               | LF    | 75       | \$         | 1.19 \$ 89.25          |
| 38       | 8         | VCP      | CG-1         | C-14AD      | Tabor St              | Accelerated Maintenance               | LF    | 200      | \$         | 1.19 \$ 238.00         |
| 39       | 8         | VCP      | CGA-5        | CGA-4       | W 24th Pl Cir         | Accelerated Maintenance               | LF    | 130      | \$         | 1.19 \$ 154.70         |
| 40       | 8         | VCP      | GD-2         | GD-1        | Miller St             | Root Cut                              | LF    | 350      | \$         | 1.85 \$ 647.50         |
| 41       | 8         | VCP      | P-1-1        | B-62-B      | Youngfield St         | Mineral Cleaning                      | LF    | 81       | \$         | 1.85 \$ 149.85         |
| 42       | 8         | VCP      | Z-4          | Z-3         | Alkire St             | Mineral Cleaning                      | LF    | 220      | \$         | 1.85 \$ 407.00         |
| 43       | 8         | PVC      | Z-7-1        | Z-7         | Alkire St             | Root Cut                              | LF    | 295      | \$         | 1.85 \$ 545.75         |
| 44       | 8         | VCP      | Z-7          | Z-6         | Alkire St             | Mineral Cleaning                      | LF    | 400      | \$         | 1.85 \$ 740.00         |
| 45       | 8         | VCP      | Z-8          | Z-7         | W 28th Ave            | Accelerated Maintenance               | LF    | 290      | \$         | 1.19 \$ 345.10         |
| 46       | 8         | VCP      | Z-14         | Z-13        | W 25th Ave            | Root Cut                              | LF    | 214      | \$         | 1.85 \$ 395.90         |
| 47       | 8         | VCP      | Z-20         | Z-19        | W 22nd Pl             | Root Cut                              | LF    | 232      | \$         | 1.85 \$ 429.20         |
| 48       | 8         | VCP      | ZC-13-2      | ZC-13-1     | Braun Dr              | Mineral Cleaning                      | LF    | 318      | \$         | 1.85 \$ 588.30         |
| 49       | 8         | VCP      | ZC-14        | ZC-13       | Coors Dr              | Root Cut                              | LF    | 263      | \$         | 1.85 \$ 486.55         |
| 50       | 8         | VCP      | ZD-3-5       | ZD-3-4      | W 23rd Pl             | 10' Point Repair at 85'-95'           | LS    | 4        | \$         | 44,000.00 \$ 44,000.00 |
| 51       | 8         | VCP      | ZD-5         | ZD-4        | W 26th Ave            | Mineral Cleaning                      | LF    | 270      | \$         | 1.85 \$ 499.50         |
| 52       | 8         | VCP      | AB-10-9-6    | AB-10-9-5   | Taft St               | Root Cut                              | LF    | 200      | \$         | 1.85 \$ 370.00         |
| 53       | 8         | VCP      | B-2A-A       | B-2A        | Easement              | Root Cut                              | LF    | 225      | \$         | 1.85 \$ 416.25         |
| 54       | 8         | VCP      | BE-2         | BE-1        | Union St              | Root Cut                              | LF    | 285      | \$         | 1.85 \$ 526.25         |
| 55       | 8         | VCP      | BG-2A-LH     | BG-2A       | Urban St              | Root Cut                              | LF    | 265      | \$         | 1.85 \$ 491.25         |
| 56       | 8         | VCP      | BG-6-1       | BG-6        | Ward Rd               | Root Cut                              | LF    | 350      | \$         | 1.85 \$ 647.50         |
| 57       | 8         | PVC      | C-1A-4.5     | C-1A-4.4    | W 30th Ave            | Accelerated Maintenance               | LF    | 130      | \$         | 1.19 \$ 154.70         |
| 58       | 8         | VCP      | Z-16         | Z-15        | W 22nd Pl             | Root Cut                              | LF    | 270      | \$         | 1.85 \$ 499.50         |
| 59       | 8         | VCP      | ZD-1         | Z-9         | W 26th Ave            | Accelerated Maintenance               | LF    | 265      | \$         | 1.19 \$ 315.35         |
| 60       | 8         | VCP      | ZD-3-2       | ZD-3-1      | W 23rd Pl             | Root Cut                              | LF    | 208      | \$         | 1.85 \$ 384.80         |
| 61       | 8         | VCP      | ZD-3-4       | ZD-3-3      | W 23rd Pl             | Accelerated Maintenance               | LF    | 312      | \$         | 1.19 \$ 371.28         |
| 62       | 8         | VCP      | ZD-4-1       | ZD-4        | W 24th Pl             | Mineral Cleaning                      | LF    | 400      | \$         | 1.85 \$ 740.00         |
| 63       | 8         | VCP      | ZC-8-2       | ZC-8-1      | W 21st Ave            | Mineral Cleaning                      | LF    | 88       | \$         | 1.85 \$ 162.80         |
| 64       | 8         | VCP      | A-34A-2      | A-34A-1     | Easement              | Mineral Cleaning                      | LF    | 295      | \$         | 1.85 \$ 545.75         |
| 65       | 8         | VCP      | AB-10-4      | AB-10-3     | W 28th Pl             | Mineral Cleaning                      | LF    | 275      | \$         | 1.85 \$ 508.75         |
| 66       | 8         | VCP      | AB-10-10     | AB-10-9     | Applewood Knolls Dr   | Root Cut                              | LF    | 260      | \$         | 1.85 \$ 481.00         |
| 67       | 8         | VCP      | AB-10-9-1    | AB-10-9     | Easement              | Root Cut                              | LF    | 262      | \$         | 1.85 \$ 484.70         |
| 68       | 8         | VCP      | ACD-4        | ACD-3       | W 29th Pl             | Mineral Cleaning                      | LF    | 200      | \$         | 1.85 \$ 370.00         |
| 69       | 8         | VCP      | C-3B-6       | C-3B-5      | Easement              | Mineral Cleaning                      | LF    | 122      | \$         | 1.85 \$ 225.70         |
| 70       | 8         | VCP      | Z-21-1       | Z-21        | W 22nd Ave            | Mineral Cleaning                      | LF    | 70       | \$         | 1.85 \$ 129.50         |
| 71       | 8         | VCP      | Z-21-2       | Z-21-1      | W 22nd Ave            | Mineral Cleaning                      | LF    | 127      | \$         | 1.85 \$ 234.95         |
| 72       | 8         | VCP      | Z-21-3       | Z-21-2      | W 22nd Ave            | Root Cut                              | LF    | 386      | \$         | 1.85 \$ 714.10         |
| 73       | 8         | VCP      | ZC-1         | Z-8         | Braun Dr              | Mineral Cleaning                      | LF    | 298      | \$         | 1.85 \$ 440.30         |
| 74       | 8         | VCP      | ZC-13-1      | ZC-13       | Braun Dr              | Mineral Cleaning                      | LF    | 318      | \$         | 1.85 \$ 588.30         |
| 75       | 8         | VCP      | ZC-15-1      | ZC-15       | W 20th Pl             | Accelerated Maintenance               | LF    | 70       | \$         | 1.19 \$ 83.30          |
| 76       | 8         | VCP      | ZC-15-2      | ZC-15-1     | W 20th Pl             | Mineral Cleaning                      | LF    | 136      | \$         | 1.85 \$ 251.60         |
| 77       | 8         | VCP      | ZC-15        | ZC-14       | Coors Dr              | Mineral Cleaning                      | LF    | 73       | \$         | 1.85 \$ 135.05         |
| 78       | 8         | VCP      | ZD-3         | ZD-2        | W 26th Ave            | Root Cut                              | LF    | 270      | \$         | 1.85 \$ 499.50         |
| 79       | 8         | VCP      | ZJ-2-1       | ZJ-2        | W 23rd Ave            | Mineral Cleaning                      | LF    | 82       | \$         | 1.85 \$ 151.70         |
| 80       | 8         | VCP      | AB-13-2      | AB-13-1     | Easement              | CIPP                                  | LF    | 203      | \$         | 75.00 \$ 15,225.00     |
| 81       | 24        | VCP      | B-9-1        | B-8-1       | Vivian Dr             | Accelerated Maintenance               | LF    | 265      | \$         | 1.19 \$ 315.35         |
| 82       | 18        | CI       | B-13-1       | B-12-1      | W 32nd Ave            | Accelerated Maintenance               | LF    | 264      | \$         | 1.19 \$ 314.16         |
| 83       | 12        | VCP      | B-15A-1      | B-15A       | Wright St             | Accelerated Maintenance               | LF    | 300      | \$         | 1.19 \$ 357.00         |
| 84       | 18        | VCP      | B-17-1       | B-16-1      | W 31st Ave            | Accelerated Maintenance               | LF    | 390      | \$         | 1.19 \$ 464.10         |
| 85       | 8         | PVC      | B-18-2N      | B-18-1N     | Xenon St              | Accelerated Maintenance               | LF    | 230      | \$         | 1.19 \$ 273.70         |
| 86       | 12        | VCP      | B-19         | B-18        | Xenon St              | Accelerated Maintenance               | LF    | 400      | \$         | 1.19 \$ 476.00         |
| 87       | 18        | PVC      | B-20-1       | B-19-1      | Xenon St              | Accelerated Maintenance               | LF    | 265      | \$         | 1.19 \$ 315.35         |
| 88       | 12        | VCP      | B-22         | B-21        | Easement              | Accelerated Maintenance               | LF    | 400      | \$         | 1.19 \$ 476.00         |
| 89       | 8         | VCP      | B-26-2-1-A-A | B-26-2-1-A  | Youngfield St         | Accelerated Maintenance               | LF    | 155      | \$         | 1.19 \$ 184.45         |
| 90       | 8         | VCP      | B-26-2-1-B   | B-26-2-1-A  | W 24th Pl             | CIPP                                  | LF    | 375      | \$         | 75.00 \$ 28,125.00     |
| 91       | 8         | VCP      | B-26-2-4     | B-26-2-3    | W 26th Ave            | Root Cut                              | LF    | 300      | \$         | 1.85 \$ 555.00         |
| 92       | 8         | VCP      | B-26-2-5     | B-26-2-4    | W 26th Ave            | Accelerated Maintenance               | LF    | 214      | \$         | 1.19 \$ 254.66         |
| 93       | 12        | VCP      | B-28         | B-27        | Willow Ln easement    | Mineral Cleaning                      | LF    | 338      | \$         | 1.85 \$ 625.30         |
| 94       | 12        | VCP      | B-29         | B-28        | Willow Ln easement    | Accelerated Maintenance               | LF    | 50       | \$         | 1.19 \$ 59.50          |
| 95       | 12        | VCP      | B-30         | B-29        | Willow Ln easement    | Accelerated Maintenance               | LF    | 125      | \$         | 1.19 \$ 148.75         |
| 96       | 12        | VCP      | B-31         | B-30        | Willow Ln easement    | Mineral Cleaning                      | LF    | 165      | \$         | 1.85 \$ 305.25         |
| 97       | 12        | VCP      | B-33         | B-32        | Willow Ln easement    | Mineral Cleaning                      | LF    | 115      | \$         | 1.85 \$ 212.75         |
| 98       | 12        | VCP      | B-34         | B-33        | Willow Ln easement    | Mineral Cleaning                      | LF    | 200      | \$         | 1.85 \$ 370.00         |
| 99       | 12        | VCP      | B-35         | B-34        | Willow Ln easement    | Mineral Cleaning                      | LF    | 300      | \$         | 1.85 \$ 555.00         |
| 100      | 12        | VCP      | B-36         | B-35        | Willow Ln easement    | Mineral Cleaning                      | LF    | 178      | \$         | 1.85 \$ 329.30         |
| 101      | 12        | VCP      | B-44         | B-43        | Willow Ln             | Mineral Cleaning                      | LF    | 282      | \$         | 1.85 \$ 521.70         |
| 102      | 12        | VCP      | B-45         | B-44        | Willow Ln             | Mineral Cleaning                      | LF    | 150      | \$         | 1.85 \$ 277.50         |
| 103      | 8         | VCP      | B-67-1-2     | B-67-1-1    | Youngfield St         | Accelerated Maintenance               | LF    | 200      | \$         | 1.19 \$ 238.00         |
| 104      | 6         | PVC      | B-67-3       | B-67-2      | W 15th Pl             | Accelerated Maintenance               | LF    | 301      | \$         | 1.19 \$ 358.19         |
| 105      | 10        | CI       | B-74B        | B-74A       | W Calfax Ave          | Accelerated Maintenance               | LF    | 184      | \$         | 1.19 \$ 218.96         |
| 106      | 15        | VCP      | B-81A        | B-80A       | Overhill Rd           | Accelerated Maintenance               | LF    | 185      | \$         | 1.19 \$ 220.15         |
| 107      | 15        | VCP      | B-82A        | B-81A       | W 14th Pl             | Accelerated Maintenance               | LF    | 340      | \$         | 1.19 \$ 404.60         |
| 108      | 8         | VCP      | B-84         | B-83        | Yank St               | Accelerated Maintenance               | LF    | 237      | \$         | 1.19 \$ 282.03         |
| 109      | 8         | VCP      | B-86         | B-84        | Wide Acres Rd         | Accelerated Maintenance               | LF    | 151      | \$         | 1.19 \$ 179.69         |
| 110      | 8         | VCP      | B-89         | B-88        | Zinnia St             | Accelerated Maintenance               | LF    | 345      | \$         | 1.19 \$ 410.55         |
| 111      | 8         | VCP      | B-95         | B-94        | W 10th Ave            | Accelerated Maintenance               | LF    | 314      | \$         | 1.19 \$ 373.66         |
| 112      | 8         | VCP      | BE-1         | B-6A        | Union St              | Accelerated Maintenance               | LF    | 275      | \$         | 1.19 \$ 327.25         |

| Item No. | Size (in) | Material | USMH      | DSMH      | Location       | Recommended Rehab                                    | Units | Quantity | Unit Price  | Item Cost    |
|----------|-----------|----------|-----------|-----------|----------------|--|-------|----------|-------------|--------------|
| 113      | 12        | VCP      | BF-8      | BF-7      | W 34th Pl      | Accelerated Maintenance                              | LF    | 230      | \$ 1.19     | \$ 273.70    |
| 114      | 12        | VCP      | BF-9      | BF-8      | Ward Rd        | Accelerated Maintenance                              | LF    | 78       | \$ 1.19     | \$ 92.82     |
| 115      | 8         | VCP      | BM-1      | B-55      | Applewood Dr   | Accelerated Maintenance                              | LF    | 288      | \$ 1.19     | \$ 342.72    |
| 116      | 8         | VCP      | BN-1      | B-56-1-D  | Willow Ln      | Accelerated Maintenance                              | LF    | 200      | \$ 1.19     | \$ 238.00    |
| 117      | 8         | VCP      | BO-4      | BO-3      | W 16th Dr      | Accelerated Maintenance                              | LF    | 200      | \$ 1.19     | \$ 238.00    |
| 118      | 8         | VCP      | BO-8      | BO-7      | W 16th Dr      | Accelerated Maintenance                              | LF    | 400      | \$ 1.19     | \$ 476.00    |
| 119      | 8         | PVC      | BO-13     | BO-12     | Alkire St      | Accelerated Maintenance                              | LF    | 275      | \$ 1.19     | \$ 327.25    |
| 120      | 8         | VCP      | BOA-2     | BOA-1     | Youngfield Ct  | CIPP   | LF    | 404      | \$ 75.00    | \$ 30,300.00 |
| 121      | 8         | VCP      | BOA-3-3   | BOA-3-2   | Yank Ct        | Root Cut   | LF    | 191      | \$ 1.85     | \$ 353.35    |
| 122      | 8         | VCP      | BOA-4-1   | BOA-4     | Zang St        | Accelerated Maintenance                              | LF    | 245      | \$ 1.19     | \$ 291.55    |
| 123      | 8         | VCP      | BOA-4-2   | BOA-4-1   | Zang St        | Accelerated Maintenance                              | LF    | 400      | \$ 1.19     | \$ 476.00    |
| 124      | 8         | VCP      | BOA-4-4   | BOA-4-3   | Zang St        | Cut intruding tap at 84.5'                           | EA    | 1        | \$ 5,000.00 | \$ 5,000.00  |
| 125      | 8         | VCP      | BOA-5-2   | BOA-5-1   | Zinnia St      | CIPP   | LF    | 400      | \$ 75.00    | \$ 30,000.00 |
| 126      | 8         | VCP      | BOA-5-4   | BOA-5-3   | Zinnia St      | Accelerated Maintenance                              | LF    | 200      | \$ 1.19     | \$ 238.00    |
| 127      | 8         | VCP      | BOA-5-5   | BOA-5-4   | Zinnia St      | Accelerated Maintenance                              | LF    | 210      | \$ 1.19     | \$ 249.90    |
| 128      | 8         | VCP      | BOA-6-3-2 | BOA-6-3-1 | Alkire St      | Accelerated Maintenance                              | LF    | 200      | \$ 1.19     | \$ 238.00    |
| 129      | 8         | VCP      | BOB-1     | BO-5      | Zinnia St      | CIPP   | LF    | 217      | \$ 75.00    | \$ 16,275.00 |
| 130      | 8         | VCP      | BOB-2     | BOB-1     | Willow Way     | Accelerated Maintenance                              | LF    | 350      | \$ 1.19     | \$ 416.50    |
| 131      | 8         | VCP      | BOB-3     | BOB-2     | Willow Way     | Root Cut   | LF    | 210      | \$ 1.85     | \$ 388.50    |
| 132      | 8         | VCP      | BOB-1     | BO-12     | Willow Ln      | CIPP   | LF    | 175      | \$ 75.00    | \$ 13,125.00 |
| 133      | 8         | VCP      | BR-4      | BR-3      | Orchard Rd     | Root Cut   | LF    | 371      | \$ 1.85     | \$ 686.35    |
| 134      | 8         | VCP      | BR-5-3    | BR-5-2    | Wide Acres Rd  | Accelerated Maintenance                              | LF    | 225      | \$ 1.19     | \$ 267.75    |
| 135      | 8         | VCP      | BS-2A-2   | BS-2A-1   | Meadowsweet Rd | CIPP   | LF    | 180      | \$ 75.00    | \$ 13,500.00 |
| 136      | 8         | VCP      | BT-4      | BT-3      | Wide Acres Rd  | Accelerated Maintenance                              | LF    | 220      | \$ 1.19     | \$ 261.80    |
| 137      | 8         | VCP      | BW-1A-4   | BW-1A-3   | Xenophon St    | Accelerated Maintenance                              | LF    | 300      | \$ 1.19     | \$ 357.00    |
| 138      | 8         | VCP      | BW-1A     | BW-1      | Youngfield St  | Accelerated Maintenance                              | LF    | 380      | \$ 1.19     | \$ 452.20    |
| 139      | 8         | VCP      | BX-3      | BX-2      | Yank St        | Root Cut   | LF    | 350      | \$ 1.85     | \$ 647.50    |
| 140      | 18        | VCP      | P-11-1    | P-10-1    | Arbutus St     | Mineral Cleaning                                     | LF    | 200      | \$ 1.85     | \$ 370.00    |
| 141      | 10        | VCP      | P-11A     | P-11      | Orchard Dr     | Mineral Cleaning                                     | LF    | 227      | \$ 1.85     | \$ 419.95    |
| 142      | 18        | VCP      | P-4-1     | P-3-1     | W 15th Dr      | Accelerated Maintenance                              | LF    | 295      | \$ 1.19     | \$ 351.05    |
| 143      | 18        | VCP      | P-6-1     | P-4-1     | W 15th Dr      | Accelerated Maintenance                              | LF    | 445      | \$ 1.19     | \$ 529.55    |
| 144      | 8         | VCP      | BY-1      | B-87      | Zang St        | Root Cut   | LF    | 380      | \$ 1.85     | \$ 703.00    |
| 145      | 8         | VCP      | BZ-1      | B-95      | Alkire St      | Root Cut   | LF    | 179      | \$ 1.85     | \$ 331.15    |
| 146      | 8         | VCP      | J-2       | J-1       | Rosewood Dr    | Accelerated Maintenance                              | LF    | 200      | \$ 1.19     | \$ 238.00    |
| 147      | 8         | VCP      | J-14-1    | J-14      | Easement       | Accelerated Maintenance                              | LF    | 125      | \$ 1.19     | \$ 148.75    |
| 148      | 8         | VCP      | JA-2      | JA-1      | Willow Ln      | Root Cut   | LF    | 230      | \$ 1.85     | \$ 425.50    |
| 149      | 8         | VCP      | JB-8      | JB-7      | W 23rd Ave     | Root Cut   | LF    | 280      | \$ 1.85     | \$ 518.00    |
| 150      | 8         | VCP      | JB-9      | JB-8      | W 23rd Ave     | Root Cut   | LF    | 290      | \$ 1.85     | \$ 536.50    |
| 151      | 8         | VCP      | JB-11     | JB-10     | W 23rd Ave     | Accelerated Maintenance                              | LF    | 83       | \$ 1.19     | \$ 98.77     |
| 152      | 8         | VCP      | JB-17A-1  | JB-17A    | W Alkire St    | Root Cut   | LF    | 375      | \$ 1.85     | \$ 693.75    |
| 153      | 8         | VCP      | JBA-3     | JBA-2     | W 21st Ave     | Root Cut   | LF    | 400      | \$ 1.85     | \$ 740.00    |
| 154      | 8         | VCP      | JBA-4     | JBA-3     | W 21st Ave     | Root Cut   | LF    | 400      | \$ 1.85     | \$ 740.00    |
| 155      | 8         | VCP      | JBC-2     | JBC-1     | Zang St        | Accelerated Maintenance                              | LF    | 324      | \$ 1.19     | \$ 385.56    |
| 156      | 8         | VCP      | JC-2      | JC-1      | Myrtlewood Ln  | Accelerated Maintenance                              | LF    | 230      | \$ 1.19     | \$ 273.70    |
| 157      | 12        | PVC      | P-2       | P-1       | W 15th Dr      | CIPP   | LF    | 111      | \$ 75.00    | \$ 8,325.00  |
| 158      | 12        | VCP      | P-3       | P-2       | W 15th Dr      | Accelerated Maintenance, Cut intruding tap at 112.7' | LF    | 385      | \$ 1.85     | \$ 3,212.25  |
| 159      | 12        | VCP      | P-7       | P-6       | W 15th Dr      | CIPP   | LF    | 338      | \$ 75.00    | \$ 25,350.00 |
| 160      | 10        | VCP      | P-9       | P-8       | Arbutus St     | Accelerated Maintenance                              | LF    | 100      | \$ 1.19     | \$ 119.00    |
| 161      | 10        | VCP      | P-13      | P-12      | Orchard Dr     | Accelerated Maintenance                              | LF    | 192      | \$ 1.19     | \$ 228.48    |

Remarks:

|     |                                 |                       |               |
|-----|---------------------------------|-----------------------|---------------|
|     |                                 | <b>Cost of Items:</b> | \$ 341,295.15 |
|     |                                 | <b>Contingencies:</b> | \$ 68,259.03  |
|     |                                 | <b>Subtotal:</b>      | \$ 409,554.18 |
| 10% | Const. Engineering/Observation: | \$                    | 40,955.42     |
|     | <b>Total Cost:</b>              | \$                    | 450,509.60    |

**Project:** Northwest Lakewood 2022 CIP  
**Location:** Lakewood, Golden, Wheat Ridge  
**Subject:** EOPC - Category 3 - High Priority  
**Client:** Northwest Lakewood Sanitation District

**Date:** 22-Jun-22  
**Job No.:** 17.0638.C.10  
**Prep. By:** AG  
**Ckd. By:** BW

**Note:** Any opinions of price, probable project costs or construction costs rendered by MARTIN/MARTIN represent its best judgment and are furnished for general guidance. MARTIN/MARTIN makes no warranty of guarantee, either expressed or implied as to the accuracy of such opinions as compared to bid or actual cost.  
 \*Denotes 2021 repairs that have been deferred (not completed) to be completed for 2022

| Item No.        | Size [in] | Material | USMH        | DSMH      | Location           | Recommended Rehab                   | Units                                      | Quantity | Unit Price            | Item Cost       |
|-----------------|-----------|----------|-------------|-----------|--------------------|-------------------------------------|--|----------|-----------------------|-----------------|
| 1               | 8         | VCP      | AB-12-2     | AB-12-1   | W 27th Pl          | CIPP                                | LF   | 404      | \$ 65.00              | \$ 26,260.00    |
| 2               | 8         | VCP      | AD-6-3      | AD-6-2    | W 29th Pl          | Root Cut, CIPP                      | LF   | 303      | \$ 66.85              | \$ 20,255.55    |
| 3               | 12        | VCP      | BF-7        | BF-6      | W 34th Pl          | 10' Point Repair at 5'-15'          | LS   | 1        | \$ 54,000.00          | \$ 54,000.00    |
| 4               | 12        | VCP      | BF-17       | BF-16A    | Easement           | 10' Point Repair at 15'-25'         | LS   | 1        | \$ 62,000.00          | \$ 62,000.00    |
| 5               | 8         | VCP      | BF-18-2     | BF-18-1   | W 33rd Pl          | CIPP                                | LF   | 25       | \$ 65.00              | \$ 1,625.00     |
| 6               | 8         | VCP      | C-6-4       | C-6-3     | W 27th Ave         | CIPP                                | LF   | 261      | \$ 65.00              | \$ 16,971.50    |
| 7               | 8         | VCP      | CM-5        | CM-4      | Routt St           | CIPP                                | LF   | 116      | \$ 65.00              | \$ 7,514.00     |
| 8               | 8         | VCP      | ZD-2-1      | ZD-2      | W 22nd Pl          | CIPP                                | LF   | 231      | \$ 65.00              | \$ 15,028.00    |
| 9               | 8         | VCP      | AB-11-3A    | AB-11-2A  | W 28th Ave         | Root Cut, CIPP                      | LF   | 271      | \$ 66.85              | \$ 18,089.61    |
| 10              | 8         | VCP      | ACB-3       | ACB-2     | Swadley Dr         | Root Cut, CIPP                      | LF   | 54       | \$ 66.85              | \$ 3,636.64     |
| 11              | 8         | VCP      | BG-9        | BG-8      | Wright St          | Root Cut, CIPP                      | LF   | 240      | \$ 66.85              | \$ 16,030.63    |
| 12              | 8         | VCP      | A-47A-9     | A-47A-8   | Paramount Pkwy     | Mineral Cleaning, CIPP              | LF   | 204      | \$ 66.85              | \$ 13,637.40    |
| 13              | 8         | VCP      | C-4A-1      | C-4A      | W 27th Pl          | Mineral Cleaning, CIPP              | LF   | 396      | \$ 66.85              | \$ 26,465.92    |
| 14              | 8         | VCP      | C-6-3-1A    | C-6-3-1   | W 26th Pl          | Root Cut, Mineral Cleaning, CIPP    | LF   | 275      | \$ 68.70              | \$ 18,906.24    |
| 15              | 8         | VCP      | C-6-3-2     | C-6-3-2   | W 26th Pl          | Mineral Cleaning, CIPP              | LF   | 323      | \$ 66.85              | \$ 21,619.29    |
| 16              | 8         | VCP      | B-11R-28B-1 | B-11R-28B | Easement           | Root Cut, CIPP                      | LF   | 161      | \$ 66.85              | \$ 10,789.59    |
| 17              | 8         | VCP      | B-16A-A     | B-16A     | Wright Ct          | CIPP                                | LF   | 399      | \$ 65.00              | \$ 25,941.50    |
| 18              | 12        | VCP      | B-7         | B-36      | Willow Ln easement | CIPP                                | LF   | 141      | \$ 120.00             | \$ 16,896.00    |
| 19              | 8         | VCP      | BO-3        | BO-2A     | W 16th Dr          | 5' CIPP at 25'-30'                  | EA   | 1        | \$ 11,000.00          | \$ 11,000.00    |
| 20              | 8         | VCP      | BO-11       | BO-10     | W 16th Dr          | CIPP                                | LS   | 150      | \$ 65.00              | \$ 9,750.00     |
| 21              | 8         | VCP      | BOA-6-2     | BOA-6-1   | Zinnia Ct          | CIPP                                | LF   | 354      | \$ 65.00              | \$ 23,010.00    |
| 22              | 8         | VCP      | BOB-4       | BOB-3     | Willow Way         | 5' CIPP at 0'-5'                    | EA   | 1        | \$ 11,000.00          | \$ 11,000.00    |
| 23              | 8         | VCP      | BOD-3       | BOD-2     | Willow Ln          | 5' CIPP x2 at 20'-25' and 325'-330' | EA   | 2        | \$ 11,000.00          | \$ 22,000.00    |
| 24              | 8         | VCP      | BOD-4-1     | BOD-4     | N Arbutus St       | CIPP                                | LF   | 190      | \$ 65.00              | \$ 12,350.00    |
| 25              | 8         | VCP      | BS-3        | BS-2A     | Easement           | Root Cut, Mineral Cleaning, CIPP    | LF   | 328      | \$ 123.70             | \$ 40,561.23    |
| 26              | 8         | VCP      | BZ-1A       | BZ-1      | Alkire St easement | CIPP                                | LF   | 405      | \$ 120.00             | \$ 48,624.00    |
| 27              | 8         | VCP      | J-8A        | J-8       | W 20th Ave         | 10' Point Repair at 0'-10'          | LS   | 1        | \$ 58,000.00          | \$ 58,000.00    |
| 28              | 8         | VCP      | JB-7        | JB-6      | W 23rd Ave         | 5' point repair at 255'-260'        | LS   | 1        | \$ 44,000.00          | \$ 44,000.00    |
| 29              | 8         | VCP      | JB-10       | JB-9      | W 23rd Ave         | CIPP                                | LF   | 286      | \$ 65.00              | \$ 18,577.00    |
| 30              | 12        | VCP      | P-8         | P-7       | W 15th Dr          | CIPP                                | LF   | 374      | \$ 65.00              | \$ 24,316.50    |
| 31              | 8         | VCP      | B-81        | B-80      | Overhill Rd        | 5' CIPP at 185'-190'                | EA   | 1        | \$ 11,000.00          | \$ 11,000.00    |
| 32              | 8         | VCP      | BOD-2-2B    | BOD-2-2A  | Winfield Pl        | CIPP                                | LF   | 247      | \$ 65.00              | \$ 16,055.00    |
| 33              | 8         | VCP      | ZD-3-1      | ZD-3      | W 23rd Pl          | 5' Point Repair, Root Cut, CIPP     | LF   | 400      | \$ 66.85              | \$ 26,752.00    |
| 34              | 8         | VCP      | Z-1         | BP-21     | Alkire St          | CIPP                                | LF   | 385      | \$ 65.00              | \$ 25,025.00    |
| *35             | 8         | VCP      | BP-1A       | BP-1      | Easement           | CIPP                                | LF   | 181      | \$ 120.00             | \$ 21,720.00    |
| *36             | 6         | VCP      | B-11R-7-1   | B-11R-7   | Easement           | Remove and Replace 6" with 8"       | LS   | 1        | \$ 62,000.00          | \$ 62,000.00    |
| *37             | 6         | VCP      | B-11R-7-2   | B-11R-7-1 | W 29th Pl          | 5' Point Repair, CIPP               | LF   | 258      | \$ 65.00              | \$ 16,779.00    |
| *38             | 6         | VCP      | B-11R-7-3   | B-11R-7-2 | W 29th Pl          | 5' Point Repair, CIPP               | LF   | 65       | \$ 65.00              | \$ 4,225.00     |
| *39             | 6         | VCP      | B-11R-7-2-1 | B-11R-7-2 | Easement           | 10' Point Repair                    | LS   | 1        | \$ 62,000.00          | \$ 62,000.00    |
| *40             | 8         | VCP      | C-2         | C-1A      | Quail St           | CIPP                                | LF   | 300      | \$ 65.00              | \$ 19,500.00    |
| *41             | 8         | VCP      | C-2A-1      | C-2A      | W. 29th Ave        | Mineral Clean                       | LF   | 400      | \$ 1.85               | \$ 740.00       |
| *42             | 8         | VCP      | ACB-1       | ACA-1     | Swadley Dr         | Root Cut, CIPP                      | LF   | 355      | \$ 66.85              | \$ 23,731.75    |
| *43             | 8         | VCP      | AC-1A       | AC-1      | W. 32nd Ave        | Remove Heavy Debris                 | LF   | 225      | \$ 1.85               | \$ 416.25       |
| *44             | 8         | VCP      | AD-6        | AD-5      | Routt Cir          | Mineral Clean                       | LF   | 114      | \$ 1.85               | \$ 210.90       |
| *45             | 8         | VCP      | AB-5-1      | AB-5      | W. 30th Ave        | Mineral Clean                       | LF   | 100      | \$ 1.85               | \$ 185.00       |
| *46             | 8         | VCP      | AB-12-3     | AB-12-2   | W. 27th Pl         | Remove Obstacle, CIPP               | LF   | 250      | \$ 65.85              | \$ 16,462.50    |
| *47             | 12        | VCP      | BF-11       | BF-10     | Easement           | Remove Heavy Debris                 | LF   | 150      | \$ 1.85               | \$ 277.50       |
| *48             | 12        | VCP      | BF-14       | BF-13     | Easement           | Replace CIPP                        | LF   | 314      | \$ 120.00             | \$ 37,680.00    |
| *49             | 8         | VCP      | Z-2         | Z-1       | Alkire St          | Remove Rocks                        | LF   | 370      | \$ 1.85               | \$ 684.50       |
| *50             | 8         | VCP      | GF-15       | GF-14     | Linda Vista Dr     | Remove Rocks                        | LF   | 100      | \$ 1.85               | \$ 185.00       |
| *51             | 8         | VCP      | CGA-1       | CG-2      | W. 25th Ave        | 5' Point Repair, CIPP               | LF   | 300      | \$ 65.00              | \$ 19,500.00    |
| *52             | 8         | VCP      | ZD-5-3      | ZD-5-2    | W. 25th Pl         | Mineral Clean, CIPP                 | LF   | 400      | \$ 66.85              | \$ 26,740.00    |
| *53             | 8         | VCP      | Z-15        | Z-14      | W. 22nd Pl         | Root Cut                            | LF   | 200      | \$ 1.85               | \$ 370.00       |
| *54             | 8         | VCP      | ZD-3-3      | ZD-3-2    | W. 23rd Pl         | Root Cut, CIPP                      | LF   | 135      | \$ 66.85              | \$ 9,024.75     |
| *55             | 8         | VCP      | ZC-8        | ZC-7      | Braun Dr           | 5' Point Repair, CIPP               | LF   | 270      | \$ 65.00              | \$ 17,550.00    |
| <b>Remarks:</b> |           |          |             |           |                    |                                     |  |          | <b>Cost of Items:</b> | \$ 1,337,602.51 |
|                 |           |          |             |           |                    |                                     | <b>20%</b>                                 |          | <b>Contingencies:</b> | \$ 267,520.50   |
|                 |           |          |             |           |                    |                                     |  |          | <b>Subtotal:</b>      | \$ 1,605,123.01 |
|                 |           |          |             |           |                    |                                     | <b>10% Const. Engineering/Observation:</b> |          | \$ 160,512.30         |                 |
|                 |           |          |             |           |                    |                                     | <b>Total District Cost:</b>                |          | \$ 1,765,635.31       |                 |

\*Denotes repairs that have been brought forward from 2021



**Project:** Northwest Lakewood 2022 CIP  
**Location:** Lakewood, Golden, Wheat Ridge  
**Subject:** EOPC - **Category 4** - Emergency Repairs  
**Client:** Northwest Lakewood Sanitation District

**Date:** 22-Jun-22  
**Job No.:** 17.0638.C.10  
**Prep. By:** AG  
**Ckd. By:** BW

**Note:** Any opinions of price, probable project costs or construction costs rendered by MARTIN/MARTIN represent its best judgment and are furnished for general guidance. MARTIN/MARTIN makes no warranty of guarantee, either expressed or implied as to the accuracy of such opinions as compared to bid or actual cost.  
 \*Denotes 2021 repairs that have been deferred (not completed) to be completed for 2022

| Item No.                          | Size [in] | Material | USMH | DSMH | Location | Recommended Rehab | Units | Quantity | Unit Price   | Item Cost                                |
|-----------------------------------|-----------|----------|------|------|----------|-------------------|-------|----------|--------------|--|
| 1                                 | 8         | PVC      | B-83 | B-82 | Yank St  | Emergency Repair  | LF    | 1        | \$ 17,555.00 | \$ 17,555.00                             |
| <b>Remarks:</b> PAID and COMPLETE |           |          |      |      |          |                   |       |          |              | <b>Cost of Items:</b> \$ 17,555.00       |
|                                   |           |          |      |      |          |                   |       |          |              | <b>Total District Cost:</b> \$ 17,555.00 |



**ENGINEER'S OPINION OF PROBABLE COST**

**Project: Northwest Lakewood 2022 CIP**  
**Location: Lakewood, Golden, Wheat Ridge**

**Date:** 21-Jun-22  
**Job No.:** 17.0638

**Subject: EOPC - 2022 NWLSD-CPWSD Interceptor Repairs**  
**Client: Northwest Lakewood Sanitation District**

**Prep. By:** BLT  
**Ckd. By:** BW

**Note:** Any opinions of price, probable project costs or construction costs rendered by MARTIN/MARTIN represent its best judgment and are furnished for general guidance. MARTIN/MARTIN makes no warranty of guarantee, either expressed or implied as to the accuracy of such opinions as compared to bid or actual cost.

| Item No.        | Item Description |         |          |  | Units                                  | Quantity | Unit Price  | NWLSD % Use | Item Cost     |
|-----------------|------------------|---------|----------|--|--|----------|-------------|-------------|---------------|
| 1               | RO-29            | RO-28   | Easement | Root Cut, CIPP - Interceptor Priority 3.1) | LF                                     | 297      | \$ 800.00   | 58.00%      | \$ 137,808.00 |
| 2               | RO-28            | RO-27   | Easement | Remove & Replace (Priority 3.2)            | LF                                     | 134      | \$ 1,400.00 | 58.00%      | \$ 108,808.00 |
| 3               | B-O-2            | B-O-1   | Easement | Accelerated Maintenance Priority 3.1)      | LS                                     | 1        | \$ 5,000.00 | 58.00%      | \$ 2,900.00   |
| 4               | B-O-1            | A-27A-1 | Easement | Remove & Replace (Priority 3.2)            | LF                                     | 337      | \$ 1,400.00 | 58.00%      | \$ 273,644.00 |
| <b>Remarks:</b> |                  |         |          |  | <b>Cost of Items:</b>                  |          |             |             | \$ 523,160.00 |
|                 |                  |         |          |  | <b>52% Eng/Escalation/Contingency:</b> |          |             |             | \$ 272,043.20 |
|                 |                  |         |          |  | <b>Total District Cost:</b>            |          |             |             | \$ 795,203.20 |



**Project: Northwest Lakewood 2023 CIP**  
**Location: Lakewood, Golden, Wheat Ridge**  
**Subject: EOPC - 2023 NWLSD-CPWSD Interceptor Repairs**  
**Client: Northwest Lakewood Sanitation District**

**Date: 22-Jun-22**  
**Job No.: 17.0638**  
**Prep. By: AG**  
**Ckd. By: BW**

Note: Any opinions of price, probable project costs or construction costs rendered by MARTIN/MARTIN represent its best judgment and are furnished for general guidance. MARTIN/MARTIN makes no warranty of guarantee, either expressed or implied as to the accuracy of such opinions as compared to bid or actual cost.

| Item No. | USMH   | DSMH   | Location   | Recommened Rehab | Units   | Quantity | Unit Price   | NWLSD % Use | Item Cost    |
|----------|--------|--------|------------|------------------|---|----------|--------------|-------------|--------------|
| 1        | B-13-1 | B-12-1 | W 32nd Ave | CIPP             | LF  | 258      | \$ 500.00    | 36.00%      | \$ 46,440.00 |
| 2        | B-10-1 | B-9-1  | Vivian Dr  | 5' CIPP          | EA  | 1        | \$ 45,000.00 | 36.00%      | \$ 16,200.00 |
| Remarks: |        |        |            |                  | <b>Cost of Items: \$ 62,640.00</b>                  |          |              |             |              |
|          |        |        |            |                  | <b>52% Eng/Escalation/Contingency: \$ 32,572.80</b> |          |              |             |              |
|          |        |        |            |                  | <b>Total District Cost: \$ 95,212.80</b>            |          |              |             |              |



## ZONE A CLEANING LIST

| Size [in] | Material | USMH       | DSMH       | Location              | Quantity |
|-----------|----------|------------|------------|-----------------------|----------|
| 24        | VCP      | A-32-1A    | A-32-1     | W 32nd Ave            | 316      |
| 12        | VCP      | A-36B      | A-36       | W 32nd Ave            | 139      |
| 8         | VCP      | AB-1       | A-31       | Robb Cir              | 79       |
| 8         | VCP      | AB-2       | AB-1       | Robb Cir              | 224      |
| 8         | VCP      | AB-4       | AB-3       | Robb Cir              | 174      |
| 8         | VCP      | AB-5       | AB-4       | Robb Cir              | 137      |
| 8         | VCP      | AB-10-1    | AB-10      | Simms St              | 163      |
| 8         | VCP      | AB-10-6-2A | AB-10-6-1A | Taft Ct               | 269      |
| 8         | VCP      | AB-10-6-4A | AB-10-6-3A | Taft Ct               | 205      |
| 8         | VCP      | AB-10-6    | AB-10-5    | Easement              | 170      |
| 8         | VCP      | AB-11      | AB-10      | Simms St              | 288      |
| 8         | VCP      | AB-11-1A   | AB-11      | W 28th Ave            | 173      |
| 8         | VCP      | AB-12-2    | AB-12-1    | W 27th Pl             | 404      |
| 8         | VCP      | AC-1       | A-30       | W 32nd Ave            | 404      |
| 8         | VCP      | ACA-3      | ACA-2      | Simms St              | 293      |
| 8         | VCP      | ACC-2      | ACC-1      | W 30th Pl             | 223      |
| 8         | VCP      | ACD-1      | ACA-3      | W 29th Pl             | 329      |
| 8         | VCP      | ACD-3      | ACD-2      | W 29th Pl             | 255      |
| 8         | VCP      | AD-2       | AD-1       | Routt Cir             | 222      |
| 8         | VCP      | AD-3       | AD-2       | Routt Cir             | 125      |
| 8         | VCP      | AD-4       | AD-3       | Routt Cir             | 124      |
| 8         | VCP      | AD-6-2     | AD-6-1     | W 29th Pl             | 98       |
| 8         | VCP      | AD-6-3     | AD-6-2     | W 29th Pl             | 303      |
| 8         | VCP      | B-1AA      | B-1        | Easement              | 420      |
| 12        | VCP      | BF-6       | BF-5       | W 34th Pl             | 222      |
| 12        | VCP      | BF-7       | BF-6       | W 34th Pl             | 113      |
| 8         | VCP      | BF-9-1     | BF-9       | Ward Rd               | 264      |
| 8         | VCP      | BF-16A-2   | BF-16A-1   | Youngfield Service Rd | 109      |
| 12        | VCP      | BF-17A     | BF-17      | Easement              | 160      |
| 12        | VCP      | BF-17      | BF-16A     | Easement              | 118      |
| 8         | VCP      | BF-18-2    | BF-18-1    | W 33rd Pl             | 25       |
| 8         | VCP      | BF-18-3-LH | BF-18-3    | W 33rd Pl             | 210      |
| 12        | VCP      | BF-18      | BF-17A     | W 33rd Ave            | 258      |
| 12        | VCP      | BF-19      | BF-18      | Alkire Ct             | 295      |
| 12        | VCP      | BF-20      | BF-19      | Alkire Ct             | 313      |
| 12        | VCP      | BF-21      | BF-20      | Easement              | 156      |
| 8         | VCP      | BG-2       | BG-1       | Union St              | 90       |
| 8         | VCP      | BG-3A-LH   | BG-3A      | Urban Ct              | 272      |
| 8         | VCP      | BG-5-1     | BG-5       | Vivian Ct             | 198      |
| 8         | VCP      | C-3B-2-2   | C-3B-2-1   | W 28th Pl             | 98       |
| 8         | VCP      | C-3B-7     | C-3B-6A    | Easement              | 195      |
| 8         | VCP      | C-6-4      | C-6-3      | W 27th Ave            | 261      |
| 8         | VCP      | C-6-5      | C-6-4      | W 27th Ave            | 325      |
| 6         | VCP      | C-8A-2     | C-8A-1     | Quail St              | 143      |
| 6         | VCP      | C-8A-3     | C-8A-2     | Quail St              | 78       |
| 8         | VCP      | C-10-1     | C-10       | Robb St               | 187      |
| 8         | VCP      | C-18       | C-17       | Urban St              | 404      |
| 8         | VCP      | CG-1       | C-14AD     | Tabor St              | 198      |
| 8         | VCP      | CG-6       | CG-5       | Easement              | 259      |
| 8         | VCP      | CGA-5      | CGA-4      | W 24th Pl Cir         | 115      |

|   |     |           |           |                     |     |
|---|-----|-----------|-----------|---------------------|-----|
| 8 | VCP | CGA-8     | CGA-7     | Simms St            | 105 |
| 8 | VCP | CM-5      | CM-4      | Rouff St            | 116 |
| 8 | VCP | CM-6      | CM-5      | W 25th Pl           | 207 |
| 8 | VCP | Z-1       | BF-21     | Alkire St           | 164 |
| 8 | VCP | Z-4       | Z-3       | Alkire St           | 218 |
| 8 | VCP | Z-6       | Z-5       | Alkire St           | 408 |
| 8 | PVC | Z-7-1     | Z-7       | Alkire St           | 296 |
| 8 | VCP | Z-7       | Z-6       | Alkire St           | 402 |
| 8 | VCP | Z-8       | Z-7       | W 26th Ave          | 284 |
| 8 | VCP | Z-14      | Z-13      | W 25th Ave          | 217 |
| 8 | VCP | Z-20      | Z-19      | W 22nd Pl           | 235 |
| 8 | VCP | Z-21      | Z-20      | W 22nd Ave          | 324 |
| 8 | VCP | ZC-13-2   | ZC-13-1   | Braun Dr            | 262 |
| 8 | VCP | ZC-13-3A  | ZC-13-2A  | W 20th Ave          | 47  |
| 8 | VCP | ZC-14     | ZC-13     | Coors Dr            | 265 |
| 8 | VCP | ZC-17     | ZC-16     | Coors Dr            | 134 |
| 8 | VCP | ZD-2-1    | ZD-2      | W 22nd Pl           | 231 |
| 8 | VCP | ZD-3-5    | ZD-3-4    | W 23rd Pl           | 150 |
| 8 | VCP | ZD-5      | ZD-4      | W 26th Ave          | 272 |
| 8 | VCP | ZC-8-1    | ZC-8      | W 21st Ave          | 138 |
| 8 | VCP | ZE-5      | ZE-4      | W 21st Pl           | 47  |
| 8 | VCP | AB-10-9-6 | AB-10-9-5 | Taft St             | 206 |
| 8 | VCP | AB-10-10  | AB-10-9   | Applewood Knolls Dr | 262 |
| 8 | VCP | AB-11-3A  | AB-11-2A  | W 28th Ave          | 271 |
| 8 | VCP | ACB-3     | ACB-2     | Swadley Dr          | 54  |
| 8 | PVC | ACE-1     | AC-3      | Tabor Dr            | 55  |
| 8 | VCP | B-2A-3    | B-2A-2    | Easement            | 55  |
| 8 | VCP | B-2A-4    | B-2A-3    | Easement            | 150 |
| 8 | VCP | B-2A-6-2  | B-2A-6-1  | Taft Ct             | 420 |
| 8 | VCP | B-2A-A1   | B-2A-A    | Easement            | 57  |
| 8 | VCP | B-2A-A    | B-2A      | Easement            | 228 |
| 8 | VCP | BG-2A-LH  | BG-2A     | Urban St            | 89  |
| 8 | VCP | BG-6-1    | BG-6      | Ward Rd             | 353 |
| 8 | VCP | BG-9      | BG-8      | Wright St           | 240 |
| 8 | PVC | C-1A-4-5  | C-1A-4-4  | W 30th Ave          | 131 |
| 8 | VCP | C-3B-2-3  | C-3B-2-2  | W 28th Pl           | 219 |
| 8 | VCP | CM-4      | CM-3      | Rouff St            | 100 |
| 8 | VCP | Z-16      | Z-15      | W 22nd Pl           | 270 |
| 8 | VCP | Z-17      | Z-16      | W 22nd Pl           | 141 |
| 8 | VCP | Z-18      | Z-17      | W 22nd Pl           | 142 |
| 8 | VCP | ZD-1      | Z-9       | W 26th Ave          | 265 |
| 8 | VCP | ZD-3-1    | ZD-3      | W 23rd Pl           | 400 |
| 8 | VCP | ZD-3-2    | ZD-3-1    | W 23rd Pl           | 210 |

|    |     |             |             |              |     |
|----|-----|-------------|-------------|--------------|-----|
| 8  | VCP | ZD-3-4      | ZD-3-3      | W 23rd Pl    | 315 |
| 8  | VCP | ZD-3        | ZD-2        | W 26th Ave   | 272 |
| 8  | VCP | ZD-4-1      | ZD-4        | W 24th Pl    | 402 |
| 8  | VCP | ZD-4-3      | ZD-4-2      | W 24th Pl    | 75  |
| 8  | VCP | ZD-4-4      | ZD-4-3      | W 24th Pl    | 336 |
| 8  | VCP | ZC-8-2      | ZC-8-1      | W 21st Ave   | 89  |
| 8  | VCP | ZE-7        | ZE-6        | W 21st Pl    | 111 |
| 8  | VCP | ZH-3        | ZH-2        | Creighton Dr | 131 |
| 8  | VCP | A-34A-2     | A-34A-1     | Easement     | 295 |
| 8  | VCP | A-34A-3     | A-34A-2     | W 30th Pl    | 124 |
| 8  | VCP | AB-8        | AB-7A       | Robb Cir     | 16  |
| 8  | VCP | AB-9        | AB-8        | Robb Cir     | 143 |
| 8  | VCP | AB-10-4     | AB-10-3     | W 28th Pl    | 271 |
| 8  | VCP | AB-10-9-1   | AB-10-9     | Easement     | 263 |
| 8  | VCP | AB-10-9-1B  | AB-10-9-1A  | W 27th Dr    | 99  |
| 8  | VCP | AB-10-9-2-1 | AB-10-9-2   | Tabor St     | 135 |
| 8  | VCP | AB-10-9-2-2 | AB-10-9-2-1 | Tabor St     | 129 |
| 8  | VCP | AB-11-2-1   | AB-11-2     | W 28th Ave   | 99  |
| 8  | VCP | AB-11-3     | AB-11-2     | W 28th Ave   | 112 |
| 8  | VCP | ACD-4       | ACD-3       | W 29th Pl    | 196 |
| 8  | VCP | C-3B-4      | C-3B-3      | Oak St       | 319 |
| 8  | VCP | C-3B-5      | C-3B-4      | Easement     | 170 |
| 8  | VCP | C-4A-1      | C-4A        | W 27th Pl    | 396 |
| 8  | VCP | C-6-3-1A    | C-6-3-1     | W 26th Pl    | 275 |
| 8  | VCP | C-6-3-2     | C-6-3-1     | W 26th Pl    | 323 |
| 8  | VCP | C-3B-6      | C-3B-5      | Easement     | 125 |
| 8  | VCP | Z-21-1      | Z-21        | W 22nd Ave   | 68  |
| 8  | VCP | Z-21-2      | Z-21-1      | W 22nd Ave   | 127 |
| 8  | VCP | Z-21-3      | Z-21-2      | W 22nd Ave   | 385 |
| 8  | VCP | Z-22        | Z-21        | Coors Dr     | 109 |
| 8  | VCP | ZC-1        | Z-8         | Braun Dr     | 238 |
| 8  | VCP | ZC-2        | ZC-1        | Braun Dr     | 209 |
| 8  | VCP | ZC-13-1     | ZC-13       | Braun Dr     | 321 |
| 8  | VCP | ZC-13       | ZC-12       | Braun Dr     | 191 |
| 8  | VCP | ZC-15-1     | ZC-15       | W 20th Pl    | 70  |
| 8  | VCP | ZC-15-2     | ZC-15-1     | W 20th Pl    | 138 |
| 8  | VCP | ZC-15       | ZC-14       | Coors Dr     | 71  |
| 8  | VCP | ZJ-2-1      | ZJ-2        | W 23rd Ave   | 85  |
| 8  | VCP | ZJ-2-2      | ZJ-2-1      | W 23rd Ave   | 62  |
| 8  | VCP | AB-13-1     | AB-13       | Easement     | 176 |
| 8  | VCP | AB-13-2     | AB-13-1     | Easement     | 204 |
| 24 | VCP | BF-1A       | BF-1        | W 34th Pl    | 275 |
| 24 | VCP | BF-1        | B-5         | Easement     | 52  |
| 12 | VCP | BF-8        | BF-7        | W 34th Pl    | 227 |
| 12 | VCP | BF-9        | BF-8        | Ward Rd      | 81  |
| 18 | PVC | BF-13A      | BF-13       | Easement     | 16  |
| 18 | PVC | BF-14-1A    | BF-13A      | Easement     | 396 |
| 18 | PVC | BF-14-1     | BF-14-1A    | Easement     | 3   |
| 24 | VCP | B-O-1       | A-27A-1     | Easement     | 335 |

## ACCELERATED MAINTENANCE

| Item No. | Size [in] | Material | USMH        | DSMH        | Location                         | Quantity |
|----------|-----------|----------|-------------|-------------|----------------------------------|----------|
| 1        | 8         | VCP      | A-47A-11    | A-47A-10    | Paramount Pkwy                   | 290      |
| 2        | 8         | VCP      | ACD-1       | ACA-3       | W 29th Pl                        | 329      |
| 3        | 8         | VCP      | ACD-3       | ACD-2       | W 29th Pl                        | 255      |
| 4        | 8         | PVC      | B-76-1      | B-75        | W Colfax Ave                     | 100      |
| 5        | 12        | VCP      | BF-6        | BF-5        | W 34th Pl                        | 222      |
| 6        | 8         | VCP      | CM-6        | CM-5        | W 25th Pl                        | 207      |
| 7        | 8         | VCP      | ZC-13-3A    | ZC-13-2A    | W 20th Ave                       | 47       |
| 8        | 8         | VCP      | ZC-8-1      | ZC-8        | W 21st Ave                       | 138      |
| 9        | 8         | VCP      | ZE-5        | ZE-4        | W 21st Pl                        | 47       |
| 10       | 8         | VCP      | ZE-7        | ZE-6        | W 21st Pl                        | 111      |
| 11       | 8         | VCP      | ZH-3        | ZH-2        | Creighton Dr                     | 131      |
| 12       | 8         | VCP      | A-37B-4-1   | A-37B-4     | W 31st Ave                       | 136      |
| 13       | 8         | VCP      | AB-10-9-2-2 | AB-10-9-2-1 | Tabor St                         | 129      |
| 14       | 8         | VCP      | AB-11-2-1   | AB-11-2     | W 28th Ave                       | 99       |
| 15       | 8         | VCP      | C-3B-4      | C-3B-3      | Oak St                           | 319      |
| 16       | 15        | VCP      | B-8R        | B-7         | Vivian Dr                        | 411      |
| 17       | 15        | VCP      | B-9         | B-8R        | Vivian Dr                        | 250      |
| 18       | 8         | VCP      | B-16A-2     | B-16A-1     | Wright Ct                        | 322      |
| 19       | 12        | VCP      | B-16        | B-15A       | W 31st Ave                       | 140      |
| 20       | 18        | VCP      | B-18-1      | B-17-1      | W 31st Ave                       | 97       |
| 21       | 8         | VCP      | B-18-3N     | B-18-2N     | Xenon St                         | 93       |
| 22       | 8         | VCP      | B-18-4-2    | B-18-4-1    | Youngfield St                    | 417      |
| 23       | 8         | PVC      | B-18-4-3    | B-18-4-2    | Youngfield St                    | 149      |
| 24       | 8         | VCP      | B-18-4      | B-18-3      | Youngfield St                    | 283      |
| 25       | 24        | PVC      | B-22-1      | B-21-1      | Easement                         | 408      |
| 26       | 24        | PVC      | B-23-1      | B-22-1      | Easement                         | 323      |
| 27       | 8         | VCP      | B-26-2-1-A  | B-26-2-1    | Youngfield St                    | 318      |
| 28       | 8         | VCP      | B-26-2-8    | B-26-2-7    | Beech Ct                         | 269      |
| 29       | 8         | VCP      | B-26-2-10   | B-26-2-9    | Beech Ct                         | 241      |
| 30       | 8         | VCP      | B-26-2      | B-26-1      | 26th Ave                         | 110      |
| 31       | 12        | VCP      | B-39        | B-38        | Willow Ln easement               | 100      |
| 32       | 12        | VCP      | B-40        | B-39        | Willow Ln easement               | 109      |
| 33       | 12        | VCP      | B-42-1R     | B-40-1R     | Willow Ln easement               | 40       |
| 34       | 12        | VCP      | B-42        | B-41        | Willow Ln                        | 111      |
| 35       | 15        | VCP      | B-79        | B-78A       | W Colfax Ave                     | 318      |
| 36       | 15        | VCP      | B-80A       | B-79        | W Colfax Ave                     | 311      |
| 37       | 8         | VCP      | B-80        | B-79A       | W Colfax Ave                     | 321      |
| 38       | 8         | VCP      | B-82        | B-81        | W 14th Pl                        | 337      |
| 39       | 15        | VCP      | B-83A       | B-82A       | Yank St                          | 419      |
| 40       | 8         | VCP      | B-87        | B-84        | Wide Acres Rd                    | 149      |
| 41       | 8         | VCP      | B-88        | B-87        | Wide Acres Rd                    | 371      |
| 42       | 8         | VCP      | B-90        | B-89        | Zinnia St and W 11th Ave         | 193      |
| 43       | 8         | VCP      | B-91        | B-90        | Zinnia St                        | 117      |
| 44       | 8         | VCP      | B-92        | B-91        | Zinnia St                        | 125      |
| 45       | 8         | VCP      | B-96        | B-95        | Alkire St                        | 231      |
| 46       | 24        | VCP      | BF-1A       | BF-1        | W 34th Pl                        | 275      |
| 47       | 24        | VCP      | BF-1        | B-5         | Easement                         | 52       |
| 48       | 8         | VCP      | BJ-1        | B-46        | W 20th Ave                       | 349      |
| 49       | 8         | VCP      | BJ-2        | BJ-1        | W 20th Ave                       | 391      |
| 50       | 8         | VCP      | BK-1        | B-49        | W 19th Pl                        | 243      |
| 51       | 24        | VCP      | B-O-1       | A-27A-1     | Easement                         | 335      |
| 52       | 8         | VCP      | BO-2A       | BO-2        | W 16th Dr/Youngfield St easement | 197      |
| 53       | 8         | VCP      | BO-2        | BO-1        | Youngfield St easement           | 190      |
| 54       | 8         | VCP      | BOA-3-2     | BOA-3-1     | Yank Ct                          | 410      |
| 55       | 8         | VCP      | BOA-4       | BOA-3       | Willow Ln                        | 278      |

|     |    |     |              |             |                                     |     |
|-----|----|-----|--------------|-------------|-------------------------------------|-----|
| 56  | 8  | VCP | BOA-5-1      | BOA-5       | Zinnia St                           | 296 |
| 57  | 8  | VCP | BT-1         | B-78        | Normandy Rd                         | 397 |
| 58  | 8  | VCP | BT-5         | BT-4        | Wide Acres Rd                       | 297 |
| 59  | 8  | VCP | BW-1         | B-86        | Wide Acres Rd                       | 314 |
| 60  | 15 | VCP | BX-4         | BX-3-1      | Yank St                             | 186 |
| 61  | 8  | VCP | BX-5         | BX-4        | Yank St                             | 163 |
| 62  | 8  | VCP | BX-6         | BX-5        | W 10th Ave                          | 14  |
| 63  | 18 | VCP | P-7-1        | P-6-1       | W 15th Dr                           | 338 |
| 64  | 15 | VCP | P-8-1        | P-7-1       | W 15th Dr                           | 406 |
| 65  | 18 | VCP | P-9-1        | P-8-1       | Arbutus St                          | 72  |
| 66  | 18 | VCP | P-9-1A       | P-9-1       | Arbutus St                          | 15  |
| 67  | 8  | VCP | J-1          | B-38        | Rosewood Dr easement                | 168 |
| 68  | 8  | VCP | J-6          | J-5         | Rosewood Dr                         | 261 |
| 69  | 8  | VCP | J-7          | J-6         | Rosewood Dr                         | 69  |
| 70  | 8  | VCP | J-11         | J-10        | W 20th Ave                          | 207 |
| 71  | 8  | VCP | JB-12        | JB-11       | Beech Ct                            | 243 |
| 72  | 8  | VCP | JB-16        | JB-15       | Beech Ct                            | 279 |
| 73  | 8  | VCP | JBB-2        | JBB-1       | Yellowstone St                      | 316 |
| 74  | 8  | VCP | JBC-1        | JB-8        | Zang St                             | 79  |
| 75  | 8  | VCP | JC-1         | J-3         | Myrtlewood Ln                       | 188 |
| 76  | 8  | VCP | JE-1         | J-5         | Rosewood Dr easement                | 159 |
| 77  | 12 | VCP | P-3A         | P-3         | W 15th Dr                           | 186 |
| 78  | 10 | VCP | P-10         | P-9         | Arbutus St                          | 121 |
| 79  | 10 | VCP | P-16         | P-15        | Easement                            | 333 |
| 80  | 8  | VCP | B-62-1       | B-62        | Youngfield St/Winfield Cir easement | 211 |
| 81  | 8  | VCP | A-56A-4      | A-56A-3     | Skyline Dr                          | 265 |
| 82  | 8  | VCP | AB-10-6      | AB-10-5     | Easement                            | 170 |
| 83  | 8  | VCP | AB-11-1A     | AB-11       | W 28th Ave                          | 173 |
| 84  | 8  | VCP | ACA-3        | ACA-2       | Simms St                            | 293 |
| 85  | 8  | VCP | ACC-2        | ACC-1       | W 30th Pl                           | 223 |
| 86  | 8  | VCP | B-11R-7A-5   | B-11R-7A-4A | Applewood Knolls Dr                 | 66  |
| 87  | 12 | VCP | B-46         | B-45        | Willow Ln                           | 86  |
| 88  | 8  | PVC | B-62         | B-61-1      | Winfield Cir easement               | 19  |
| 89  | 8  | VCP | BF-18-3-LH   | BF-18-3     | W 33rd Pl                           | 210 |
| 90  | 12 | VCP | BF-18        | BF-17A      | W 33rd Ave                          | 258 |
| 91  | 8  | VCP | BH-1-9-2-6-1 | BH-1-9-2-6A | Easement                            | 162 |
| 92  | 8  | VCP | BH-1-9-2-6A  | BH-1-9-2-6  | Easement                            | 26  |
| 93  | 6  | VCP | C-8A-2       | C-8A-1      | Quail St                            | 143 |
| 94  | 6  | VCP | C-8A-3       | C-8A-2      | Quail St                            | 78  |
| 95  | 8  | VCP | CG-1         | C-14AD      | Tabor St                            | 198 |
| 96  | 8  | VCP | CGA-5        | CGA-4       | W 24th Pl Cir                       | 115 |
| 97  | 8  | VCP | Z-8          | Z-7         | W 26th Ave                          | 284 |
| 98  | 8  | PVC | C-1A-4-5     | C-1A-4-4    | W 30th Ave                          | 131 |
| 99  | 8  | VCP | ZD-1         | Z-9         | W 26th Ave                          | 265 |
| 100 | 8  | VCP | ZD-3-4       | ZD-3-3      | W 23rd Pl                           | 315 |
| 101 | 8  | VCP | ZC-15-1      | ZC-15       | W 20th Pl                           | 70  |
| 102 | 24 | VCP | B-9-1        | B-8-1       | Vivian Dr                           | 263 |
| 103 | 18 | CI  | B-13-1       | B-12-1      | W 32nd Ave                          | 258 |
| 104 | 12 | VCP | B-15A-1      | B-15A       | Wright St                           | 295 |
| 105 | 18 | VCP | B-17-1       | B-16-1      | W 31st Ave                          | 387 |
| 106 | 8  | PVC | B-18-2N      | B-18-1N     | Xenon St                            | 230 |
| 107 | 12 | VCP | B-19         | B-18        | Xenon St                            | 401 |
| 108 | 18 | PVC | B-20-1       | B-19-1      | Xenon St                            | 259 |
| 109 | 12 | VCP | B-22         | B-21        | Easement                            | 396 |
| 110 | 8  | VCP | B-26-2-1-A-A | B-26-2-1-A  | Youngfield St                       | 151 |
| 111 | 8  | VCP | B-26-2-5     | B-26-2-4    | W 26th Ave                          | 216 |

|     |    |     |           |           |                    |     |
|-----|----|-----|-----------|-----------|--------------------|-----|
| 112 | 12 | VCP | B-29      | B-28      | Willow Ln easement | 48  |
| 113 | 12 | VCP | B-30      | B-29      | Willow Ln easement | 124 |
| 114 | 8  | VCP | B-67-1-2  | B-67-1-1  | Youngfield St      | 201 |
| 115 | 6  | PVC | B-67-3    | B-67-2    | W 15th Pl          | 124 |
| 116 | 10 | CI  | B-74B     | B-74A     | W Colfax Ave       | 179 |
| 117 | 15 | VCP | B-81A     | B-80A     | Overhill Rd        | 178 |
| 118 | 15 | VCP | B-82A     | B-81A     | W 14th Pl          | 333 |
| 119 | 8  | VCP | B-84      | B-83      | Yank St            | 166 |
| 120 | 8  | VCP | B-86      | B-84      | Wide Acres Rd      | 149 |
| 121 | 8  | VCP | B-89      | B-88      | Zinnia St          | 336 |
| 122 | 8  | VCP | B-95      | B-94      | W 10th Ave         | 310 |
| 123 | 8  | VCP | BE-1      | B-6A      | Union St           | 277 |
| 124 | 12 | VCP | BF-8      | BF-7      | W 34th Pl          | 227 |
| 125 | 12 | VCP | BF-9      | BF-8      | Ward Rd            | 81  |
| 126 | 8  | VCP | BM-1      | B-55      | Applewood Dr       | 283 |
| 127 | 8  | VCP | BN-1      | B-56-1-D  | Willow Ln          | 190 |
| 128 | 8  | VCP | BO-4      | BO-3      | W 16th Dr          | 53  |
| 129 | 8  | VCP | BO-8      | BO-7      | W 16th Dr          | 401 |
| 130 | 8  | PVC | BO-13     | BO-12     | Alkire St          | 277 |
| 131 | 8  | VCP | BOA-4-1   | BOA-4     | Zang St            | 243 |
| 132 | 8  | VCP | BOA-4-2   | BOA-4-1   | Zang St            | 396 |
| 133 | 8  | VCP | BOA-5-4   | BOA-5-3   | Zinnia St          | 197 |
| 134 | 8  | VCP | BOA-5-5   | BOA-5-4   | Zinnia St          | 207 |
| 135 | 8  | VCP | BOA-6-3-2 | BOA-6-3-1 | Alkire St          | 199 |
| 136 | 8  | VCP | BOB-2     | BOB-1     | Willow Way         | 351 |
| 137 | 8  | VCP | BR-5-3    | BR-5-2    | Wide Acres Rd      | 223 |
| 138 | 8  | VCP | BT-4      | BT-3      | Wide Acres Rd      | 217 |
| 139 | 8  | VCP | BW-1A-4   | BW-1A-3   | Xenophon St        | 297 |
| 140 | 8  | VCP | BW-1A     | BW-1      | Youngfield St      | 373 |
| 141 | 18 | VCP | P-4-1     | P-3-1     | W 15th Dr          | 286 |
| 142 | 18 | VCP | P-6-1     | P-4-1     | W 15th Dr          | 446 |
| 143 | 8  | VCP | J-2       | J-1       | Rosewood Dr        | 203 |
| 144 | 8  | VCP | J-14-1    | J-14      | Easement           | 125 |
| 145 | 8  | VCP | JB-11     | JB-10     | W 23rd Ave         | 84  |
| 146 | 8  | VCP | JBC-2     | JBC-1     | Zang St            | 322 |
| 147 | 8  | VCP | JC-2      | JC-1      | Myrtlewood Ln      | 229 |
| 148 | 12 | VCP | P-3       | P-2       | W 15th Dr          | 390 |
| 149 | 10 | VCP | P-9       | P-8       | Arbutus St         | 89  |
| 150 | 10 | VCP | P-13      | P-12      | Orchard Dr         | 192 |





HOT SPOT CLEANING LIST

| Size [in] | Material | USMH         | DSMH        | Location              | Recommended Rehab                     | Units | Quantity |
|-----------|----------|--------------|-------------|-----------------------|---------------------------------------|-------|----------|
| 12        | VCP      | A-36B        | A-36        | W 32nd Ave            | Mineral Cleaning                      | LF    | 139      |
| 8         | VCP      | A-47A-14     | A-47A-13    | W 26th Ave            | CIPP                                  | LF    | 148      |
| 8         | VCP      | A-56A-4      | A-56A-3     | Skyline Dr            | Accelerated Maintenance               | LF    | 265      |
| 8         | VCP      | AB-1         | A-31        | Robb Cir              | Root Cut                              | LF    | 79       |
| 8         | VCP      | AB-2         | AB-1        | Robb Cir              | Root Cut                              | LF    | 224      |
| 8         | VCP      | AB-4         | AB-3        | Robb Cir              | Root Cut                              | LF    | 174      |
| 8         | VCP      | AB-5         | AB-4        | Robb Cir              | Mineral Cleaning                      | LF    | 137      |
| 8         | VCP      | AB-10-1      | AB-10       | Simms St              | Mineral Cleaning                      | LF    | 163      |
| 8         | VCP      | AB-10-6-4A   | AB-10-6-3A  | Taft Ct               | Root Cut, Cut intruding tap at 175.6' | LF    | 205      |
| 8         | VCP      | AB-10-6      | AB-10-5     | Easement              | Accelerated Maintenance               | LF    | 170      |
| 8         | VCP      | AB-11-1A     | AB-11       | W 28th Ave            | Accelerated Maintenance               | LF    | 173      |
| 8         | VCP      | ACA-3        | ACA-2       | Simms St              | Accelerated Maintenance               | LF    | 293      |
| 8         | VCP      | ACC-2        | ACC-1       | W 30th Pl             | Accelerated Maintenance               | LF    | 223      |
| 8         | VCP      | AD-2         | AD-1        | Rouff Cir             | Root Cut                              | LF    | 222      |
| 8         | VCP      | AD-3         | AD-2        | Rouff Cir             | Mineral Cleaning                      | LF    | 125      |
| 8         | VCP      | AD-4         | AD-3        | Rouff Cir             | CIPP                                  | LF    | 124      |
| 8         | VCP      | AD-6-2       | AD-6-1      | W 29th Pl             | Root Cut, CIPP                        | LF    | 98       |
| 8         | VCP      | B-11R-7A-5   | B-11R-7A-4A | Applewood Knolls Dr   | Accelerated Maintenance               | LF    | 66       |
| 8         | VCP      | B-11R-28B-1  | B-11R-28B   | Easement              | Root Cut, CIPP                        | LF    | 161      |
| 12        | VCP      | B-46         | B-45        | Willow Ln             | Accelerated Maintenance               | LF    | 86       |
| 8         | PVC      | B-62         | B-61-1      | Winfield Cir easement | Accelerated Maintenance               | LF    | 19       |
| 8         | VCP      | BF-9-1       | BF-9        | Ward Rd               | Root Cut                              | LF    | 264      |
| 8         | VCP      | BF-16A-2     | BF-16A-1    | Youngfield Service Rd | Root Cut                              | LF    | 109      |
| 12        | VCP      | BF-17A       | BF-17       | Easement              | Mineral Cleaning                      | LF    | 160      |
| 8         | VCP      | BF-18-3-LH   | BF-18-3     | W 33rd Pl             | Accelerated Maintenance               | LF    | 210      |
| 12        | VCP      | BF-18        | BF-17A      | W 33rd Ave            | Accelerated Maintenance               | LF    | 258      |
| 12        | VCP      | BF-19        | BF-18       | Alkire Ct             | Mineral Cleaning                      | LF    | 295      |
| 12        | VCP      | BF-20        | BF-19       | Alkire Ct             | Mineral Cleaning                      | LF    | 313      |
| 12        | VCP      | BF-21        | BF-20       | Easement              | Mineral Cleaning                      | LF    | 156      |
| 8         | VCP      | BG-3A-LH     | BG-3A       | Urban Ct              | Mineral Cleaning                      | LF    | 272      |
| 8         | VCP      | BG-5-1       | BG-5        | Vivian Ct             | Mineral Cleaning                      | LF    | 198      |
| 8         | VCP      | BH-1-9-2-6-1 | BH-1-9-2-6A | Easement              | Accelerated Maintenance               | LF    | 162      |
| 8         | VCP      | BH-1-9-2-6A  | BH-1-9-2-6  | Easement              | Accelerated Maintenance               | LF    | 26       |
| 8         | VCP      | C-3B-7       | C-3B-6A     | Easement              | CIPP                                  | LF    | 195      |
| 8         | VCP      | C-6-5        | C-6-4       | W 27th Ave            | CIPP                                  | LF    | 325      |
| 6         | VCP      | C-8A-2       | C-8A-1      | Quail St              | Accelerated Maintenance               | LF    | 143      |
| 6         | VCP      | C-8A-3       | C-8A-2      | Quail St              | Accelerated Maintenance               | LF    | 78       |
| 8         | VCP      | CG-1         | C-14AD      | Tabor St              | Accelerated Maintenance               | LF    | 198      |
| 8         | VCP      | CGA-5        | CGA-4       | W 24th Pl Cir         | Accelerated Maintenance               | LF    | 115      |
| 8         | VCP      | GD-2         | GD-1        | Miller St             | Root Cut                              | LF    | 353      |
| 8         | VCP      | P-1-1        | B-62-B      | Youngfield St         | Mineral Cleaning                      | LF    | 51       |
| 8         | VCP      | Z-4          | Z-3         | Alkire St             | Mineral Cleaning                      | LF    | 218      |
| 8         | PVC      | Z-7-1        | Z-7         | Alkire St             | Root Cut                              | LF    | 296      |
| 8         | VCP      | Z-7          | Z-6         | Alkire St             | Mineral Cleaning                      | LF    | 402      |
| 8         | VCP      | Z-8          | Z-7         | W 26th Ave            | Accelerated Maintenance               | LF    | 284      |
| 8         | VCP      | Z-14         | Z-13        | W 25th Ave            | Root Cut                              | LF    | 217      |
| 8         | VCP      | Z-20         | Z-19        | W 22nd Pl             | Root Cut                              | LF    | 235      |
| 8         | VCP      | ZC-13-2      | ZC-13-1     | Braun Dr              | Mineral Cleaning                      | LF    | 262      |
| 8         | VCP      | ZC-14        | ZC-13       | Coors Dr              | Root Cut                              | LF    | 265      |
| 8         | VCP      | ZD-3-5       | ZD-3-4      | W 23rd Pl             | 10' Point Repair at 85'-95'           | LS    | 1        |
| 8         | VCP      | ZD-5         | ZD-4        | W 26th Ave            | Mineral Cleaning                      | LF    | 272      |
| 8         | VCP      | AB-10-9-6    | AB-10-9-5   | Taft St               | Root Cut                              | LF    | 206      |
| 8         | VCP      | B-2A-A       | B-2A        | Easement              | Root Cut                              | LF    | 228      |
| 8         | VCP      | BE-2         | BE-1        | Union St              | Root Cut                              | LF    | 260      |
| 8         | VCP      | BG-2A-LH     | BG-2A       | Urban St              | Root Cut                              | LF    | 89       |
| 8         | VCP      | BG-6-1       | BG-6        | Ward Rd               | Root Cut                              | LF    | 353      |
| 8         | PVC      | C-1A-4-5     | C-1A-4-4    | W 30th Ave            | Accelerated Maintenance               | LF    | 131      |
| 8         | VCP      | Z-16         | Z-15        | W 22nd Pl             | Root Cut                              | LF    | 270      |
| 8         | VCP      | ZD-1         | Z-9         | W 26th Ave            | Accelerated Maintenance               | LF    | 265      |
| 8         | VCP      | ZD-3-1       | ZD-3        | W 23rd Pl             | Root Cut, CIPP                        | LF    | 400      |
| 8         | VCP      | ZD-3-2       | ZD-3-1      | W 23rd Pl             | Root Cut                              | LF    | 210      |
| 8         | VCP      | ZD-3-4       | ZD-3-3      | W 23rd Pl             | Accelerated Maintenance               | LF    | 315      |
| 8         | VCP      | ZD-4-1       | ZD-4        | W 24th Pl             | Mineral Cleaning                      | LF    | 402      |
| 8         | VCP      | ZC-8-2       | ZC-8-1      | W 21st Ave            | Mineral Cleaning                      | LF    | 89       |
| 8         | VCP      | A-34A-2      | A-34A-1     | Easement              | Mineral Cleaning                      | LF    | 295      |
| 8         | VCP      | AB-10-4      | AB-10-3     | W 28th Pl             | Mineral Cleaning                      | LF    | 271      |
| 8         | VCP      | ACD-4        | ACD-3       | W 29th Pl             | Mineral Cleaning                      | LF    | 196      |
| 8         | VCP      | C-3B-6       | C-3B-5      | Easement              | Mineral Cleaning                      | LF    | 125      |
| 8         | VCP      | Z-21-1       | Z-21        | W 22nd Ave            | Mineral Cleaning                      | LF    | 68       |
| 8         | VCP      | Z-21-2       | Z-21-1      | W 22nd Ave            | Mineral Cleaning                      | LF    | 127      |
| 8         | VCP      | Z-21-3       | Z-21-2      | W 22nd Ave            | Root Cut                              | LF    | 385      |
| 8         | VCP      | ZC-1         | Z-8         | Braun Dr              | Mineral Cleaning                      | LF    | 238      |
| 8         | VCP      | ZC-13-1      | ZC-13       | Braun Dr              | Mineral Cleaning                      | LF    | 321      |
| 8         | VCP      | ZC-15-1      | ZC-15       | W 20th Pl             | Accelerated Maintenance               | LF    | 70       |

|    |     |              |            |                    |  |    |     |
|----|-----|--------------|------------|--------------------|--|----|-----|
| 8  | VCP | ZC-15-2      | ZC-15-1    | W 20th Pl          | Mineral Cleaning                                     | LF | 138 |
| 8  | VCP | ZC-15        | ZC-14      | Coors Dr           | Mineral Cleaning                                     | LF | 71  |
| 8  | VCP | ZJ-2-1       | ZJ-2       | W 23rd Ave         | Mineral Cleaning                                     | LF | 85  |
| 8  | VCP | AB-13-2      | AB-13-1    | Easement           | CIPP   | LF | 204 |
| 24 | VCP | B-9-1        | B-8-1      | Vivian Dr          | Accelerated Maintenance                              | LF | 263 |
| 18 | CI  | B-13-1       | B-12-1     | W 32nd Ave         | Accelerated Maintenance                              | LF | 258 |
| 12 | VCP | B-15A-1      | B-15A      | Wright St          | Accelerated Maintenance                              | LF | 295 |
| 18 | VCP | B-17-1       | B-16-1     | W 31st Ave         | Accelerated Maintenance                              | LF | 387 |
| 8  | PVC | B-18-2N      | B-18-1N    | Xenon St           | Accelerated Maintenance                              | LF | 230 |
| 12 | VCP | B-19         | B-18       | Xenon St           | Accelerated Maintenance                              | LF | 401 |
| 18 | PVC | B-20-1       | B-19-1     | Xenon St           | Accelerated Maintenance                              | LF | 259 |
| 12 | VCP | B-22         | B-21       | Easement           | Accelerated Maintenance                              | LF | 396 |
| 8  | VCP | B-26-2-1-A-A | B-26-2-1-A | Youngfield St      | Accelerated Maintenance                              | LF | 151 |
| 8  | VCP | B-26-2-1-B   | B-26-2-1-A | W 24th Pl          | CIPP   | LF | 375 |
| 8  | VCP | B-26-2-4     | B-26-2-3   | W 26th Ave         | Root Cut   | LF | 300 |
| 8  | VCP | B-26-2-5     | B-26-2-4   | W 26th Ave         | Accelerated Maintenance                              | LF | 216 |
| 12 | VCP | B-28         | B-27       | Willow Ln easement | Mineral Cleaning                                     | LF | 338 |
| 12 | VCP | B-29         | B-28       | Willow Ln easement | Accelerated Maintenance                              | LF | 48  |
| 12 | VCP | B-30         | B-29       | Willow Ln easement | Accelerated Maintenance                              | LF | 124 |
| 12 | VCP | B-31         | B-30       | Willow Ln easment  | Mineral Cleaning                                     | LF | 163 |
| 12 | VCP | B-33         | B-32       | Willow Ln easement | Mineral Cleaning                                     | LF | 113 |
| 12 | VCP | B-34         | B-33       | Willow Ln easement | Mineral Cleaning                                     | LF | 201 |
| 12 | VCP | B-35         | B-34       | Willow Ln easement | Mineral Cleaning                                     | LF | 44  |
| 12 | VCP | B-36         | B-35       | Willow Ln easement | Mineral Cleaning                                     | LF | 177 |
| 12 | VCP | B-44         | B-43       | Willow Ln          | Mineral Cleaning                                     | LF | 285 |
| 12 | VCP | B-45         | B-44       | Willow Ln          | Mineral Cleaning                                     | LF | 149 |
| 8  | VCP | B-67-1-2     | B-67-1-1   | Youngfield St      | Accelerated Maintenance                              | LF | 201 |
| 6  | PVC | B-67-3       | B-67-2     | W 15th Pl          | Accelerated Maintenance                              | LF | 124 |
| 10 | CI  | B-74B        | B-74A      | W Colfax Ave       | Accelerated Maintenance                              | LF | 179 |
| 15 | VCP | B-81A        | B-80A      | Overhill Rd        | Accelerated Maintenance                              | LF | 178 |
| 15 | VCP | B-82A        | B-81A      | W 14th Pl          | Accelerated Maintenance                              | LF | 333 |
| 8  | VCP | B-84         | B-83       | Yank St            | Accelerated Maintenance                              | LF | 166 |
| 8  | VCP | B-86         | B-84       | Wide Acres Rd      | Accelerated Maintenance                              | LF | 149 |
| 8  | VCP | B-89         | B-88       | Zinnia St          | Accelerated Maintenance                              | LF | 336 |
| 8  | VCP | B-95         | B-94       | W 10th Ave         | Accelerated Maintenance                              | LF | 310 |
| 8  | VCP | BE-1         | B-6A       | Union St           | Accelerated Maintenance                              | LF | 277 |
| 12 | VCP | BF-8         | BF-7       | W 34th Pl          | Accelerated Maintenance                              | LF | 227 |
| 12 | VCP | BF-9         | BF-8       | Ward Rd            | Accelerated Maintenance                              | LF | 81  |
| 8  | VCP | BM-1         | B-55       | Applewood Dr       | Accelerated Maintenance                              | LF | 283 |
| 8  | VCP | BN-1         | B-56-1-D   | Willow Ln          | Accelerated Maintenance                              | LF | 190 |
| 8  | VCP | BO-4         | BO-3       | W 16th Dr          | Accelerated Maintenance                              | LF | 53  |
| 8  | VCP | BO-8         | BO-7       | W 16th Dr          | Accelerated Maintenance                              | LF | 401 |
| 8  | PVC | BO-13        | BO-12      | Alkire St          | Accelerated Maintenance                              | LF | 277 |
| 8  | VCP | BOA-2        | BOA-1      | Youngfield Ct      | CIPP   | LF | 407 |
| 8  | VCP | BOA-3-3      | BOA-3-2    | Yank Ct            | Root Cut   | LF | 192 |
| 8  | VCP | BOA-4-1      | BOA-4      | Zang St            | Accelerated Maintenance                              | LF | 243 |
| 8  | VCP | BOA-4-2      | BOA-4-1    | Zang St            | Accelerated Maintenance                              | LF | 396 |
| 8  | VCP | BOA-4-4      | BOA-4-3    | Zang St            | Cut intruding tap at 84.5'                           | EA | 1   |
| 8  | VCP | BOA-5-2      | BOA-5-1    | Zinnia St          | CIPP   | LF | 398 |
| 8  | VCP | BOA-5-4      | BOA-5-3    | Zinnia St          | Accelerated Maintenance                              | LF | 197 |
| 8  | VCP | BOA-5-5      | BOA-5-4    | Zinnia St          | Accelerated Maintenance                              | LF | 207 |
| 8  | VCP | BOA-6-3-2    | BOA-6-3-1  | Alkire St          | Accelerated Maintenance                              | LF | 199 |
| 8  | VCP | BOB-1        | BO-5       | Zinnia St          | CIPP   | LF | 219 |
| 8  | VCP | BOB-2        | BOB-1      | Willow Way         | Accelerated Maintenance                              | LF | 351 |
| 8  | VCP | BOB-3        | BOB-2      | Willow Way         | Root Cut   | LF | 210 |
| 8  | VCP | BOD-1        | BO-12      | Willow Ln          | CIPP   | LF | 172 |
| 8  | VCP | BR-4         | BR-3       | Orchard Rd         | Root Cut   | LF | 371 |
| 8  | VCP | BR-5-3       | BR-5-2     | Wide Acres Rd      | Accelerated Maintenance                              | LF | 223 |
| 8  | VCP | BS-2A-2      | BS-2A-1    | Meadowsweet Rd     | CIPP   | LF | 179 |
| 8  | VCP | BT-4         | BT-3       | Wide Acres Rd      | Accelerated Maintenance                              | LF | 217 |
| 8  | VCP | BW-1A-4      | BW-1A-3    | Xenophon St        | Accelerated Maintenance                              | LF | 297 |
| 8  | VCP | BW-1A        | BW-1       | Youngfield St      | Accelerated Maintenance                              | LF | 373 |
| 18 | VCP | P-11-1       | P-10-1     | Arbutus St         | Mineral Cleaning                                     | LF | 196 |
| 10 | VCP | P-11A        | P-11       | Orchard Dr         | Mineral Cleaning                                     | LF | 218 |
| 18 | VCP | P-4-1        | P-3-1      | W 15th Dr          | Accelerated Maintenance                              | LF | 286 |
| 18 | VCP | P-6-1        | P-4-1      | W 15th Dr          | Accelerated Maintenance                              | LF | 446 |
| 8  | VCP | BY-1         | B-87       | Zang St            | Root Cut   | LF | 371 |
| 8  | VCP | BZ-1         | B-95       | Alkire St          | Root Cut   | LF | 177 |
| 8  | VCP | J-2          | J-1        | Rosewood Dr        | Accelerated Maintenance                              | LF | 203 |
| 8  | VCP | J-14-1       | J-14       | Easement           | Accelerated Maintenance                              | LF | 125 |
| 8  | VCP | JA-2         | JA-1       | Willow Ln          | Root Cut   | LF | 116 |
| 8  | VCP | JB-8         | JB-7       | W 23rd Ave         | Root Cut   | LF | 272 |
| 8  | VCP | JB-9         | JB-8       | W 23rd Ave         | Root Cut   | LF | 292 |
| 8  | VCP | JB-11        | JB-10      | W 23rd Ave         | Accelerated Maintenance                              | LF | 84  |
| 8  | VCP | JB-17A-1     | JB-17A     | W Alkire St        | Root Cut   | LF | 375 |
| 8  | VCP | JBA-3        | JBA-2      | W 21st Ave         | Root Cut   | LF | 393 |
| 8  | VCP | JBA-4        | JBA-3      | W 21st Ave         | Root Cut   | LF | 397 |
| 8  | VCP | JBC-2        | JBC-1      | Zang St            | Accelerated Maintenance                              | LF | 322 |
| 8  | VCP | JC-2         | JC-1       | Myrtlewood Ln      | Accelerated Maintenance                              | LF | 229 |
| 12 | PVC | P-2          | P-1        | W 15th Dr          | CIPP   | LF | 112 |
| 12 | VCP | P-3          | P-2        | W 15th Dr          | Accelerated Maintenance, Cut intruding tap at 112.7' | LF | 390 |
| 12 | VCP | P-7          | P-6        | W 15th Dr          | CIPP   | LF | 341 |
| 10 | VCP | P-9          | P-8        | Arbutus St         | Accelerated Maintenance                              | LF | 89  |
| 10 | VCP | P-13         | P-12       | Orchard Dr         | Accelerated Maintenance                              | LF | 192 |

## ANNUAL ROOT CUT LIST

| Item No. | Size [in] | Material | USMH         | DSMH       | Location              | Quantity |
|----------|-----------|----------|--------------|------------|-----------------------|----------|
| 1        | 8         | VCP      | AB-10-6-2A   | AB-10-6-1A | Taft Ct               | 269      |
| 2        | 8         | VCP      | C-18         | C-17       | Urban St              | 404      |
| 3        | 8         | VCP      | CG-6         | CG-5       | Easement              | 259      |
| 4        | 8         | VCP      | ZC-17        | ZC-16      | Coors Dr              | 134      |
| 5        | 8         | VCP      | B-2A-6-2     | B-2A-6-1   | Taft Ct               | 420      |
| 6        | 8         | VCP      | C-3B-2-3     | C-3B-2-2   | W 28th Pl             | 219      |
| 7        | 8         | VCP      | Z-17         | Z-16       | W 22nd Pl             | 141      |
| 8        | 8         | VCP      | Z-18         | Z-17       | W 22nd Pl             | 142      |
| 9        | 8         | VCP      | ZD-4-3       | ZD-4-2     | W 24th Pl             | 75       |
| 10       | 8         | VCP      | ZD-4-4       | ZD-4-3     | W 24th Pl             | 336      |
| 11       | 8         | VCP      | ZC-13        | ZC-12      | Braun Dr              | 191      |
| 12       | 15        | VCP      | B-12         | B-11R      | Vivian Dr             | 55       |
| 13       | 8         | PVC      | B-18-1N      | B-18       | Xenon St              | 296      |
| 14       | 8         | VCP      | B-26-2-1-C   | B-26-2-1-B | W 24th Pl             | 264      |
| 15       | 8         | VCP      | B-26-2-8-3-1 | B-26-2-8-3 | W 23rd Cir            | 125      |
| 16       | 8         | VCP      | B-26-2-8-4   | B-26-2-8-3 | W 23rd Cir            | 103      |
| 17       | 8         | VCP      | B-26-2-8-5   | B-26-2-8-4 | W 23rd Cir            | 180      |
| 18       | 8         | VCP      | B-67-1-1     | B-67-1A    | Youngfield St         | 352      |
| 19       | 8         | VCP      | BK-6         | BK-5       | W 19th Pl             | 140      |
| 20       | 8         | VCP      | BOA-6-3-3    | BOA-6-3-2  | Alkire St             | 271      |
| 21       | 8         | VCP      | BOA-6-3      | BOA-6-2    | Zinnia Ct             | 92       |
| 22       | 8         | VCP      | BU-1         | B-79A      | W Kingsbury Ct        | 377      |
| 23       | 8         | VCP      | BW-1A-2      | BW-1A-1    | W 11th Pl easement    | 202      |
| 24       | 8         | VCP      | J-16         | J-15       | Easement              | 199      |
| 25       | 8         | VCP      | JB-2         | JB-1       | Willow Ln             | 242      |
| 26       | 8         | VCP      | JBA-9        | JBA-8      | Alkire St             | 193      |
| 27       | 8         | VCP      | JBB-1        | JB-7       | Yellowstone St        | 69       |
| 28       | 8         | VCP      | JBD-1        | JB-9       | Zinnia St             | 91       |
| 29       | 8         | VCP      | JBE-4        | JBE-3      | Zinnia Way            | 96       |
| 30       | 8         | VCP      | JD-2         | JD-1       | Applewood Dr          | 165      |
| 31       | 8         | VCP      | JD-3         | JD-2       | Applewood Dr          | 111      |
| 32       | 8         | VCP      | AB-1         | A-31       | Robb Cir              | 79       |
| 33       | 8         | VCP      | AB-2         | AB-1       | Robb Cir              | 224      |
| 34       | 8         | VCP      | AB-4         | AB-3       | Robb Cir              | 174      |
| 35       | 8         | VCP      | AB-10-6-4A   | AB-10-6-3A | Taft Ct               | 205      |
| 36       | 8         | VCP      | AD-2         | AD-1       | Routt Cir             | 222      |
| 37       | 8         | VCP      | AD-6-2       | AD-6-1     | W 29th Pl             | 98       |
| 38       | 8         | VCP      | B-11R-28B-1  | B-11R-28B  | Easement              | 161      |
| 39       | 8         | VCP      | BF-9-1       | BF-9       | Ward Rd               | 264      |
| 40       | 8         | VCP      | BF-16A-2     | BF-16A-1   | Youngfield Service Rd | 109      |
| 41       | 8         | VCP      | GD-2         | GD-1       | Miller St             | 353      |
| 42       | 8         | PVC      | Z-7-1        | Z-7        | Alkire St             | 296      |
| 43       | 8         | VCP      | Z-14         | Z-13       | W 25th Ave            | 217      |
| 44       | 8         | VCP      | Z-20         | Z-19       | W 22nd Pl             | 235      |
| 45       | 8         | VCP      | ZC-14        | ZC-13      | Coors Dr              | 265      |
| 46       | 8         | VCP      | AB-10-9-6    | AB-10-9-5  | Taft St               | 206      |
| 47       | 8         | VCP      | B-2A-A       | B-2A       | Easement              | 228      |
| 48       | 8         | VCP      | BE-2         | BE-1       | Union St              | 260      |

|    |   |     |           |          |                     |     |
|----|---|-----|-----------|----------|---------------------|-----|
| 49 | 8 | VCP | BG-2A-LH  | BG-2A    | Urban St            | 89  |
| 50 | 8 | VCP | BG-6-1    | BG-6     | Ward Rd             | 353 |
| 51 | 8 | VCP | Z-16      | Z-15     | W 22nd Pl           | 270 |
| 52 | 8 | VCP | ZD-3-1    | ZD-3     | W 23rd Pl           | 400 |
| 53 | 8 | VCP | ZD-3-2    | ZD-3-1   | W 23rd Pl           | 210 |
| 54 | 8 | VCP | Z-21-3    | Z-21-2   | W 22nd Ave          | 385 |
| 55 | 8 | VCP | B-26-2-4  | B-26-2-3 | W 26th Ave          | 300 |
| 56 | 8 | VCP | BOA-3-3   | BOA-3-2  | Yank Ct             | 192 |
| 57 | 8 | VCP | BOB-3     | BOB-2    | Willow Way          | 210 |
| 58 | 8 | VCP | BR-4      | BR-3     | Orchard Rd          | 371 |
| 59 | 8 | VCP | BY-1      | B-87     | Zang St             | 371 |
| 60 | 8 | VCP | BZ-1      | B-95     | Alkire St           | 177 |
| 61 | 8 | VCP | JA-2      | JA-1     | Willow Ln           | 116 |
| 62 | 8 | VCP | JB-8      | JB-7     | W 23rd Ave          | 272 |
| 63 | 8 | VCP | JB-9      | JB-8     | W 23rd Ave          | 292 |
| 64 | 8 | VCP | JB-17A-1  | JB-17A   | W Alkire St         | 375 |
| 65 | 8 | VCP | JBA-3     | JBA-2    | W 21st Ave          | 393 |
| 66 | 8 | VCP | JBA-4     | JBA-3    | W 21st Ave          | 397 |
| 67 | 8 | VCP | AD-6-3    | AD-6-2   | W 29th Pl           | 303 |
| 68 | 8 | VCP | AB-10-10  | AB-10-9  | Applewood Knolls Dr | 262 |
| 69 | 8 | VCP | AB-11-3A  | AB-11-2A | W 28th Ave          | 271 |
| 70 | 8 | VCP | ACB-3     | ACB-2    | Swadley Dr          | 54  |
| 71 | 8 | PVC | ACE-1     | AC-3     | Tabor Dr            | 55  |
| 72 | 8 | VCP | BG-9      | BG-8     | Wright St           | 240 |
| 73 | 8 | VCP | ZD-3      | ZD-2     | W 26th Ave          | 272 |
| 74 | 8 | VCP | AB-10-9-1 | AB-10-9  | Easement            | 263 |
| 75 | 8 | VCP | C-6-3-1A  | C-6-3-1  | W 26th Pl           | 275 |
| 76 | 8 | VCP | BS-3      | BS-2A    | Easement            | 328 |
| 77 | 8 | VCP | BX-3      | BX-2     | Yank St             | 350 |

## MINERAL CLEANING LIST

| Size [in] | Material | USMH        | DSMH       | Location              | Quantity |
|-----------|----------|-------------|------------|-----------------------|----------|
| 8         | VCP      | A-34A-3     | A-34A-2    | W 30th Pl             | 124      |
| 8         | VCP      | AB-9        | AB-8       | Robb Cir              | 143      |
| 8         | VCP      | AB-10-9-1B  | AB-10-9-1A | W 27th Dr             | 99       |
| 8         | VCP      | AB-10-9-2-1 | AB-10-9-2  | Tabor St              | 135      |
| 8         | VCP      | AB-11-3     | AB-11-2    | W 28th Ave            | 112      |
| 8         | VCP      | C-3B-5      | C-3B-4     | Easement              | 170      |
| 8         | VCP      | D-10        | D-9        | Rangeview Dr          | 113      |
| 8         | VCP      | Z-22        | Z-21       | Coors Dr              | 109      |
| 8         | VCP      | ZC-2        | ZC-1       | Braun Dr              | 209      |
| 8         | VCP      | ZJ-2-2      | ZJ-2-1     | W 23rd Ave            | 62       |
| 24        | VCP      | B-11R-1A    | B-10-1     | Vivian Dr             | 205      |
| 8         | VCP      | B-16A       | B-16       | W 31st Ave            | 128      |
| 12        | VCP      | B-27        | B-26       | Willow Ln easement    | 109      |
| 12        | VCP      | B-32        | B-31       | Willow Ln easement    | 242      |
| 12        | VCP      | B-38        | B-37       | Willow Ln easement    | 104      |
| 12        | VCP      | B-41        | B-40       | Willow Ln easement    | 134      |
| 10        | VCP      | B-74A       | P-11A      | W Colfax Ave          | 249      |
| 8         | VCP      | BRA-1       | P-11A-2    | W Colfax Ave easement | 126      |
| 8         | VCP      | BW-1A-6     | BW-1A-5    | Xenophon St           | 264      |
| 8         | VCP      | J-8         | J-7        | W 20th Ave easement   | 138      |
| 8         | VCP      | JB-1        | J-1        | Willow Ln             | 114      |
| 10        | VCP      | P-12        | P-11       | Orchard Dr            | 124      |
| 8         | VCP      | BS-2A       | BS-2       | Easement              | 27       |
| 12        | VCP      | A-36B       | A-36       | W 32nd Ave            | 139      |
| 8         | VCP      | AB-5        | AB-4       | Robb Cir              | 137      |
| 8         | VCP      | AB-10-1     | AB-10      | Simms St              | 163      |
| 8         | VCP      | AD-3        | AD-2       | Routt Cir             | 125      |
| 12        | VCP      | BF-17A      | BF-17      | Easement              | 160      |
| 12        | VCP      | BF-19       | BF-18      | Alkire Ct             | 295      |
| 12        | VCP      | BF-20       | BF-19      | Alkire Ct             | 313      |
| 12        | VCP      | BF-21       | BF-20      | Easement              | 156      |
| 8         | VCP      | BG-3A-LH    | BG-3A      | Urban Ct              | 272      |
| 8         | VCP      | BG-5-1      | BG-5       | Vivian Ct             | 198      |
| 8         | VCP      | P-1-1       | B-62-B     | Youngfield St         | 51       |
| 8         | VCP      | Z-4         | Z-3        | Alkire St             | 218      |
| 8         | VCP      | Z-7         | Z-6        | Alkire St             | 402      |
| 8         | VCP      | ZC-13-2     | ZC-13-1    | Braun Dr              | 262      |
| 8         | VCP      | ZD-5        | ZD-4       | W 26th Ave            | 272      |
| 8         | VCP      | ZD-4-1      | ZD-4       | W 24th Pl             | 402      |
| 8         | VCP      | ZC-8-2      | ZC-8-1     | W 21st Ave            | 89       |
| 8         | VCP      | A-34A-2     | A-34A-1    | Easement              | 295      |
| 8         | VCP      | AB-10-4     | AB-10-3    | W 28th Pl             | 271      |
| 8         | VCP      | ACD-4       | ACD-3      | W 29th Pl             | 196      |
| 8         | VCP      | C-3B-6      | C-3B-5     | Easement              | 125      |
| 8         | VCP      | Z-21-1      | Z-21       | W 22nd Ave            | 68       |
| 8         | VCP      | Z-21-2      | Z-21-1     | W 22nd Ave            | 127      |



|    |     |          |         |                    |     |
|----|-----|----------|---------|--------------------|-----|
| 8  | VCP | ZC-1     | Z-8     | Braun Dr           | 238 |
| 8  | VCP | ZC-13-1  | ZC-13   | Braun Dr           | 321 |
| 8  | VCP | ZC-15-2  | ZC-15-1 | W 20th Pl          | 138 |
| 8  | VCP | ZC-15    | ZC-14   | Coors Dr           | 71  |
| 8  | VCP | ZJ-2-1   | ZJ-2    | W 23rd Ave         | 85  |
| 12 | VCP | B-28     | B-27    | Willow Ln easement | 338 |
| 12 | VCP | B-31     | B-30    | Willow Ln easment  | 163 |
| 12 | VCP | B-33     | B-32    | Willow Ln easement | 113 |
| 12 | VCP | B-34     | B-33    | Willow Ln easement | 201 |
| 12 | VCP | B-35     | B-34    | Willow Ln easement | 44  |
| 12 | VCP | B-36     | B-35    | Willow Ln easement | 177 |
| 12 | VCP | B-44     | B-43    | Willow Ln          | 285 |
| 12 | VCP | B-45     | B-44    | Willow Ln          | 149 |
| 18 | VCP | P-11-1   | P-10-1  | Arbutus St         | 196 |
| 10 | VCP | P-11A    | P-11    | Orchard Dr         | 218 |
| 8  | VCP | A-47A-9  | A-47A-8 | Paramount Pkwy     | 204 |
| 8  | VCP | C-4A-1   | C-4A    | W 27th Pl          | 396 |
| 8  | VCP | C-6-3-1A | C-6-3-1 | W 26th Pl          | 275 |
| 8  | VCP | C-6-3-2  | C-6-3-1 | W 26th Pl          | 323 |
| 8  | VCP | BS-3     | BS-2A   | Easement           | 328 |

## MAPS

- A. 2007 – 2021 Repairs
- B. 2022 Jetting and Televising Zones
- C. 2022 Root Cuts and Mineral Removal
- D. 2022 CIP Recommended Repairs
- E. 2022 Category 1 CIP Repairs
- F. 2022 Category 2 CIP Repairs
- G. 2018 – 2022 Category 3 CIP Repairs (2018, 2019, & 2021 Holdovers)
- H. 2022 NWLSD-CPWSD Interceptor Repairs
- I. 2023 NWLSD-CPWSD Interceptor Repairs
- J. 2022 Hot Spots by Zone







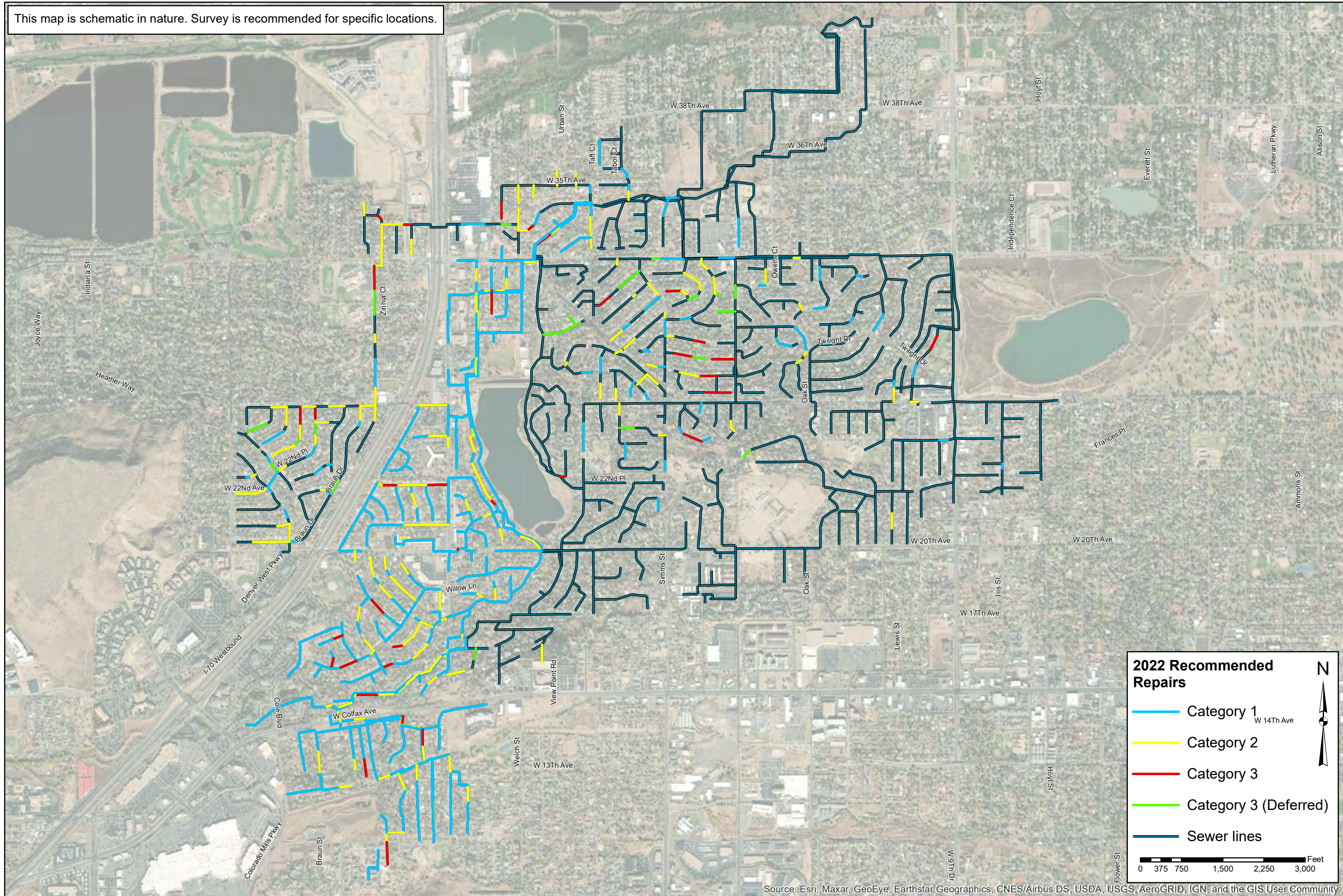








This map is schematic in nature. Survey is recommended for specific locations.



**2022 Recommended Repairs**

- Category 1
- Category 2
- Category 3
- Category 3 (Deferred)
- Sewer lines

0 375 750 1,500 2,250 3,000 Feet

N

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Northwest Lakewood  
Sanitation District  
2022 CIP Recommended Repairs**

|                          |
|--------------------------|
| Date: August 23, 2022    |
| Design By: SEP           |
| Drawn By: SEP            |
| Principal in Charge: WPP |
| Sheet Number: <b>D</b>   |



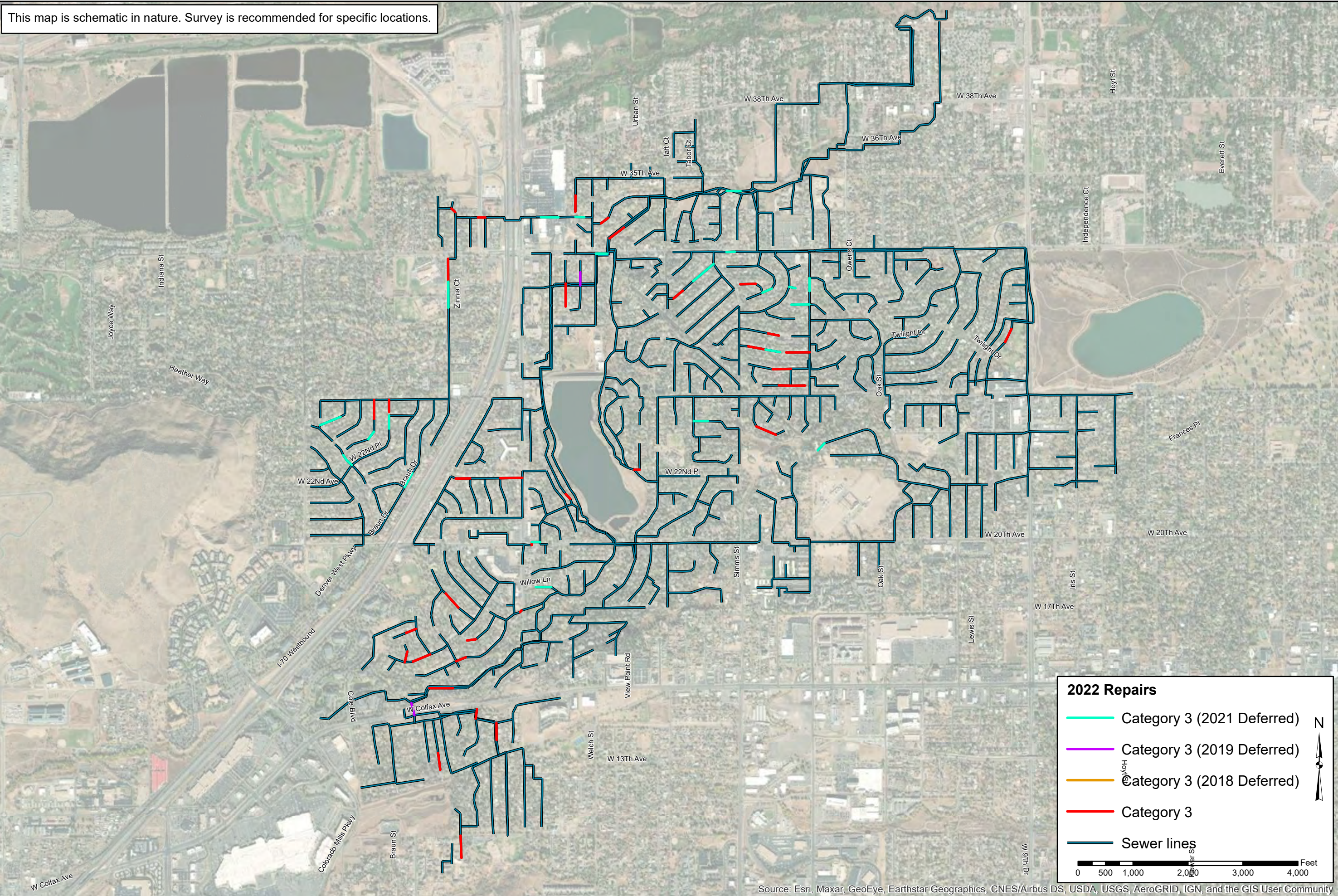








This map is schematic in nature. Survey is recommended for specific locations.



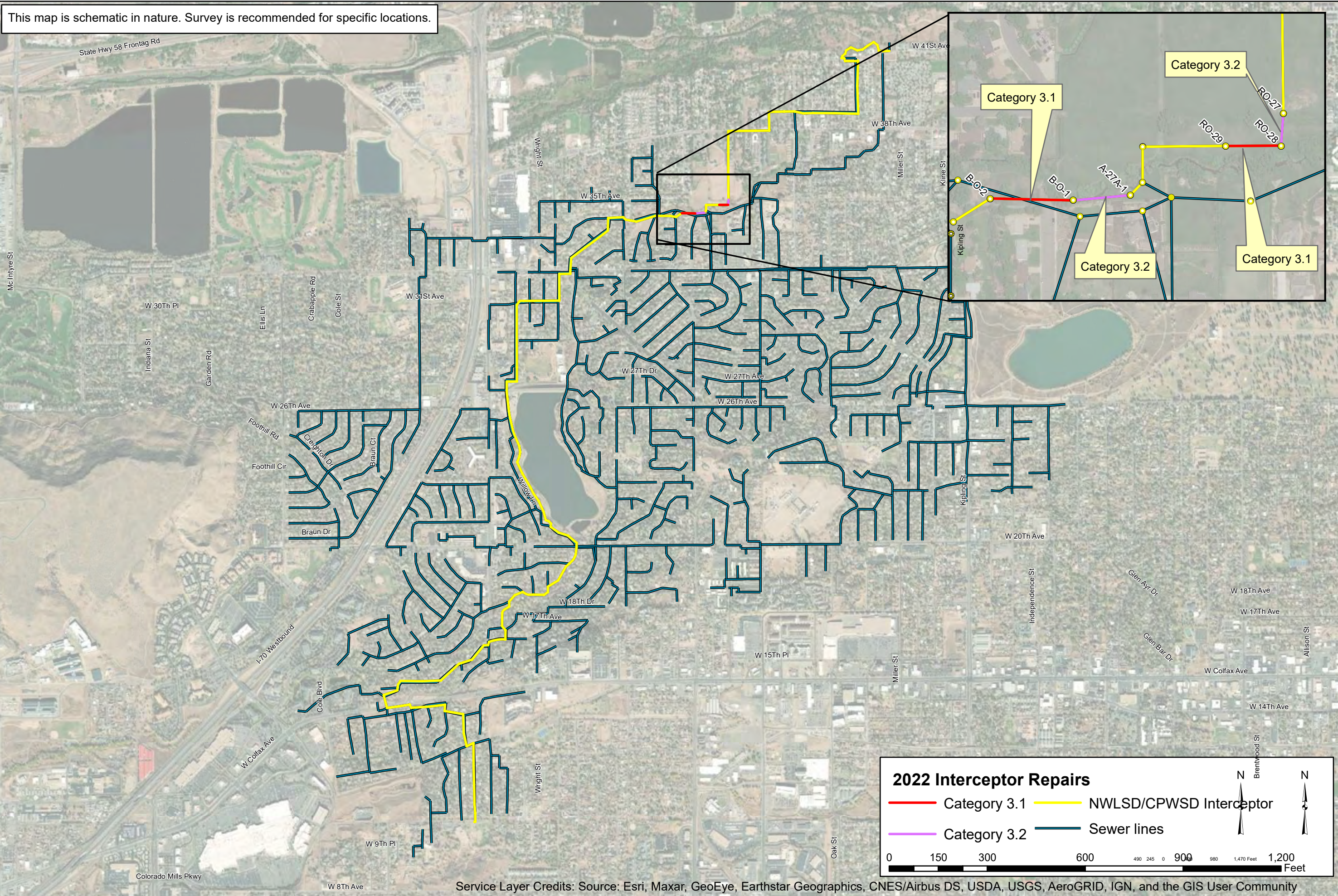
**Northwest Lakewood  
Sanitation District  
2018-2022 Category 3 CIP Repairs**

|                          |
|--------------------------|
| Date: August 23, 2022    |
| Design By: SEP           |
| Drawn By: SEP            |
| Principal in Charge: WPW |
| Sheet Number: <b>G</b>   |

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



This map is schematic in nature. Survey is recommended for specific locations.



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**Northwest Lakewood Sanitation District**  
2022 NWLSD/CPWSD Interceptor Repairs

|                          |
|--------------------------|
| Date: June 3, 2022       |
| Design By: SEP           |
| Drawn By: SEP            |
| Principal in Charge: WPW |
| Sheet Number:            |









