

FIVE YEAR ROAD MAINTENANCE PLAN

2018 – 2023

✓ FY 2018/2019

✓ FY 2019/2020

✓ FY 2020/2021

✓ FY 2021/2022

FY 2022/2023

2018 -2023 ROAD PLAN

2018 - 2019 Pavement Recommendations				
Neighborhood Maintenance	Area	Unit Cost / SF	Cost	
Willow Stream Drive Surrounding Area - Slurry Seal	305,800	\$ 0.16	\$	48,800
Buiter 18th Drive Surrounding Area - Slurry Seal	275,880	\$ 0.16	\$	44,141
1710 South Surrounding Area - Slurry Seal	230,000	\$ 0.16	\$	36,800
1100 East Surrounding Area - Slurry Seal	715,300	\$ 0.16	\$	114,448
Greenfield Surrounding Area - Slurry Seal	344,300	\$ 0.16	\$	55,120
Griffith Way - Chip Seal	112,500	\$ 0.43	\$	48,375
Prep Work for 2019 - 2020 Projects	1	\$ 186,361.20	\$	186,361
Sub Total			\$	566,045
Main Roadway Projects				
Maintenance Projects	Area	Unit Cost / SF	Cost	
3500 East - Chip Seal	252,000	\$ 0.45	\$	113,400
Capital Projects	Area	Unit Cost / SF	Cost	
Park Centre Drive - 2.5 inch Rotomill and Overlay with Pavement Fabric	74,500	\$ 2.25	\$	167,625
Sub Total			\$	281,025
TOTAL			\$	847,070.00

2019 - 2020 Pavement Recommendations				
Neighborhood Maintenance				
	Area	Unit Cost / SF	Cost	
BCC Road Surrounding Area	238,000	\$ 0.17	\$	39,600
Parkridge Drive Surrounding Area	668,000	\$ 0.17	\$	113,155
1300 East Surrounding Area	610,000	\$ 0.17	\$	103,504
1700 East Surrounding Area	440,000	\$ 0.17	\$	73,216
2700/2800 East Surrounding Area	1,850,000	\$ 0.17	\$	295,240
3500 East Surrounding Area	495,000	\$ 0.17	\$	75,122
Prep Work for 2020 - 2021 Projects	1	\$ 125,465.50	\$	125,466
Sub Total			\$	792,896
Main Roadway Projects				
	Area	Unit Cost / SF	Cost	
Capital Projects				
Scottish Drive - 2.5 Inch Rotomill/Fabric Overlay	229,000	\$ 2.60	\$	595,400
3000 East (Half) & Public Works Intersection - 2 inch Rotomill and Overlay	74,000	\$ 2.18	\$	161,616
Sub Total			\$	757,016
TOTAL			\$	1,549,912.00

2020 - 2021 Pavement Recommendations				
Neighborhood Maintenance	Area	Unit Cost / SF	Cost	
Oak Creek Drive Surrounding Area	1,107,000	\$ 0.17	\$ 188,731	
Kings Hill Surrounding Area	1,777,000	\$ 0.17	\$ 302,535	
Prep Work for 2021 - 2022 Projects	1	\$ 243,013.94	\$ 243,014	
Sub Total			\$ 734,280	
Main Roadway Projects	Area	Unit Cost / SF	Cost	
Maintenance Projects	Bengal Blvd Reclaimite	704,000	\$ 0.14	\$ 98,016
	Highland Drive Overlay	161,000	\$ 0.75	\$ 120,724
Capital Projects	1950 East Surrounding Area Overlay w/ rotomill	83,000	\$ 2.25	\$ 186,710
	Reindeer Drive Surrounding Area Overlay w/ rotomill	261,000	\$ 2.25	\$ 587,125
Sub Total			\$	\$ 992,595
TOTAL			\$	\$ 1,726,875.46

2021 - 2022 Pavement Recommendations				
Neighborhood Maintenance	Area	Unit Cost / SF	Cost	
6600 South Area - Slurry Seal	221,000	\$ 0.18	\$	39,825
Banbury Drive Area - Slurry Seal	471,000	\$ 0.18	\$	84,744
Pine View Area - Slurry Seal	270,000	\$ 0.18	\$	47,433
Stardown Ave. Area - Slurry Seal	200,000	\$ 0.18	\$	35,135
Deer Creek Area - Slurry Seal	341,000	\$ 0.18	\$	59,906
Stone Mill Area - Overlay	194,000	\$ 2.31	\$	447,817
BCC Road Slurry Seal	156,000	\$ 0.18	\$	28,076
Prep Work for 2022 - 2023	1	\$ 230,040.00	\$	230,040
Sub Total			\$	974,075
Main Roadway Projects				
Maintenance Projects	Area	Unit Cost / SF	Cost	
7200 South & 3000 East Chip Seal	302,000	\$ 0.42	\$	126,004
Capital Projects	Area	Unit Cost / SF	Cost	
Chip Seal & Slurry Seal - Danish Road	829,000	\$ 0.42	\$	137,269
Highland Drive - Rotomill and Overlay	210,000	\$ 2.58	\$	541,853
Sub Total			\$	805,127
TOTAL			\$	1,779,201.94

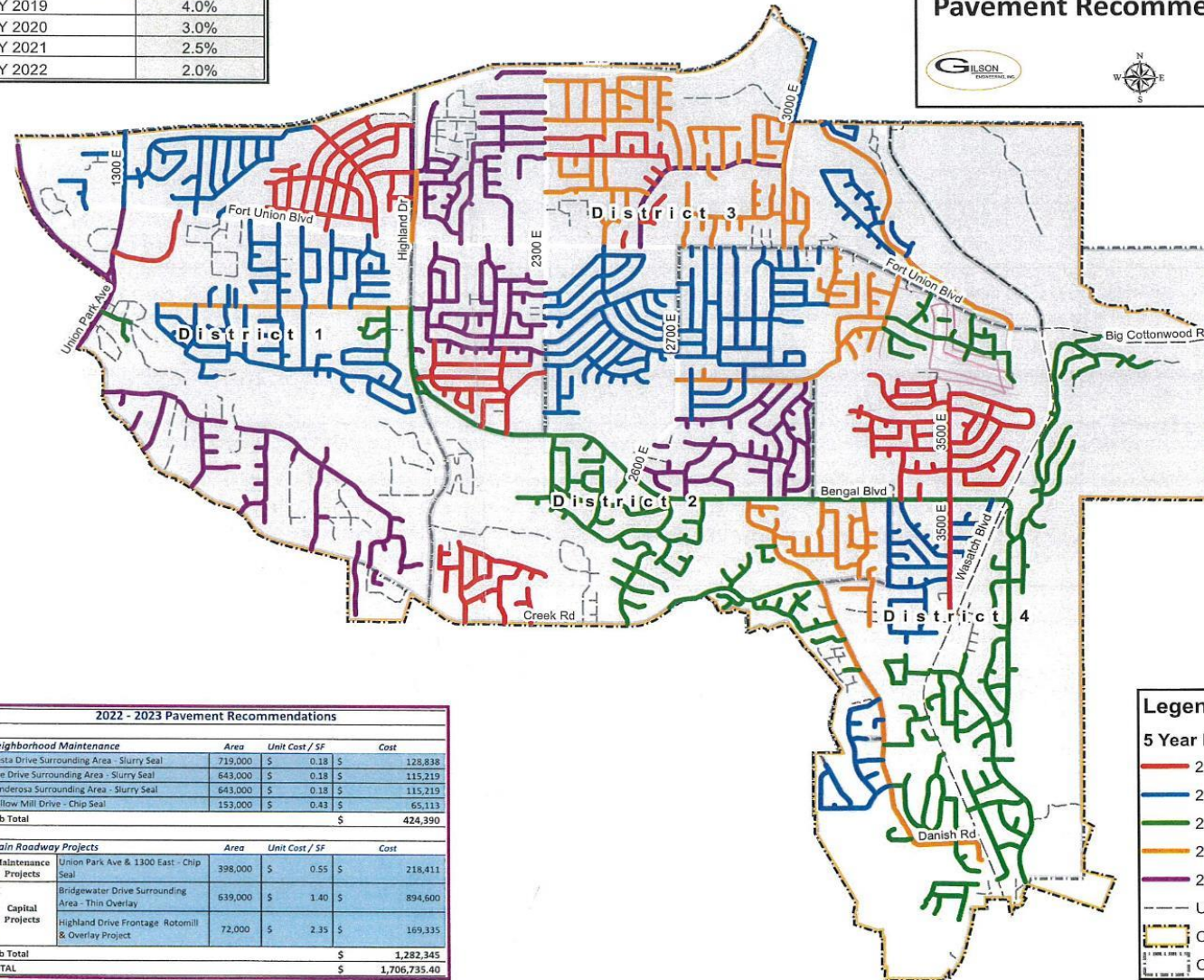
UDOT Construction Recommended Inflation Rate		
FY 2019	4.0%	
FY 2020	3.0%	
FY 2021	2.5%	
FY 2022	2.0%	

Five Year Pavement Recommendations

GILSON CONSULTING, INC.

W N E S

Cottonwood Heights
City of the Future



Legend

5 Year Plan

- 2018 - 2019
- 2019 - 2020
- 2020 - 2021
- 2021 - 2022
- 2022 - 2023
- UDOT & Private Roads
- City Boundary
- Council Districts

Types of Maintenance

Crack Sealing

Slurry Sealing

Chip Seals

Mill and Overlay

Complete Reconstruction

- Majority of work was focused on maintenance of surface
- Goal was to treat each road
- Slow deterioration

Areas not treated:

Prospector

Grandeur

Towne Drive

Pineview / Pine Rock

Bridgewater

- Determined that a surface treatment would be a waste of taxpayer dollars
- Where possible (budget) reconstructed
- Moved to first few years of 2023 2028 plan

**Main Roads:
Not in the original
plan but were done
with a one-time
funding program**

Ft Union Blvd

Bengal Blvd

Highland Drive

Wasatch Blvd (City Owned)

Park Center Drive

2300 East

2700 East

YEAR ONE

Assumptions:

For Surface Maintenance such as slurry seals, chip seals, crack seals:

- No sidewalk replacement
- No waterway changes
- No drive approaches (unless part of curb replacement)
- No ADA ramps

FY 2018/2019				
Maintenance Type	Area		Cost	
	Projected	Actual	Projected	Actual
Slurry	2,070,680	2,089,151	\$331,309	\$316,841
Mill and Overlay	74,500	82,000	167,625	171,131
Chip Seal	364,500	341,000	161,775	136,209
Reconstruction	0	0	0	0
Area Prep	---	---	\$186,361	\$185,000
Totals	2,509,680	2,512,151	\$847,070	\$809,182

YEAR TWO

Assumptions:

For Surface Maintenance such as slurry seals, chip seals, crack seals:

- No sidewalk replacement
- No waterway changes
- No drive approaches (unless part of curb replacement)
- No ADA ramps

FY 2019/2020				
Maintenance Type	Area		Cost	
	Projected	Actual	Projected	Actual
Slurry	4,011,000	3,850,000	\$667,430	\$514,188
Mill and Overlay	303,000	74,000	\$757,016	\$163,121
Chip Seal	0	0	0	0
Reconstruction	0	190,978	0	\$596,431
Area Prep	---	---	\$125,466	\$280,692
Totals	4,314,000	4,114,978	\$1,549,912	\$1,554,434

YEAR THREE

Assumptions:

For Surface Maintenance such as slurry seals, chip seals, crack seals:

- No sidewalk replacement
- No waterway changes
- No drive approaches (unless part of curb replacement)
- No ADA ramps

FY 2020/2021				
Maintenance Type	Area		Cost	
	Projected	Actual	Projected	Actual
Slurry	2,878,000	2,508,000	\$493,266	\$345,937
Mill and Overlay	344,000	0	\$773,835	0
Chip Seal	0	0	0	0
Reconstruction	0	341,900	0	\$1,018,859
Onyx/Reclamite	865,000	0	\$218,760	0
Area Prep	---	---	\$241,014	\$181,255
Totals	4,087,000	2,849,900	\$1,726,875	\$1,546,051

YEAR FOUR

Assumptions:

For Surface Maintenance such as slurry seals, chip seals, crack seals:

This year includes chip seals on 7200 South, 3000 East, and ???

FY 2021/2022				
Maintenance Type	Area		Cost	
	Projected	Actual	Projected	Actual
Slurry	1,689,000	---	\$296,719	\$258,183
Mill and Overlay	404,000	---	\$989,170	---
Chip Seal	631,000	0	\$263,272	---
Reconstruction	0	0	0	0
Area Prep	---	---	\$230,040	\$226,500
Totals	4,314,000	---	\$1,779,202	\$484,683

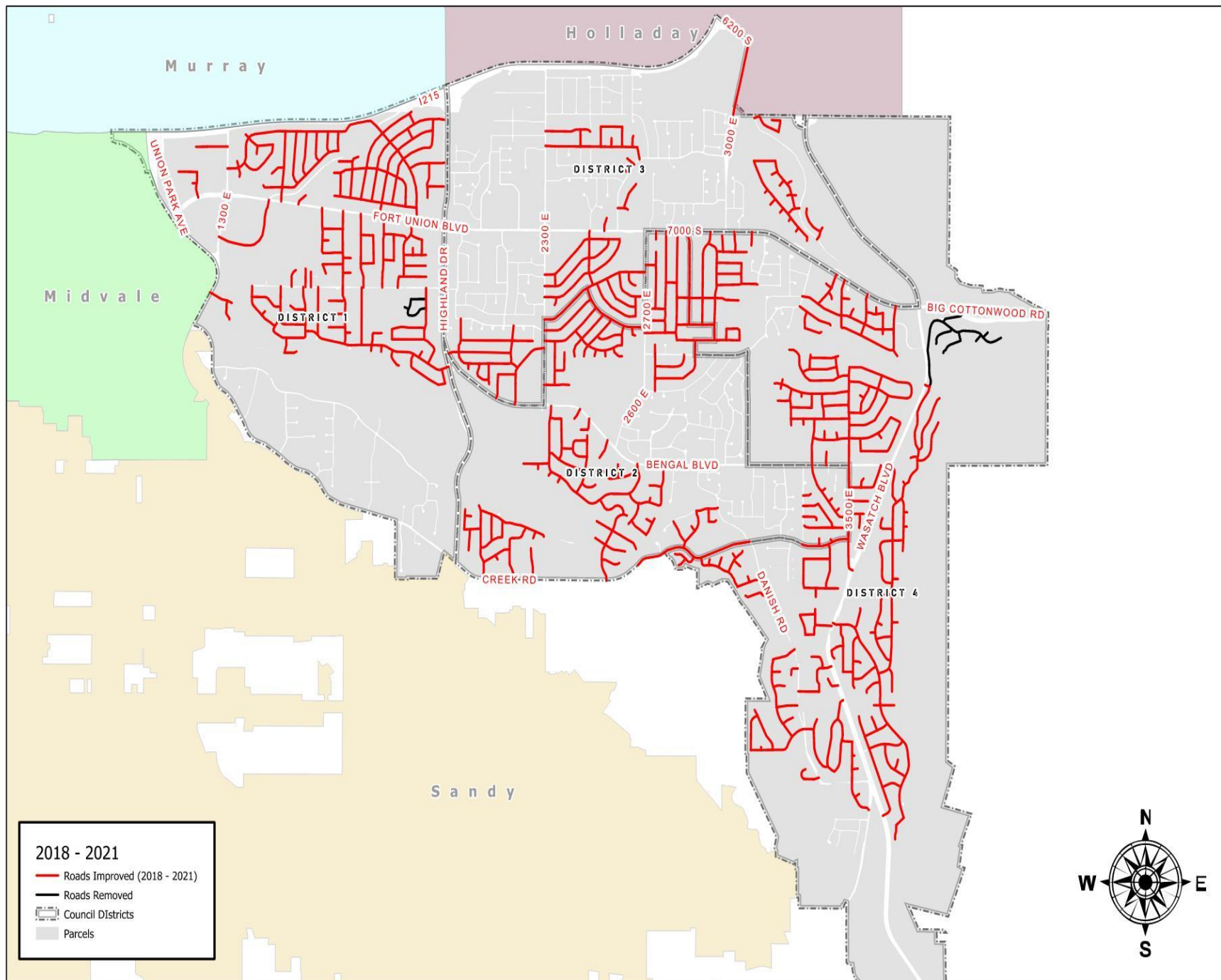
PROJECTS COMPLETED IN THE FIRST THREE YEARS



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Sources: Utah State AGRC
Cottonwood Heights
Salt Lake County

Cottonwood Heights
2277 E Bengal Boulevard
Cottonwood Heights, UT 84121
801-944-7000

Cottonwood Heights
Roadway Improvements
2018 - 2021



NEW FIVE-YEAR MAINTENANCE PLAN

Assumptions:

First few years, we have put in more reconstruction:

- Curb and gutter replacement
- Full depth reconstruction
(4"/8"/(12" bank run)/geofabric
- No sidewalk replacement
- Waterway changes
- Drive approaches
- ADA ramps
- Storm water inlet updates to new standard

