

CITY OF OSAGE BEACH SPECIAL MEETING

1000 City Parkway Osage Beach, MO 65065 573/302-2000 FAX 573/302-2039 www.osagebeach.org

TENTATIVE AGENDA

STRATEGIC PLANNING SESSION

August 5, 2020 - 8:30 AM CITY HALL

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

NEW BUSINESS

- A. Overview of Agenda, process and desired results
- B. Status Check and Future Outlook
- C. Goal Setting & Planning Where do we want to be tomorrow and how do we get there?
- D. Next Steps

ADJOURN

Tara Berreth, City Clerk 1000 City Parkway Osage Beach, MO 65065 573-302-2000 ex 1020

If any member of the public requires a specific accommodation as addressed by the Americans with Disabilities Act, please contact the City Clerk's office forty-eight hours in advance of the meeting at the above telephone number.

July 2019 Strategic Planning Recap

The Mayor and Board of Aldermen met in July 2019 for strategic planning. This was the third year in a row the group met in such a work session. Building from prior year sessions, the group revisited expectation of roles and responsibilities and discussed prior and current initiatives, tasks, and outcomes. The following is a summary outline of their work session held in July 2019.

Roles and Responsibilities:

Mayor

- Operational
- Carry out Board direction
- Leadership
- Voice of the Community
- Work with City Administrator to ensure standards
- Conduct Board meetings
- Visionary
- Peacemaker

Board of Aldermen

- Define Vision
- Represent District
- Look at the City as a whole
- Conduit to residents
- Implement Vision
- Problem finder
- Policymaker
- Stewards of resources
- Respect other views
- Participate / attend meetings

City Administrator

- Oversee Daily Operations
- Provide Point-of-View / Sounding Board
- Implement Goals
- Ensure Available Tools

Management Team

- Initiative
- Drive Accountability
- Stay Current
- Delegate / Knowledge share
- Motivate / Mentor
- Set Goals
- Follow through / Follow up / Communicate

All Staff

- Care
- Loyal to City
- Implement Vision
- Use available tools and systems (become proficient / use best practices)
- Exceed Customer Service Expectations
- Master their work
- Own their career development
- Measurement and Report Results

Community

- Volunteer
- Provide Point of View
- Attend Community Events
- Follow rules / laws
- Be Aware
- Proactive
- Attend meetings

What does the future look like?

- Best Looking / Appearances
- Amenities (For Community)
- Build-out Park System
- Know our profile Who are our visitors and residents

Priority Items and Themes

Based on the Board Strategic Planning held in July 2019, the following priorities were either added to or modified from previous planning sessions.

Economic Growth / Development:

Market Assessment and Growth

- Profile who Osage Beach visitors and citizens (residents) are
- Focus on Business Retention / Know our business community
- Fill Empty Buildings, Incentives, neighborhood revitalization efforts
- Buxton (or similar) to be finalized (assessment of capacity to complete)
- Need to determine specific direct to determine capacity need
- Partnerships to position the City to attract business and jobs

Revenue Options / Tax

- Tax Options and Timing Park, Public Safety, 911 Tax
- USE Tax Timing?
- Continuation of Revenue Option Analysis
- Internal fee assessment

Reduce GF Subsidy to other Funds

- Targeted evaluation Ambulance Service/partnership options
- Banking and Investments
- Fee increases in other funds
- Evaluation of 'money wasters'
- Increased marketing and PR focus in airports

Annexation for Growth

- Targeted Growth Redhead, Tan Tar A, Shorty Pants
- Focus in out-of-city extension of services (i.e. water / sewer)

Marketing

- Evaluate Community Promotions and Programs
- Using marketing \$\$ resourceful/effective; who is our target audiance
- Event Support funding
- Website (and Social Media) Analytics as a source of data

Serve the Customer:

Citizen Engagement / Input

- Use Community data to enhance
- Increased 'communication plan' (continue to be in process) wider range of platforms; social media, website enhancements, newsletter, press releases
- Citizen Academy
- Surveys for specific topics
- In process video and archiving

Enhance Transportation System

- Sidewalk Comprehensive Plan form a plan, ID what, where, how to enhance
- Address Aver Rd and Industrial Road how to enhance/reconstruct
- Define look / Clean and adequate intersections and interchanges / Define how, what, when of work
- OBSRD partnerships to enhance road system, public and private
- MODOT / LO partnership on bidding and project completion

City Hall

• City Hall sidewalk and parking lot infrastructure improvements / image of property

Develop Internally:

Investment in our People

- Supervisory Training
- Focus on Individual and Department Goals
- Police Operations & Analysis Report, What's next, Recommendations

Internal Performance Measures

- Merits and Follow Up Reporting
- PD Operations and Analysis Report What's next, Recommendations
- In process 911, Ambulance
- Focus in Goals
- PW Software Enhancements/Purchases Measure return on investment

Good Governance:

Citywide Asset Plan

- D & R plans are in place for all funds
- \$\$ Included in Reserve Policy guidelines

Enhanced Project Planning

- Fire Hydrant painting/maintenance planning
- Condemned building removal City's role, budgeted funds, best practice
- PW biding schedule/timing
- Project partnerships
- Job duty evaluations
- Asset usage tracking (parks)

Code Review

- Compliance process, steps, communication
- Enforcement vs. Building Code Responsibility / Financial
- Focus of timely review for all departments; Code changes
- Police Operations & Analysis Report highlighted areas of focus, What's next, Recommendations

Reporting

- Regular CA reporting
- Enhanced City Newsletter

Fiscal Responsibility and Priority Capital Investment through Budget

- Personnel Growth (wage) and O & M growth does not outpace revenue (incoming \$) growth
- Fiduciary Responsibility Bonded employees, Checks and Balances/policy creation/additions to City Code
- Workers' Compensation outlook
- Focus in the budget process and future planning
- Changes in practice to ensure checks & balances of managing budgets and contracts

Investment Plan/Policy

In process – draft creation by City Treasurer

Additional Items Identified To Be Resolved

- Citywide Trash
- Economic Incentives Housing / Universal Design
- Soccer Complex Cooperative Agreement, Bonding
- Concerns Use of resources regarding MODOT; MODOT Standard-Intersections, shoulders, etc.

Osage Beach FY2020 Operating Budget Fund Summary COVID-19 Budget Estimates (as of July 31, 2020) *Audited Beginning Balances

				Governme	ntal	Funds			
	GENERA	۱L F	UND	CIT F	UN	D	TRANSPORT	ΑΤΙ	ON FUND
	FY2020 Operating Budget		Budget Estimates	FY2020 Operating Budget		Budget Estimates	FY2020 Operating Budget		Budget Estimates
Cash & Equivalent Balance January 1, 2020*	\$ 2,032,070	\$	2,032,070	\$ 1,104,530	\$	1,104,530	\$ 4,604,239	\$	4,604,239
Restricted - Fund Reserve	1,415,764		1,415,764	-		-	2,878,542		2,878,542
Restricted - Other	20,414		20,414	683,667		683,667	1,043,686		1,043,686
Unrestricted	595,892		595,892	420,863		420,863	682,011		682,011
Revenue	\$ 7,502,730	\$	6,850,000	\$2,465,000	\$	2,295,000	\$3,158,900	\$	3,002,000
Expenditures									
Personnel Services	4,834,419		4,500,000	-			568,762		540,000
Operations & Maintenance	2,456,611		2,200,000	338,160		265,000	1,239,913		1,210,000
Capital Expenditures	199,378		120,000	-			1,923,934		2,250,000
Debt Service	216,908		216,908	-			-		-
Transfer to Other Funds	300,000		270,000	1,500,000		1,496,000	159,000		130,000
Total Expenditures	\$ 8,007,316	\$	7,306,908	\$ 1,838,160	\$	1,761,000	\$ 3,891,609	\$	4,130,000
Restricted - Fund Reserve	1,512,484		1,512,484	-		-	2,878,542		2,878,542
Restricted - Other	15,000		20,500	704,177		704,177	369,965		369,965
Unrestricted	-		42,178	1,027,193		934,353	623,023		227,732
Cash & Equivalent Balance December 31, 2020	\$ 1,527,484	\$	1,575,162	\$ 1,731,370	\$	1,638,530	\$ 3,871,530	\$	3,476,239

							Enterpris	se F	<u>unds</u>							
	WATER	FU	ND	SEWER	FUI	ND	AMBULAN	ICE	FUND	LEE C FINE A	IRP	ORT FUND	GI	RAND GLAIZE	AIR	PORT FUND
	FY2020			FY2020			FY2020			FY2020				FY2020		
	Operating Budget		Budget Estimates	Operating Budget		Budget Estimates	Operating Budget		Budget Estimates	Operating Budget		Budget Estimates		Operating Budget		Budget Estimates
Cash & Equivalent Balance	Budget		LStilliates	Duaget		LStilliates	Duugei		LStilliates	Budget		LStillates		Budget		LStillates
January 1, 2020*	\$ 3,258,197	\$	3,258,197	\$ 4,777,123	\$	4,777,123	\$ 65,137	\$	65,137	\$ 143,652	\$	143,652	\$	28,119	\$	28,119
Restricted - Fund Reserve	1,308,380		1,308,380	1,839,499		1,839,499	-		-	30,000		30,000		13,200		13,200
Restricted - Other	1,359,193		1,359,193	2,466,045		2,466,045	-		-	-		-		-		-
Unrestricted	590,624		590,624	471,579		471,579	65,137		65,137	113,652		113,652		14,919		14,919
Revenue	\$ 3,577,215	\$	3,505,000	\$2,797,750	\$	2,598,000	\$578,650		\$524,000	\$4,737,600	\$	4,740,000		\$309,200	\$	259,000
Expenditures																
Personnel Services	332,445		275,000	553,965		490,000	481,527		425,000	209,970		180,000		158,150		134,000
Operations & Maintenance	524,150		520,000	1,563,967		1,450,000	123,726		120,000	688,534		640,000		150,745		140,000
Capital Expenditures	265,134		650,000	292,934		270,000	-		1,315	4,000,000		4,058,000		-		1,080
Debt Service	2,669,135		2,669,135	688,800		688,800	22,241		22,241	-		-		-		-
Transfer to Other Funds	-			-			-		-	-		-		-		-
Total Expenditures	\$ 3,790,864	\$	4,114,135	\$ 3,099,666	\$	2,898,800	\$ 627,494	\$	568,556	\$ 4,898,504	\$	4,878,000	\$	308,895	\$	275,080
Restricted - Fund Reserve	1,572,446		1,572,446	1,859,499		1,859,499	-		-	-		-		17,500		12,039
Restricted - Other	1,132,715		1,076,616	2,388,629		2,388,629	-		-	-		-		-		-
Unrestricted Cash & Equivalent Balance	339,387		-	227,079		228,195	16,293		20,581	(17,252)		5,652		10,924		-
December 31, 2020	\$ 3,044,548	\$	2,649,062	\$ 4,475,207	\$	4,476,323	\$ 16,293	\$	20,581	\$ (17,252)	\$	5,652	\$	28,424	\$	12,039

			Compon	ent	Units		
	PREWITT'S PO FY2020 Operating Budget	DINT			DIERBERG FY2020 Operating Budget	TII	F FUND Budget Estimates
Cash & Equivalent Balance January 1, 2020*	\$ 2,922,823	\$	2,922,823	\$	513	\$	513
Restricted - Fund Reserve	-		-		-		-
Restricted - Other	2,922,823		2,922,823		513		513
Unrestricted	-		-		-		-
Revenue	\$ 2,422,000	\$	2,250,000		\$768,340	\$	715,000
Expenditures							
Personnel Services	-		-		-		-
Operations & Maintenance	28,000		28,000		7,600		7,600
Capital Expenditures	-		-		-		-
Debt Service	2,199,625		2,199,625		760,740		707,913
Transfer to Other Funds	-		-		-		-
Total Expenditures	\$ 2,227,625	\$	2,227,625	\$	768,340	\$	715,513
Restricted - Fund Reserve	-		-		-		-
Restricted - Other	3,117,198		2,945,198		513		-
Unrestricted Cash & Equivalent Balance December 31, 2020	\$ 3,117,198	\$	2,945,198	\$	513	\$	-

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ALL F	UNI	os	
FY2020		Decidence	
Operating Budget		Budget Estimate	
9			
\$ 18,936,403	\$	18,936,403	
7,485,385		7,485,385	
8,496,341		8,496,341	
2,954,677		2,954,677	
\$ 28,317,385	\$	26,738,000	-5.6%
7,139,238		6,544,000	-8.3%
7,121,406		6,580,600	-7.6%
6,681,380		7,350,395	10.0%
6,557,449		6,504,622	-0.8%
 1,959,000		1,896,000	-3.2%
\$ 29,458,473	\$	28,875,617	-2.0%
7,840,471		7,835,010	
7,728,197		7,505,085	
2,226,647		1,458,691	
\$ 17,795,315	\$	16,798,786	-5.6%

City of Osage Beach FY2021 - FY2026 Forecast - July 31, 2020

			City of Osuge E	Cucii i i Zuzi	12020 1 0100031	- July 31, 2020					
GENERAL FUND	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2021 Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast	FY2025 Forecast	FY2026 Forecast
Beginning Balances (includes Restricted \$\$)	2,660,099	2,410,083	1,882,876	1,985,214	2,031,323	1,574,323	879,703	(298,168)	(1,064,684)	(975,802)	(437,890)
Revenues \$	6,550,398 \$	6,883,875 \$	6,816,514 \$	6,929,804 \$	6,850,000 \$	7,204,080 \$	7,142,862 \$	7,337,399 \$	7,371,747 \$	7,515,962 \$	7,860,101
Personnel Operations & Maintenance Capital Debt Service	4,008,566 1,777,806 613,542 - 400,500	4,067,192 2,082,228 765,662 - 496,000	4,142,080 2,152,014 155,082 - 265,000	4,149,676 2,160,329 283,690 - 290,000	4,500,000 2,200,000 120,000 217,000 270,000	4,567,500 2,222,000 592,200 217,000 300,000	4,636,013 2,244,220 843,500 217,000 380,000	4,705,553 2,266,662 826,700 - 305,000	4,776,136 1,774,329 437,400 - 295,000	4,847,778 1,277,072 333,200 - 520,000	4,920,495 774,843 584,900 - 290,000
Transfers to Other Funds	400,300	490,000	·	290,000	270,000	300,000	360,000	303,000	295,000	520,000	290,000
Total Expenditures \$ NET Revenues/Expenditures \$	6,800,414 \$ (250,016) \$	7,411,082 \$ (527,207) \$	6,714,176 \$ 102,338 \$	6,883,695 \$ 46,109 \$	7,307,000 \$ (457,000) \$	7,898,700 \$ (694,620) \$	8,320,733 \$ (1,177,871) \$	8,103,915 \$ (766,516) \$	7,282,865 \$ 88,882 \$	6,978,050 \$ 537,912 \$	6,570,238 1,289,863
Ending Balances (includes Restricted \$\$)	2,410,083	1,882,876	1,985,214	2,031,323	1,574,323	879,703	(298,168)	(1,064,684)	(975,802)	(437,890)	851,973
CAPITAL IMPROVEMENT FUND (CIT)	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2021 Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast	FY2025 Forecast	FY2026 Forecast
Beginning Balances (includes Restricted \$\$)	627,226	621,492	754,315	563,822	1,104,530	1,638,530	1,494,130	1,590,142	2,574,394	4,497,576	6,972,441
Revenues \$	2,268,311 \$	2,398,371 \$	2,349,078 \$	2,384,304 \$	2,295,000 \$	2,340,900 \$	2,387,718 \$	2,435,472 \$	2,484,182 \$	2,533,865 \$	2,584,543
Personnel Operations & Maintenance Capital	303,045	330,548	339,571	331,030	265,000 -	270,300 -	275,706 -	281,220 -	- -	- -	- -
Debt Service Transfers to Other Funds	1,971,000	1,935,000	2,200,000	1,512,566	- 1,496,000	2,215,000	2,016,000	1,170,000	- 561,000	- 59,000	- 254,000
Total Expenditures \$	2,274,045 \$	2,265,548 \$	2,539,571 \$	1,843,596 \$	1,761,000 \$	2,485,300 \$	2,291,706 \$	1,451,220 \$	561,000 \$	59,000 \$	254,000
NET Revenues/Expenditures \$	(5,734) \$	132,823 \$	(190,493) \$	540,708 \$	534,000 \$	(144,400) \$	96,012 \$	984,252 \$	1,923,182 \$	2,474,865 \$	2,330,543
Ending Balances (includes Restricted \$\$)	621,492	754,315	563,822	1,104,530	1,638,530	1,494,130	1,590,142	2,574,394	4,497,576	6,972,441	9,302,984
		=1/00/4=	=1/00/40	=1/00/10	EV0000	FY2021	EVANAA	EV0000	EV0004	E)/000E	EX.0000
TRANSPORTATION FUND	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast	FY2025 Forecast	FY2026 Forecast
TRANSPORTATION FUND Beginning Balances (includes Restricted \$\$)											
	Actual	Actual	Actual	Actual	Budget	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
Beginning Balances (includes Restricted \$\$) Revenues _\$ Personnel Operations & Maintenance Capital	Actual 5,461,543	5,003,090 3,114,739 \$ 526,905 899,973 1,320,138	Actual 5,370,813	Actual 5,173,805	4,604,239	3,476,239	3,105,219	3,093,944	2,577,854	2,373,397	Forecast 472,951
Beginning Balances (includes Restricted \$\$) Revenues _\$ Personnel Operations & Maintenance	5,461,543 3,182,613 \$ 524,132 740,728	5,003,090 3,114,739 \$ 526,905 899,973	5,370,813 3,054,873 \$ 536,339 1,767,353	5,173,805 3,037,810 \$ 579,894 1,569,819	8udget 4,604,239 3,002,000 \$ 540,000 1,210,000	3,476,239 2,666,280 \$ 593,100 1,234,200	3,105,219 2,719,606 \$ 601,997 1,258,884	3,093,944 2,773,998 \$ 611,026 1,284,062	2,577,854 2,829,478 \$ 620,192 1,963,743	2,373,397 2,886,067 \$ 629,495 1,747,018	Forecast 472,951 2,943,789 638,937 1,525,958
Beginning Balances (includes Restricted \$\$) Revenues _\$ Personnel Operations & Maintenance Capital Debt Service	5,461,543 3,182,613 \$ 524,132 740,728	5,003,090 3,114,739 \$ 526,905 899,973 1,320,138	5,370,813 3,054,873 \$ 536,339 1,767,353 811,189	5,173,805 3,037,810 \$ 579,894 1,569,819 1,136,663	8udget 4,604,239 3,002,000 \$ 540,000 1,210,000 2,250,000	3,476,239 2,666,280 \$ 593,100 1,234,200 1,090,000	3,105,219 2,719,606 \$ 601,997 1,258,884 650,000	3,093,944 2,773,998 \$ 611,026 1,284,062 1,175,000	2,577,854 2,829,478 \$ 620,192 1,963,743 310,000	2,373,397 2,886,067 \$ 629,495 1,747,018 2,250,000	472,951 2,943,789 638,937 1,525,958 450,000
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$	5,461,543 3,182,613 \$ 524,132 740,728 2,376,206 - 3,641,066 \$	Actual 5,003,090 3,114,739 \$ 526,905 899,973 1,320,138 - 2,747,016 \$	Actual 5,370,813 3,054,873 \$ 536,339 1,767,353 811,189 - 137,000 3,251,881 \$	5,173,805 3,037,810 \$ 579,894 1,569,819 1,136,663	Budget 4,604,239 3,002,000 \$ 540,000 1,210,000 2,250,000 - 130,000 4,130,000 \$	3,476,239 2,666,280 \$ 593,100 1,234,200 1,090,000 - 120,000 3,037,300 \$	3,105,219 2,719,606 \$ 601,997 1,258,884 650,000 220,000 2,730,881 \$	3,093,944 2,773,998 \$ 611,026 1,284,062 1,175,000 - 220,000 3,290,088 \$	2,577,854 2,829,478 \$ 620,192 1,963,743 310,000 - 140,000 3,033,935 \$	2,373,397 2,886,067 \$ 629,495 1,747,018 2,250,000 - 160,000 4,786,512 \$	472,951 2,943,789 638,937 1,525,958 450,000 145,000 2,759,895
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$	5,461,543 3,182,613 \$ 524,132 740,728 2,376,206 3,641,066 \$ (458,453) \$	5,003,090 3,114,739 \$ 526,905 899,973 1,320,138 - 2,747,016 \$ 367,723 \$	5,370,813 3,054,873 \$ 536,339 1,767,353 811,189 - 137,000 3,251,881 \$ (197,008) \$	5,173,805 3,037,810 \$ 579,894 1,569,819 1,136,663 - 321,000 3,607,376 \$ (569,566) \$	8udget 4,604,239 3,002,000 \$ 540,000 1,210,000 2,250,000 - 130,000 4,130,000 \$ (1,128,000) \$	3,476,239 2,666,280 \$ 593,100 1,234,200 1,090,000 - 120,000 3,037,300 \$ (371,020) \$	3,105,219 2,719,606 \$ 601,997 1,258,884 650,000 - 220,000 2,730,881 \$ (11,275) \$	3,093,944 2,773,998 \$ 611,026 1,284,062 1,175,000 - 220,000 3,290,088 \$ (516,090) \$	2,577,854 2,829,478 \$ 620,192 1,963,743 310,000 - 140,000 3,033,935 \$ (204,457) \$	2,373,397 2,886,067 \$ 629,495 1,747,018 2,250,000 - 160,000 4,786,512 \$ (1,900,445) \$	Forecast 472,951 2,943,789 638,937 1,525,958 450,000 145,000 2,759,895 183,893
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$)	Actual 5,461,543 3,182,613 \$ 524,132 740,728 2,376,206 - 3,641,066 \$ (458,453) \$ 5,003,090 FY2016	5,003,090 3,114,739 \$ 526,905 899,973 1,320,138 2,747,016 \$ 367,723 \$ 5,370,813	5,370,813 3,054,873 \$ 536,339 1,767,353 811,189 - 137,000 3,251,881 \$ (197,008) \$ 5,173,805	5,173,805 3,037,810 \$ 579,894 1,569,819 1,136,663 - 321,000 3,607,376 \$ (569,566) \$ 4,604,239	Budget 4,604,239 3,002,000 \$ 540,000 1,210,000 2,250,000 - 130,000 4,130,000 \$ (1,128,000) \$ 3,476,239 FY2020	3,476,239 2,666,280 \$ 593,100 1,234,200 1,090,000 120,000 3,037,300 \$ (371,020) \$ 3,105,219 FY2021	3,105,219 2,719,606 \$ 601,997 1,258,884 650,000 2,730,881 \$ (11,275) \$ 3,093,944 FY2022	3,093,944 2,773,998 \$ 611,026 1,284,062 1,175,000 220,000 3,290,088 \$ (516,090) \$ 2,577,854	2,577,854 2,829,478 \$ 620,192 1,963,743 310,000 - 140,000 3,033,935 \$ (204,457) \$ 2,373,397	2,373,397 2,886,067 \$ 629,495 1,747,018 2,250,000 - 160,000 4,786,512 \$ (1,900,445) \$ 472,951	Forecast 472,951 2,943,789 638,937 1,525,958 450,000 145,000 2,759,895 183,893 656,845 FY2026
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) WATER FUND	Actual 5,461,543 3,182,613 \$ 524,132 740,728 2,376,206 - 3,641,066 \$ (458,453) \$ 5,003,090 FY2016 Actual	Actual 5,003,090 3,114,739 \$ 526,905 899,973 1,320,138 2,747,016 \$ 367,723 \$ 5,370,813 FY2017 Actual	Actual 5,370,813 3,054,873 \$ 536,339 1,767,353 811,189 - 137,000 3,251,881 \$ (197,008) \$ 5,173,805 FY2018 Actual	Actual 5,173,805 3,037,810 \$ 579,894 1,569,819 1,136,663 321,000 3,607,376 \$ (569,566) \$ 4,604,239 FY2019 Actual	Budget 4,604,239 3,002,000 \$ 540,000 1,210,000 2,250,000 - 130,000 4,130,000 \$ (1,128,000) \$ 3,476,239 FY2020 Budget	3,476,239 2,666,280 \$ 593,100 1,234,200 1,090,000 - 120,000 3,037,300 \$ (371,020) \$ 3,105,219 FY2021 Forecast	3,105,219 2,719,606 \$ 601,997 1,258,884 650,000 220,000 2,730,881 \$ (11,275) \$ 3,093,944 FY2022 Forecast	3,093,944 2,773,998 \$ 611,026 1,284,062 1,175,000 220,000 3,290,088 \$ (516,090) \$ 2,577,854 FY2023 Forecast	2,577,854 2,829,478 \$ 620,192 1,963,743 310,000 140,000 3,033,935 \$ (204,457) \$ 2,373,397 FY2024 Forecast	2,373,397 2,886,067 \$ 629,495 1,747,018 2,250,000	Forecast 472,951 2,943,789 638,937 1,525,958 450,000 145,000 2,759,895 183,893 656,845 FY2026 Forecast
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) WATER FUND Beginning Balances (includes Restricted \$\$)	Actual 5,461,543 3,182,613 \$ 524,132 740,728 2,376,206 - 3,641,066 (458,453) 5,003,090 FY2016 Actual 2,939,355	Actual 5,003,090 3,114,739 \$ 526,905 899,973 1,320,138 2,747,016 \$ 367,723 \$ 5,370,813 FY2017 Actual 2,757,548	Actual 5,370,813 3,054,873 \$ 536,339 1,767,353 811,189 - 137,000 3,251,881 \$ (197,008) \$ 5,173,805 FY2018 Actual 2,980,646	Actual 5,173,805 3,037,810 \$ 579,894 1,569,819 1,136,663 - 321,000 3,607,376 \$ (569,566) \$ 4,604,239 FY2019 Actual 3,609,908	Budget 4,604,239 3,002,000 \$ 540,000 1,210,000 2,250,000 4,130,000 4,130,000 \$ (1,128,000) \$ 3,476,239 FY2020 Budget 3,258,197	3,476,239 2,666,280 \$ 593,100 1,234,200 1,090,000 3,037,300 \$ (371,020) \$ 3,105,219 FY2021 Forecast 2,649,062	3,105,219 2,719,606 \$ 601,997 1,258,884 650,000 2,730,881 \$ (11,275) \$ 3,093,944 FY2022 Forecast 2,128,637	Forecast 3,093,944 2,773,998 \$ 611,026 1,284,062 1,175,000 220,000 3,290,088 \$ (516,090) \$ 2,577,854 FY2023 Forecast 1,627,774	2,577,854 2,829,478 \$ 620,192 1,963,743 310,000	2,373,397 2,886,067 \$ 629,495 1,747,018 2,250,000 4,786,512 \$ (1,900,445) \$ 472,951 FY2025 Forecast 1,978,768	Forecast 472,951 2,943,789 638,937 1,525,958 450,000 145,000 2,759,895 183,893 656,845 FY2026 Forecast 2,960,061
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) WATER FUND Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service	Actual 5,461,543 3,182,613 \$ 524,132 740,728 2,376,206 3,641,066 (458,453) \$ 5,003,090 FY2016 Actual 2,939,355 3,802,637 \$ 414,989 295,930 532,595 2,740,930	Actual 5,003,090 3,114,739 \$ 526,905 899,973 1,320,138	Actual 5,370,813 3,054,873 \$ 536,339 1,767,353 811,189 - 137,000 3,251,881 \$ (197,008) \$ 5,173,805 FY2018 Actual 2,980,646 4,455,620 \$ 442,942 368,719 311,254 2,703,443	5,173,805 3,037,810 \$ 579,894 1,569,819 1,136,663 321,000 3,607,376 \$ (569,566) \$ 4,604,239 FY2019 Actual 3,609,908 3,720,564 \$ 423,637 337,172 620,570 2,690,896	Budget 4,604,239 3,002,000 \$ 540,000 1,210,000 2,250,000 4,130,000 \$ (1,128,000) \$ 3,476,239 FY2020 Budget 3,258,197 3,505,000 \$ 275,000 520,000 650,000 2,669,135	\$\frac{3,476,239}{2,666,280} \\$ \frac{593,100}{1,234,200} \\ 1,090,000 \\ 3,037,300 \\$ (371,020) \\$ 3,105,219 \textbf{FY2021} \\ Forecast \\ 2,649,062 \\ 3,524,100 \\$ 354,125 \\ 530,400 \\ 500,000 \\ 2,660,000	3,105,219 2,719,606 \$ 601,997 1,258,884 650,000 2,730,881 \$ (11,275) \$ 3,093,944 FY2022 Forecast 2,128,637 3,543,582 \$ 359,437 541,008 500,000 2,644,000	Forecast 3,093,944 2,773,998 \$ 611,026 1,284,062 1,175,000 220,000 3,290,088 \$ (516,090) \$ 2,577,854 FY2023 Forecast 1,627,774 2,645,454 \$ 364,828 551,828 500,000 900,000	2,577,854 2,829,478 \$ 620,192 1,963,743 310,000 3,033,935 \$ (204,457) \$ 2,373,397 FY2024 Forecast 1,956,571 2,545,363 \$ 370,301 562,865 500,000 1,090,000	2,373,397 2,886,067 \$ 629,495 1,747,018 2,250,000 4,786,512 \$ (1,900,445) \$ 472,951 FY2025 Forecast 1,978,768 2,596,270 \$ 375,855 574,122 500,000 165,000	Forecast 472,951 2,943,789 638,937 1,525,958 450,000 2,759,895 183,893 656,845 FY2026 Forecast 2,960,061 2,648,195 381,493 585,604 500,000 160,000

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SEWER FUND	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2021 Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast	FY2025 Forecast	FY2026 Forecast
Beginning Balances (includes Restricted \$\$)	2,939,355	3,120,802	3,014,379	2,881,681	4,777,123	4,476,323	4,282,533	4,108,769	4,268,354	4,452,620	4,168,103
Revenues \$	3,013,567 \$	3,005,929 \$	2,757,255 \$	2,937,236 \$	2,598,000 \$	3,129,560 \$	3,171,751 \$	3,224,986 \$	3,279,286 \$	2,844,872 \$	2,901,769
Personnel	519,774	574,064	601,274	658,984	490,000	572,350	580,935	589,649	598,494	607,471	616,583
Operations & Maintenance	1,262,380	1,363,911	1,319,992	1,427,352	1,450,000	1,479,000	1,508,580	1,538,752	1,569,527	1,600,917	1,632,936
Capital Debt Service	294,753 755,213	432,510 741,867	247,864 720,823	236,968 702,842	270,000 688,800	600,000 672,000	600,000 656,000	600,000 337,000	600,000 327,000	600,000 321,000	600,000
Transfers to Other Funds	-	-	-	-	-	-	-	-	-	-	<u> </u>
Total Expenditures \$	2,832,120 \$	3,112,352 \$	2,889,953 \$	3,026,146 \$	2,898,800 \$	3,323,350 \$	3,345,515 \$	3,065,401 \$	3,095,021 \$	3,129,389 \$	2,849,519
NET Revenues/Expenditures \$	181,447 \$	(106,423) \$	(132,698) \$	(88,910) \$	(300,800) \$	(193,790) \$	(173,764) \$	159,585 \$	184,265 \$	(284,517) \$	52,250
Ending Balances (includes Restricted \$\$)	3,120,802	3,014,379	2,881,681	2,792,771	4,476,323	4,282,533	4,108,769	4,268,354	4,452,620	4,168,103	4,220,353
AMBULANCE FUND	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2021 Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast	FY2025 Forecast	FY2026 Forecast
Beginning Balances (includes Restricted \$\$)	124,480	68,426	111,073	66,663	65,137	20,581	5,045	3,280	9,395	5,218	2,221
Revenues \$	528,469 \$	653,356 \$	538,582 \$	565,951 \$	524,000 \$	564,480 \$	655,170 \$	591,073 \$	592,194 \$	828,538 \$	610,109
Personnel	418,800	422,728	425,246	418,447	425,000	431,375	437,846	444,413	451,080	457,846	464,713
Operations & Maintenance Capital	119,493 15,989	113,238 44,502	125,542 1,963	120,854 1,086	120,000 1,315	122,400 4,000	124,848 72,000	127,345 13,200	129,892 15,400	132,490 241,200	135,139 8,400
Debt Service	30,241	30,241	30,241	27,090	22,241	22,241	22,241	-	-	,	-
Transfers to Other Funds				<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u>-</u>	-	<u> </u>
Total Expenditures \$ NET Revenues/Expenditures \$	584,523 \$ (56,054) \$	610,709 \$ 42,647 \$	582,992 \$ (44,410) \$	567,477 \$ (1,526) \$	568,556 \$ (44,556) \$	580,016 \$ (15,536) \$	656,935 \$ (1,765) \$	584,958 \$ 6,115 \$	596,371 \$ (4,177) \$	831,535 \$ (2,997) \$	608,253 1,856
Ending Balances (includes Restricted \$\$)	68,426	111,073	66,663	65,137	20,581	5,045	3,280	9,395	5,218	2,221	4,077
LEE C FINE AIRPORT FUND	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
LEE C FINE AIRPORT FUND	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2021 Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast	FY2025 Forecast	FY2026 Forecast
LEE C FINE AIRPORT FUND Beginning Balances (includes Restricted \$\$)											
	Actual	Actual	Actual	Actual	Budget	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
Beginning Balances (includes Restricted \$\$) Revenues _\$ Personnel	Actual 124,480 1,146,514 \$ 165,932	Actual 128,709 2,393,479 \$ 176,171	(73,807) 1,145,825 \$ 187,266	Actual (282,411) 2,741,764 \$ 197,090	143,652 4,740,000 \$ 180,000	5,652 1,220,760 \$ 182,700	28,912 983,875 \$ 185,441	4,491 1,176,353 \$ 188,222	1,548 961,200 \$ 191,045	62,646 980,424 \$ 193,911	117,547 1,000,032 196,820
Beginning Balances (includes Restricted \$\$) Revenues _\$ Personnel Operations & Maintenance	Actual 124,480 1,146,514 \$ 165,932 477,511	Actual 128,709 2,393,479 \$ 176,171 504,638	(73,807) 1,145,825 \$ 187,266 682,101	Actual (282,411) 2,741,764 \$ 197,090 571,364	143,652 4,740,000 \$ 180,000 640,000	5,652 1,220,760 \$ 182,700 652,800	28,912 983,875 \$ 185,441 665,856	4,491 1,176,353 \$ 188,222 679,173	1,548 961,200 \$ 191,045 692,757	62,646 980,424 \$ 193,911 706,612	117,547 1,000,032 196,820 720,744
Beginning Balances (includes Restricted \$\$) Revenues _\$ Personnel	Actual 124,480 1,146,514 \$ 165,932	Actual 128,709 2,393,479 \$ 176,171	(73,807) 1,145,825 \$ 187,266	Actual (282,411) 2,741,764 \$ 197,090	143,652 4,740,000 \$ 180,000	5,652 1,220,760 \$ 182,700	28,912 983,875 \$ 185,441	4,491 1,176,353 \$ 188,222	1,548 961,200 \$ 191,045	62,646 980,424 \$ 193,911	117,547 1,000,032 196,820
Beginning Balances (includes Restricted \$\$) Revenues _\$ Personnel Operations & Maintenance Capital	Actual 124,480 1,146,514 \$ 165,932 477,511 498,842	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021	(73,807) 1,145,825 \$ 187,266 682,101	Actual (282,411) 2,741,764 \$ 197,090 571,364	143,652 4,740,000 \$ 180,000 640,000	5,652 1,220,760 \$ 182,700 652,800	28,912 983,875 \$ 185,441 665,856 157,000	4,491 1,176,353 \$ 188,222 679,173	1,548 961,200 \$ 191,045 692,757	62,646 980,424 \$ 193,911 706,612 25,000	117,547 1,000,032 196,820 720,744
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$	Actual 124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$	73,807) 1,145,825 \$ 187,266 682,101 485,062 1,354,429 \$	(282,411) 2,741,764 \$ 197,090 571,364 1,736,468 2,504,922 \$	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$	5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$	28,912 983,875 \$ 185,441 665,856 157,000 - 1,008,297 \$	4,491 1,176,353 \$ 188,222 679,173 311,900	1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$	62,646 980,424 \$ 193,911 706,612 25,000 - 925,523 \$	117,547 1,000,032 196,820 720,744 15,600
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds	124,480 1,146,514 \$ 165,932 477,511 498,842	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165	(73,807) 1,145,825 \$ 187,266 682,101 485,062	(282,411) 2,741,764 \$ 197,090 571,364 1,736,468	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000	5,652 1,220,760 \$ 182,700 652,800 362,000	983,875 \$ 185,441 665,856 157,000	4,491 1,176,353 \$ 188,222 679,173 311,900	1,548 961,200 \$ 191,045 692,757 16,300	62,646 980,424 \$ 193,911 706,612 25,000	117,547 1,000,032 196,820 720,744 15,600
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$	Actual 124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$ 4,229 \$ 128,709 FY2016	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017	(73,807) 1,145,825 \$ 187,266 682,101 485,062 1,354,429 \$ (208,604) \$ (282,411) FY2018	(282,411) 2,741,764 \$ 197,090 571,364 1,736,468 2,504,922 \$ 236,842 \$ (45,569) FY2019	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652	5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912	Porecast 28,912 983,875 \$ 185,441 665,856 157,000 1,008,297 \$ (24,421) \$ 4,491 FY2022	4,491 1,176,353 \$ 188,222 679,173 311,900 1,179,295 \$ (2,943) \$ 1,548 FY2023	1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 \$ 54,901 \$ 117,547 FY2025	117,547 1,000,032 196,820 720,744 15,600 - - 933,164 66,868 184,415
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$)	124,480 1,146,514 \$ 165,932 477,511 498,842 - - 1,142,285 \$ 4,229 \$ 128,709	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual	Actual (73,807) 1,145,825 \$ 187,266 682,101 485,062 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual	(282,411) 2,741,764 \$ 197,090 571,364 1,736,468 2,504,922 \$ 236,842 \$ (45,569)	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652	5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912	28,912 983,875 \$ 185,441 665,856 157,000 1,008,297 \$ (24,421) \$ 4,491	4,491 1,176,353 \$ 188,222 679,173 311,900 - - 1,179,295 \$ (2,943) \$ 1,548	1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646	Forecast 62,646 980,424 \$ 193,911 706,612 25,000 925,523 \$ 54,901 \$ 117,547	117,547 1,000,032 196,820 720,744 15,600 - - 933,164 66,868 184,415
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) GRAND GLAIZE AIRPORT FUND Beginning Balances (includes Restricted \$\$)	Actual 124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$ 4,229 \$ 128,709 FY2016 Actual 25,676	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual (375)	Actual (73,807) 1,145,825 \$ 187,266 682,101 485,062 - 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual (5,602)	2,741,764 \$ 197,090 571,364 1,736,468 2,504,922 \$ 236,842 \$ (45,569) FY2019 Actual (943)	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652 FY2020 Budget 28,119	5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912 FY2021 Forecast 12,039	Porecast 28,912 983,875 \$ 185,441 665,856 157,000 1,008,297 \$ (24,421) \$ 4,491 FY2022 Forecast 8,269	4,491 1,176,353 \$ 188,222 679,173 311,900 1,179,295 \$ (2,943) \$ 1,548 FY2023 Forecast 3,704	Forecast 1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646 FY2024 Forecast 9,417	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 \$ 54,901 \$ 117,547 FY2025 Forecast 5,234	117,547 1,000,032 196,820 720,744 15,600 - 933,164 66,868 184,415 FY2026 Forecast 9,127
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) GRAND GLAIZE AIRPORT FUND Beginning Balances (includes Restricted \$\$) Revenues \$	Actual 124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$ 4,229 \$ 128,709 FY2016 Actual 25,676 399,885 \$	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual (375) 286,559 \$	Actual (73,807) 1,145,825 \$ 187,266 682,101 485,062 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual (5,602) 514,679 \$	Actual (282,411) 2,741,764 \$ 197,090 571,364 1,736,468	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652 FY2020 Budget 28,119 259,000 \$	Forecast 5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912 FY2021 Forecast 12,039 275,040 \$	Porecast 28,912 983,875 \$ 185,441 665,856 157,000 - 1,008,297 \$ (24,421) \$ 4,491 FY2022 Forecast 8,269 671,141 \$	Forecast 4,491 1,176,353 \$ 188,222 679,173 311,900 1,179,295 \$ (2,943) \$ 1,548 FY2023 Forecast 3,704 381,304 \$	961,200 \$ 191,045 692,757 16,300 - 900,102 \$ 61,098 \$ 62,646 FY2024 Forecast 9,417 304,530 \$	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 \$ 54,901 \$ 117,547 FY2025 Forecast 5,234 327,820 \$	Forecast 117,547 1,000,032 196,820 720,744 15,600 933,164 66,868 184,415 FY2026 Forecast 9,127 316,177
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) GRAND GLAIZE AIRPORT FUND Beginning Balances (includes Restricted \$\$)	Actual 124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$ 4,229 \$ 128,709 FY2016 Actual 25,676	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual (375)	Actual (73,807) 1,145,825 \$ 187,266 682,101 485,062 - 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual (5,602)	2,741,764 \$ 197,090 571,364 1,736,468 2,504,922 \$ 236,842 \$ (45,569) FY2019 Actual (943)	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652 FY2020 Budget 28,119	5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912 FY2021 Forecast 12,039	Porecast 28,912 983,875 \$ 185,441 665,856 157,000 1,008,297 \$ (24,421) \$ 4,491 FY2022 Forecast 8,269	4,491 1,176,353 \$ 188,222 679,173 311,900 1,179,295 \$ (2,943) \$ 1,548 FY2023 Forecast 3,704	Forecast 1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646 FY2024 Forecast 9,417	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 \$ 54,901 \$ 117,547 FY2025 Forecast 5,234	117,547 1,000,032 196,820 720,744 15,600 - 933,164 66,868 184,415 FY2026 Forecast 9,127
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) GRAND GLAIZE AIRPORT FUND Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital	124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$ 4,229 \$ 128,709 FY2016 Actual 25,676 399,885 \$ 125,070	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual (375) 286,559 \$ 131,121	(73,807) 1,145,825 \$ 187,266 682,101 485,062 - 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual (5,602) 514,679 \$ 142,920	2,741,764 \$ 197,090 571,364 1,736,468 - 2,504,922 \$ 236,842 \$ (45,569) FY2019 Actual (943) 334,464 \$ 145,747	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652 FY2020 Budget 28,119 259,000 \$ 134,000	Forecast 5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912 FY2021 Forecast 12,039 275,040 \$ 136,010 142,800 -	Porecast 28,912 983,875 \$ 185,441 665,856 157,000 - 1,008,297 \$ (24,421) \$ 4,491 FY2022 Forecast 8,269 671,141 \$ 138,050	4,491 1,176,353 \$ 188,222 679,173 311,900 1,179,295 \$ (2,943) \$ 1,548 FY2023 Forecast 3,704 381,304 \$ 140,121	Forecast 1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646 FY2024 Forecast 9,417 304,530 \$ 142,223	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 54,901 \$ 117,547 FY2025 Forecast 5,234 327,820 \$ 144,356	117,547 1,000,032 196,820 720,744 15,600 - 933,164 66,868 184,415 FY2026 Forecast 9,127 316,177 146,521
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) GRAND GLAIZE AIRPORT FUND Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance	Actual 124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$ 4,229 \$ 128,709 FY2016 Actual 25,676 399,885 \$ 125,070 130,087	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual (375) 286,559 \$ 131,121 123,879	Actual (73,807) 1,145,825 \$ 187,266 682,101 485,062 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual (5,602) 514,679 \$ 142,920 116,241	(282,411) 2,741,764 \$ 197,090 571,364 1,736,468 2,504,922 \$ 236,842 \$ (45,569) FY2019 Actual (943) 334,464 \$ 145,747 136,392	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652 FY2020 Budget 28,119 259,000 \$ 134,000 140,000	5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912 FY2021 Forecast 12,039 275,040 \$ 136,010	Porecast 28,912 983,875 \$ 185,441 665,856 157,000	4,491 1,176,353 \$ 188,222 679,173 311,900 1,179,295 \$ (2,943) \$ 1,548 FY2023 Forecast 3,704 381,304 \$ 140,121 148,569	Forecast 1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646 FY2024 Forecast 9,417 304,530 \$ 142,223 151,541	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 \$ 54,901 \$ 117,547 FY2025 Forecast 5,234 327,820 \$ 144,356 154,571	117,547 1,000,032 196,820 720,744 15,600 - 933,164 66,868 184,415 FY2026 Forecast 9,127 316,177 146,521 157,663
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) GRAND GLAIZE AIRPORT FUND Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service	124,480 1,146,514 \$ 165,932 477,511 498,842 1,142,285 \$ 4,229 \$ 128,709 FY2016 Actual 25,676 399,885 \$ 125,070 130,087 170,779	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual (375) 286,559 \$ 131,121 123,879 36,786 -	Actual (73,807) 1,145,825 \$ 187,266 682,101 485,062 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual (5,602) 514,679 \$ 142,920 116,241 250,859	(282,411) 2,741,764 \$ 197,090 571,364 1,736,468 2,504,922 \$ 236,842 \$ (45,569) FY2019 Actual (943) 334,464 \$ 145,747 136,392 23,263	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652 FY2020 Budget 28,119 259,000 \$ 134,000 140,000 1,080	Forecast 5,652 1,220,760 \$ 182,700 652,800 362,000 1,197,500 \$ 23,260 \$ 28,912 FY2021 Forecast 12,039 275,040 \$ 136,010 142,800	Porecast 28,912 983,875 \$ 185,441 665,856 157,000 1,008,297 \$ (24,421) \$ 4,491 FY2022 Forecast 8,269 671,141 \$ 138,050 145,656 392,000	## A	Forecast 1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646 FY2024 Forecast 9,417 304,530 \$ 142,223 151,541 14,950	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 \$ 54,901 \$ 117,547 FY2025 Forecast 5,234 327,820 \$ 144,356 154,571 25,000 1	117,547 1,000,032 196,820 720,744 15,600 - 933,164 66,868 184,415 FY2026 Forecast 9,127 316,177 146,521 157,663
Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$) GRAND GLAIZE AIRPORT FUND Beginning Balances (includes Restricted \$\$) Revenues \$ Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds	124,480 1,146,514 \$ 165,932 477,511 498,842 - 1,142,285 \$ 4,229 \$ 128,709 FY2016 Actual 25,676 399,885 \$ 125,070 130,087 170,779	Actual 128,709 2,393,479 \$ 176,171 504,638 1,898,021 17,165 - 2,595,995 \$ (202,516) \$ (73,807) FY2017 Actual (375) 286,559 \$ 131,121 123,879 36,786	Actual (73,807) 1,145,825 \$ 187,266 682,101 485,062 1,354,429 \$ (208,604) \$ (282,411) FY2018 Actual (5,602) 514,679 \$ 142,920 116,241 250,859	(282,411) 2,741,764 \$ 197,090 571,364 1,736,468	Budget 143,652 4,740,000 \$ 180,000 640,000 4,058,000 4,878,000 \$ (138,000) \$ 5,652 FY2020 Budget 28,119 259,000 \$ 134,000 140,000 1,080	Forecast 5,652 1,220,760 \$ 182,700 652,800 362,000 - 1,197,500 \$ 23,260 \$ 28,912 FY2021 Forecast 12,039 275,040 \$ 136,010 142,800	Porecast 28,912 983,875 \$ 185,441 665,856 157,000	## A	Forecast 1,548 961,200 \$ 191,045 692,757 16,300 900,102 \$ 61,098 \$ 62,646 FY2024 Forecast 9,417 304,530 \$ 142,223 151,541 14,950	Forecast 62,646 980,424 193,911 706,612 25,000 925,523 54,901 \$ 117,547 FY2025 Forecast 5,234 327,820 \$ 144,356 154,571 25,000	117,547 1,000,032 196,820 720,744 15,600 - 933,164 66,868 184,415 FY2026 Forecast 9,127 316,177 146,521 157,663 15,400

PREWITT'S POINT TIF FUND	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2021 Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast		FY2026 Forecast
Beginning Balances (includes Restricted \$\$)	2,845,561	2,738,754	2,873,803	2,897,723	2,922,823	2,945,198	3,161,298	3,571,198	-	-	-
Revenues_\$	2,234,788 \$	2,399,066 \$	2,365,950 \$	2,432,642 \$	2,250,000 \$	2,295,000 \$	2,340,900 \$	2,387,718 \$	- \$	- \$	
Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds	26,870 - 2,314,725	31,758 - 2,232,259	31,400 - 2,310,630	25,321 - 2,382,221	28,000 - 2,199,625	28,900 - 2,050,000	31,000	31,800 - 5,927,116	- - - -	- - - -	- - - -
Total Expenditures \$ NET Revenues/Expenditures \$ Ending Balances (includes Restricted \$\$)	2,341,595 \$ (106,807) \$ 2,738,754	2,264,017 \$ 135,049 \$ 2,873,803	2,342,030 \$ 23,920 \$ 2,897,723	2,407,542 \$ 25,100 \$ 2,922,823	2,227,625 \$ 22,375 \$ 2,945,198	2,078,900 \$ 216,100 \$ 3,161,298	1,931,000 \$ 409,900 \$ 3,571,198	5,958,916 \$ (3,571,198) \$	- \$ - \$	- \$ - \$	- - -
DIERBERGS TIF FUND	FY2016 Actual	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2021 Forecast	FY2022 Forecast	FY2023 Forecast	FY2024 Forecast		FY2026 Forecast
Beginning Balances (includes Restricted \$\$)	-	-	-	-	513	-	-	-	-	-	-
Revenues \$	764,688 \$	650,752 \$	839,109 \$	738,949 \$	715,000 \$	729,300 \$	743,886 \$	758,764 \$	773,939 \$	789,418 \$	805,206
Personnel Operations & Maintenance Capital Debt Service Transfers to Other Funds	7,300 - 757,388	7,183 - 643,569	7,800 - 831,309 -	7,558 - 730,878	7,600 - 707,913 -	7,800 - 721,500	7,800 - 736,086	7,900 - 750,864 -	7,900 - 766,039	8,000 - 781,418 -	8,000 - 797,206
Total Expenditures \$ NET Revenues/Expenditures \$	764,688 \$ - \$	650,752 \$ - \$	839,109 \$ - \$	738,436 \$ 513 \$	715,513 \$ (513) \$	729,300 \$ - \$	743,886 \$ - \$	758,764 \$ - \$	773,939 \$ - \$	789,418 \$ - \$	805,206 0
Ending Balances (includes Restricted \$\$)	-	-	-	513	-	-	- \$	- \$	- \$	- \$	0

Note: FY2016-FY2019 Actual / FY2020 represents COVID19 related adjustments

Prewitt TIF Bonds estimated payoff FY2023; Estimated increased effects to General Fund = \$515,000 / Transportation and CIT = \$258,000 (PV\$)

Water Bonds (3) total estimated payoff FY2027; eliminates DNR Interest Subsidy, CIT Transfer in, and Debt Service

Sewer Bonds (2) total estimated payoff FY2025; eliminates DNR Interest Subsidy and Debt Service

 $Inflation\ Rate-\ Actual\ through\ FY2019/estimate\ FY2020+; Source-https://knoema.com/kyaewad/us-inflation-forecast-2019-2024-and-up-to-2060-data-and-charts$

City of Osage Beach, Missouri Schedule of Capital Improvement Items

Asset or Project Name	Fund	Dept.	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29
Generak Fund Misc. (04/13/16/18/20)	10	Multiple	\$ -	\$ 25,000	\$ 14,000	\$ 7,000	\$ 20,200	\$ 5,500	\$ 1,000	\$ 5,500	\$ -
General Fund Building	10	08/09	\$ 127,000	\$ 168,500	\$ 58,000	\$ 15,000	\$ 18,000	\$ 8,000	\$ 4,000	\$ -	\$ -
General Fund Parks	10	10	\$ 259,800	\$ 67,600	\$ 250,600	\$ 135,200	\$ 108,200	\$ 276,300	\$ 113,600	\$ 47,400	\$ 6,000
General Fund Police	10	14	\$ 126,400	\$ 126,400	\$ 176,800	\$ 146,800	\$ 135,400	\$ 112,400	\$ 195,900	\$ 96,400	\$ 96,400
General Fund 911	10	15	\$ -	\$ 300,000	\$ 36,000	\$ 3,500	\$ -	\$ 3,000	\$ -	\$ 10,000	\$ -
General Fund IT	10	19	\$ 78,000	\$ 156,000	\$ 291,300	\$ 129,900	\$ 51,400	\$ 179,700	\$ 82,400	\$ 135,200	\$ 40,000
General Fund Total**	10	_	\$ 591,200	\$ 843,500	\$ 826,700	\$ 437,400	\$ 333,200	\$ 584,900	\$ 396,900	\$ 294,500	\$ 142,400
Transportation Fund*	20	_	\$ 1,083,000	\$ 593,000	\$ 1,151,000	\$ 400,000	\$ 2,198,000	\$ 400,000	\$ 900,000	\$ 900,000	\$ 900,000
Water Fund*	30	_	\$ 130,000	\$ 130,000	\$ 130,000	\$ 230,000	\$ 130,000	\$ 130,000	\$ 330,000	\$ 130,000	\$ 430,000
Sewer Fund*	35		\$ 425,000	\$ 425,000	\$ 425,000	\$ 925,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 925,000	\$ 425,000
Ambulance Fund	40	_	\$ 4,000	\$ 72,000	\$ 13,200	\$ 15,400	\$ 241,200	\$ 8,400	\$ 28,900	\$ 3,200	\$ 8,000
Lee C Fine Airport Fund	45	_	\$ 362,000	\$ 157,000	\$ 311,900	\$ 16,300	\$ 25,000	\$ 15,600	\$ 175,000	\$ 9,950	\$ 40,000
Grand Glaize Airport Fund	47	_	\$	\$ 392,000	\$ 86,900	\$ 14,950	\$ 25,000	\$ 15,400	\$ 175,000	\$ 15,200	\$ -
Over All Total			\$ 2,595,200	\$ 2,612,500	\$ 2,944,700	\$ 2,039,050	\$ 3,377,400	\$ 1,579,300	\$ 2,430,800	\$ 2,277,850	\$ 1,945,400

Notes:

^{*}Funded Repair & Replacement Schedule/Restricted Annually
**Average expenditures annually = \$500,000
All expenditures are in PV\$

City of Osage Beach

Preventive Pavement Maintenance Plan



Prepared For:

City of Osage Beach, Missouri Prepared By:



July 2020

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Introduction

Road pavements gradually deteriorate due to weather and daily traffic loads. Once the condition of a pavement deteriorates beyond a certain point, reconstruction is the only means of repair. Before the pavement reaches that point, relatively inexpensive preventive maintenance techniques can cut short the cycle of deterioration, improve the pavement condition, and postpone the need for expensive reconstruction.

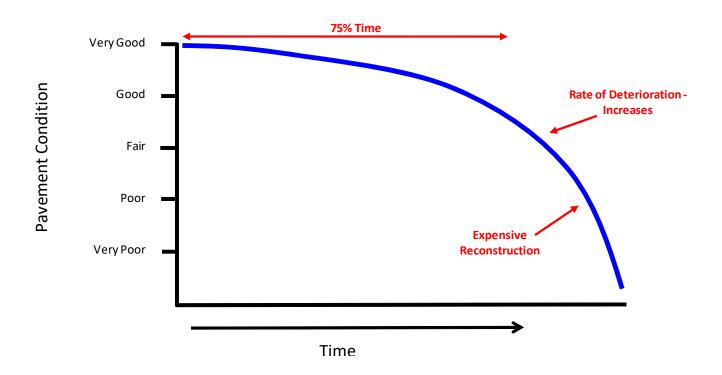


The goal of this Preventive Pavement Maintenance Program (PPMP) is to become pro-active with regard to pavement repairs, which will stop potholes before they start – thereby reducing regular maintenance costs – and stretch reconstruction dollars by extending the life of the pavement that has not yet deteriorated too severely. Ultimately, the program will not only improve the streets in City of Osage Beach, but help make better use of City funds as well.

Preventive Pavement Maintenance Program

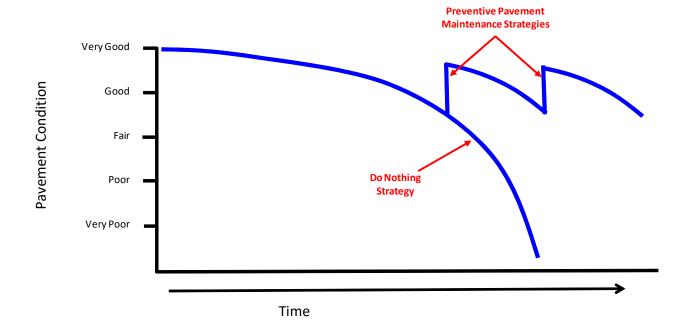
The figure below represents a pavement performance curve in terms of rehabilitation costs. You can see that rehabilitation costs increase by over 4 times if rehabilitation is deferred only 12% of a pavement's design life. For typical pavements, 12% amounts to only about 2 years. In view of this fact, deferred rehabilitation is very expensive. Good pavement maintenance management dictates that rehabilitation occur at a time so as to derive the greatest benefit (or extension of serviceability) possible. The problem becomes very complex since each different pavement structure has a different performance curve and on similar structures with similar curves different pavements will be at a different point in their service lives.

An important point can be concluded here. Unless a jurisdiction has all the money for rehabilitation, it is almost certainly a mistake to program rehabilitation on a "worst-first" basis. Maximum benefit cannot be derived from the limited public funds available if an agency binds itself to a "worst-first" programming philosophy.



Our proposed Preventive Pavement Maintenance Program establishes a guideline to preserve the structural integrity and extend the service life of the City's street network.

A preventive maintenance program is a systematic approach to using a series of preventive maintenance treatments over time. One treatment will improve the quality of the pavement surface and extend the pavement life, but the true benefits of pavement maintenance are realized when there is a consistent schedule for performing the preventive maintenance. The graphic below illustrates this process:



As a result, the performance of pavements depend upon the type, time of application, and quality of the maintenance it receives. Pavement maintenance can be classified into three types of pavement maintenance operations:

- Routine maintenance is the day-to-day maintenance activities that are scheduled or whose
 timing is within the control of our street maintenance personnel. Examples of routine
 maintenance include filling cracks in pavement as necessary, street sweeping, trash collection,
 and re-painting faded pavement markings.
- Reactive Maintenance are activities that must be done in response to events beyond the control of the City's Street Department. Some events require response as soon as possible to avoid serious consequences because a present or imminent danger exists. Reactive maintenance cannot be scheduled because they occur without warning and often must be immediately addressed. Examples of reactive maintenance activities include pothole patching, removing and patching pavement blowups.

• Preventive Maintenance is the planned strategy of cost-effective treatments to an existing roadway system that preserves the system, retards future deterioration and maintains or improves the functional condition of the system without significantly increasing structural capacity. In essence, preventive maintenance activities protect the pavement and decrease the rate of deterioration. Preventive maintenance should be performed on pavements that have oxidized (i.e. surface skin of oil has worn off), but not when significant cracking and joint separation is exhibited.



All types of maintenance are needed in a comprehensive pavement maintenance program. However, emphasizing preventive maintenance may prevent a pavement from requiring reactive maintenance. Although all three types of maintenance are important, we have created this PPMP to cost-effectively prolong the pavement service life of Osage Beach City streets.

In Summary:

Delays in preventive maintenance increase the quantity of pavement defects and their severity so that, when corrected, the cost is much greater. The purpose of our PPMP is to protect the pavement structure, slow the rate of pavement deterioration and correct pavement surface deficiencies. As an aid to assess the effectiveness of the PPMP, a yearly review should be conducted on all City owned and maintained streets.

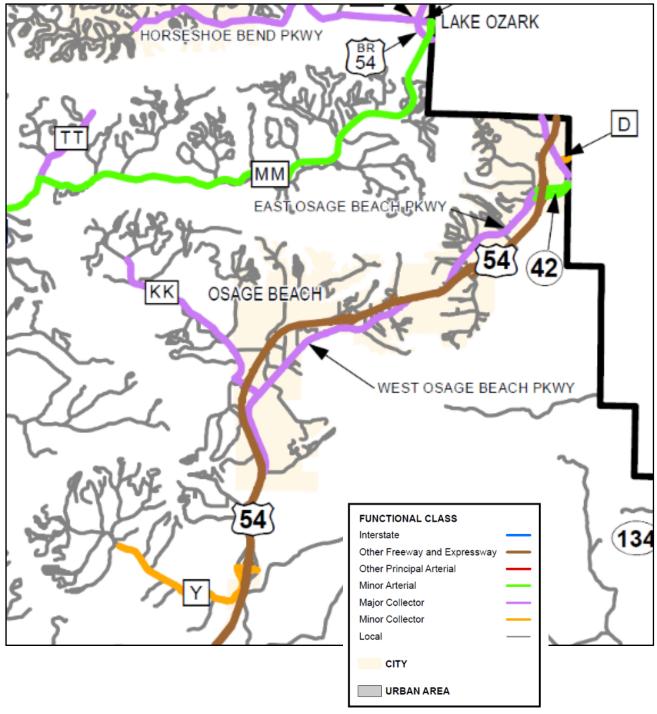
Framework and Strategy - Program Development

It is important to note that City representatives and Cochran staff met numerous times to: a) integrate ideas from different perspectives; and b) work together to create an implementation plan that made sense from a public perception standpoint and City budgeting perspective.

Both parties learned from each other and worked to together to develop the plan. As a result, we developed this plan based on the following issues and circumstances, which were specific to the Osage Beach street network system.

- 1. **Existing Pavement Conditions** we assessed the pavement conditions of all of the streets and determined the appropriate levels of maintenance that were/could be warranted.
- 2. Classification by Roadway Type we grouped and clustered the roadways by type/characteristic. Specifically, we identified roadways into four categories: a) residential asphalt streets; b) arterial asphalt roadways; c) concrete roadways; and d) roadways that qualify for federal funding.
- 3. Roads Eligible for Federal Funding the Missouri Department of Transportation (MoDOT) maintains a master list of roadways eligible for federal funding. MoDOT is responsible for maintaining and updating the region's Roadway Functional Classification System mandated under federal law. Roadways are classified according to their urban or rural setting and the type of service they provide based on considerations such as: connectivity, mobility, accessibility, vehicle miles traveled, average annual daily traffic, and abutting land use. The purpose of roadway functional classification is to describe how travel is channelized through the roadway network and to determine project eligibility for inclusion in the Long Range Plan and short-range Transportation Improvement Program (TIP). A roadway must already be classified at minimum as a planned or existing Urban Collector or Rural Major Collector in order to be eligible for federal funds allocated in the TIP. The map on the following pages shows the current status of roadways eligible in the City of Osage Beach.

The roadways that are colored are currently eligible for federal funding in Osage Beach.



Federal-Aid highways exclude local roads and rural minor collectors.

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- 4. **Group Concept** we determined that it would be more cost effective from a bid pricing standpoint to combine roads in grouped areas. This would save extra mobilization costs and minimize disruption to the residents. This group concept would eliminate the need for the paving contractor to jump to three different areas in the City during a paving operation. It makes more sense to group streets together for maintenance/rehabilitation from a cost and mobilization standpoint. In addition, this idea would help prevent construction trucks driving over pavements that were resurfaced the year before.
- 5. **Construction Cost Estimating** we quantified and estimated the cost of each street's proposed treatment.
- 6. **Program Budget** the program was developed in a way that the City could plan and budget to make the plan work. It is important to take into consideration of the City's budget regarding when the streets would be treated. We assumed an approximately \$1,000,000 allocation of funds for the preventive pavement maintenance program.
- 7. **Pavement Treatment Selection** final development of the plan based on the cost and performance of the preferred pavement treatments as described in the next section.

Preferred Pavement Treatment Types

This PPMP utilizes surface treatments as categories of work. These surface treatments are targeted at pavement surface defects primarily caused by the environment and vehicular loads. Preventive maintenance treatments used to protect the pavement structure and slow the rate of pavement deterioration include the following:

- Crack and Joint Sealing
- ➤ Slurry Seal
- Microsurfacing not recommended
- Nova Chip Ultra Thin Asphalt
- Surface Milling, Paving Fabric, and Asphalt Overlay
- > Full Depth Pavement Replacement

Crack and Joint Sealing

Description: Crack and joint sealing consists of cleaning the crack in the pavement surface and placing the specified materials into and above the crack to substantially reduce infiltration of water and to reinforce the adjacent pavement. The fill method consists of cutting the desired reservoir shape at the working crack in the existing surface,



cleaning the cut surfaces and placing the specified materials into the cavity to prevent the intrusion of water and incompressibles into the crack.

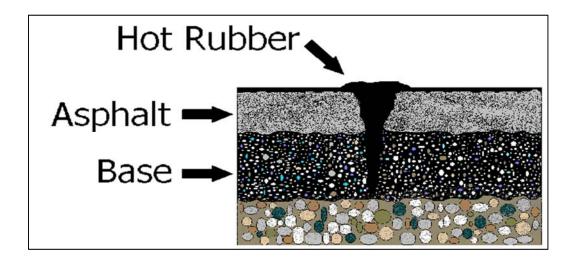
Purpose: The purpose of sealing and filling cracks in the pavement surface is to prevent water and incompressibles from entering the pavement structure.

Existing pavement condition: Concrete pavements should have cracks filled every two years. On asphalt pavements, crack filling should begin two to four years after resurfacing, and on a composite pavement, one to two years old. The visible surface distress may include: fairly straight open longitudinal and transverse cracks with slight secondary cracking and slight raveling at the crack face, and no patching or very few patches in excellent condition.

Existing pavement surface preparation: None.

Performance: The effectiveness of the seal will greatly depend upon the width of crack being sealed and the movement of the pavement structure at the crack.

Life Extension: This treatment is not a one shot operation. In order to maintain the sealed pavement surface, a routine maintenance crack sealing and filling operation should follow up this treatment, as additional cracks develop.



Slurry Seal

Description: A Slurry Seal is a cold, mixed asphalt slurry. It consists of emulsified asphalt, graded fine aggregate and additives. It is a hard wearing surfacing for pavement preservation. Mixing and spreading are accomplished in one continuous operation. The surface may be reopened to travel within a few hours.

Purpose: The purpose of Slurry Seal is to extend the life of the existing pavement by protecting it from oxidation and deterioration. This process creates an even-textured surface. Slurry Seals treat aged and raveled pavements by filling minor cracks, replacing lost surface aggregate, restoring skid resistance and restoring aesthetic appeal. It may be used on freeways, residential streets, parking lots and any area that needs the pavement to be preserved.

- Protects the road structure
- Perfect for residential/low traffic roads
- Good skid resistance

Existing pavement condition: The existing pavement should exhibit a uniform cross section and a good base. The visible distress may include slight cracking, rutting, minor surface irregularities, flushed or polished surface.

Performance: A slurry seal performs well on roadways to correct pavement surface conditions described above.

Life Extension: We expect that slurry seal applied at warranted conditions will provide a life extension of 4 years on arterial streets and 5 years on residential/low volume streets.



Micro-surfacing

Description: Micro-Surfacing is a mixture of polymer modified asphalt emulsion, mineral aggregate, mineral filler, water, and other additives, properly proportioned, mixed, and placed on a paved surface.



Purpose: A single course micro-surfacing will retard oxidation and improve skid resistance in the pavement surface. A multiple course micro-surfacing is used to correct certain pavement surface deficiencies including severe rutting, minor surface profile irregularities, polished aggregate or low skid resistance and light to moderate raveling. Micro-surfacing is typically used on flexible or composite pavements and can perform under all traffic volumes.

Existing pavement condition: The existing pavement should exhibit a uniform cross section and a good base. The visible distress may include slight cracking, rutting, minor surface irregularities, flushed or polished surface and/or moderate raveling.

Existing pavement surface preparation: Surface preparation typically includes crack fill, bump removal if necessary, removal of thermoplastic pavement markings and seal patching for large voids and potholes.

Performance: A micro-surface performs well on roadways to correct pavement surface conditions described above.

Life Extension: We expect that micro-surfacing applied at warranted conditions will provide a life extension of 5 years on arterial streets and 6 years on residential/low volume streets.

Performance Limitations: A standard micro-surfacing formulation should not be used on a pavement with moderate to heavy surface cracks. Due to its brittle nature, it is a poor crack sealer. Because micro-surfacing mixes require warm to moderate temperatures for curing, the City should plan to only perform this work in the middle of the summer.

Not Recommended: Unfortunately, numerous micro-surfacing projects throughout the area have exhibited extensive stripping from the existing pavement. As a result, after three to five years, the aesthetic look of the striped micro-surfacing pavements is criticized by residents and public officials. Therefore, we do not recommend this preventive pavement maintenance treatment for the City of Crystal City.



Nova Chip

Description: The Nova Chip (Ultra Thin Asphalt) paving process places a thin, coarse aggregate hot mix over a special asphalt membrane, on an existing asphalt surface. NovaChip combines a surface seal with a hot mix level-paving surface and the flexibility of a thin maintenance treatment, which results in a durable surface



Purpose: The special NovaBond membrane prevents water leakage and provides a superior bond to the old asphalt or concrete surface.

Existing pavement condition: NovaChip can be used as preventative maintenance or as a surface rehabilitation treatment. The NovaChip results in a thinner surface than hot mix, making it suitable where over height clearance and drainage profile problems may occur. It's good for high traffic areas because the process moves quickly and all in one pass. This means the road will be opened sooner resulting in less traffic delays.

Existing pavement surface preparation: Surface preparation typically includes minor milling at commercial entrances, bump removal if necessary, removal of thermoplastic pavement markings and patching for large voids and potholes.

Performance: This type of treatment will protect the remaining pavement structure, slow the rate of deterioration and improve the ride quality.

Life Extension: We expect that NovaChip applied at warranted conditions will provide a life extension of 6-8 years on arterial streets and 7-9 years on residential/low volume streets.

Performance Limitations: This treatment should not be used on an existing pavement that shows evidence of a weak base.





Surface Milling with Bituminous Overlay

Description: The removal of an existing bituminous surface by the cold milling method, placement of paving fabric, and the placement of a dense graded bituminous mixture. In most streets in Crystal City, we recommend the MoDOT BP-2 mixture of asphalt.

Purpose:

Milling - The cold milling operation is used to: (1) correct specific existing surface deficiencies, and (2) correct the shape of the existing cross section. The cold milling operation is used to correct rutting in the existing bituminous surface layer where the rutting is not caused by a weak base and when the condition of the exiting pavement has deteriorated to a point where it is not

practical to correct the problem by a more economical treatment. The cold milling operation is also used to remove an existing bituminous course that is debonding and to remove the existing bituminous surface to retain the existing curb face.



Paving Fabric - The paving fabric is used as a water proofing membrane and increases pavement life in three ways:

- 1. Substantially eliminates the number one cause of pavement deterioration, water intrusion through the asphalt.
- 2. Slows reflective cracking from existing asphalt or concrete pavements. FHWA studies show that cracks as small as 1/8 inch will allow 97% of the water striking the pavement to pass through to the base. Slight movements associated with old cracks or joints are dissipated by the membrane. More importantly, even if the crack reflects through, the membrane remains intact and continues to waterproof.
- 3. Studies show that paving fabrics increase the fatigue life by 100% to 300%. Asphalt is a flexible pavement and research has shown that pavements with a paving fabric can flex two to three times more before fatigue failure.



Asphaltic Surface Course - The bituminous overlay replaces the bituminous material that is removed.



Existing Pavement Condition: The existing pavement should exhibit a good base condition. The visible surface distress may include: severe surface raveling, multiple longitudinal and transverse cracking with slight raveling, a small amount of block cracking, patching in fair condition, debonding surface and slight to moderate rutting.

Performance: This type of treatment will protect the remaining pavement structure, slow the rate of deterioration and improve the ride quality.

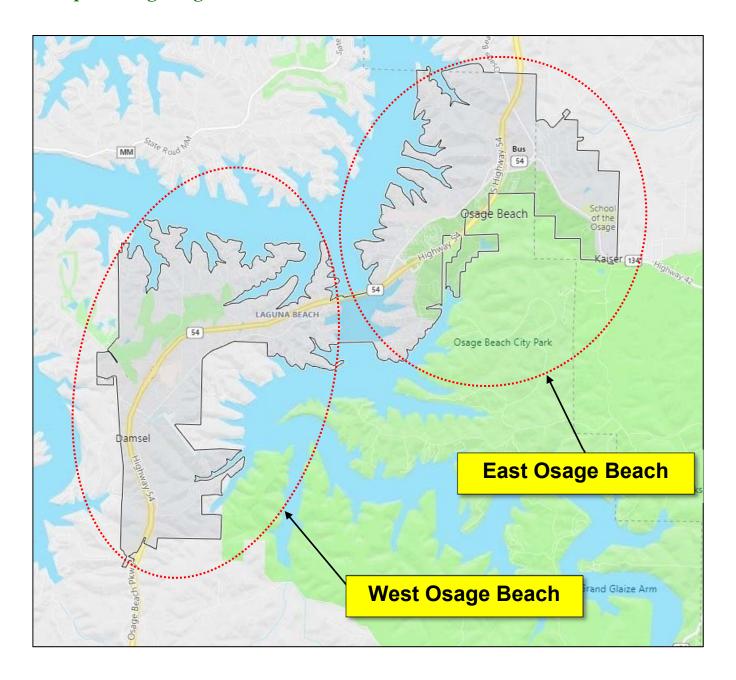
Performance Limitations: This treatment should not be used on an existing pavement that shows evidence of a weak base.





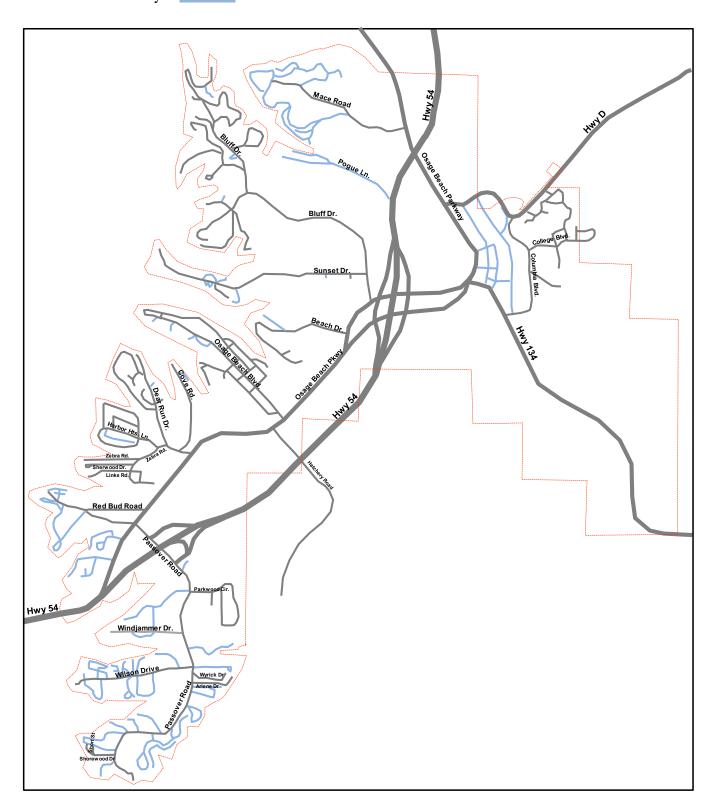


Map Showing Osage Beach



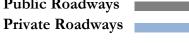
Street Map – East Osage Beach

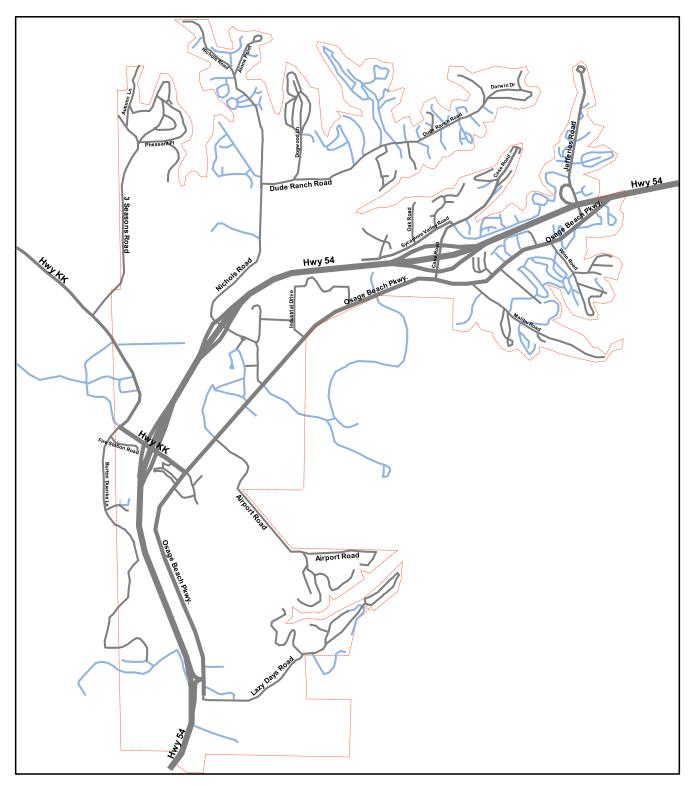
Public Roadways
Private Roadways



Street Map – West Osage Beach

Public Roadways





Group Concept – as discussed above, we determined that it would be more cost effective from a bid pricing standpoint to combine certain roads into grouped areas. This would save extra mobilization costs and minimize disruption to the residents. This group concept would eliminate the need for the paving contractor to jump to three different areas in the City during a paving operation. It makes more sense to group streets together for maintenance/rehabilitation from a cost and mobilization standpoint. In addition, this idea would help prevent construction trucks driving over pavements that were resurfaced the year before.

East Side Groupings:

Bluff Drive Group

- Pogue Hollow Circle
- Huff and Puff Lane
- Gwen Lane
- Cedar Village Road
- Castle Court
- Hamrock Lane
- Ski Drive
- Gerrard Lane
- Bondard Lane
- Ash Lane.

Sunset Drive Side Streets

- Dorothy Lane
- Rock Lane

Osage Beach Road Group

- Osage Beach Road
- Camden Ave
- Church Drive
- Gutridge Ln
- Guenther Ln
- Shady Ln
- Lakehurst Cir
- Proctor Dr.
- Goodfellow Ave
- Lakeshore Drive
- Sky Harbor Drive
- Elm Street
- Fairland Ave
- Griswold Lane





Dear Run Group

- Dear Run Road
- Park Lane
- Doe Lane
- Summit Circle
- Explorer Ct.
- Scout Street
- Frontier Lane

Harbor Heights Group

- Harbor Height Lane
- Greenwood Circle
- Inlet Lane
- Coral Lane

Zebra Road Group

- Zebra Road
- Stewart Drive
- Links Road
- Jayhawk Street

Wilson Hollow Cove Group

- Parkwood Circle
- Windjammer Drive
- Wilson Drive
- Jordan Drive
- Wyrick Drive
- Arlene Drive
- Shorewood Drive
- Short Street

College Blvd Group

- College Blvd
- Meadow Lane
- Azalea Ct.
- Honneysuckle Court
- Bentwood Drive
- Maple Tree Circle
- Brookfield Lane
- Larkspur Ct.
- Bradford Dr
- Aspen Ct.







West Side Groupings:

City Hall Group

- City Pkwy
- Progress Blvd.
- Chapel Ln
- Armory Drive

Dude Ranch Road Group

- Dude Ranch Road
- Cayman Drive
- Pebble Lane
- Hampton Ct.
- Silver Leaf Lane (Concrete)
- Darwin Drive
- Spindrifter Court
- Hickory Lane

Dogwood Lane Group

- Dogwood Lane
- Cherry Blossom Ln
- Peach Blossom Ln
- Apple Blossom Circle

Case Road Group

- Case Road
- Shore Acres Dr
- Lois Ln
- Melody Lane

Sycamore Valley Rd. Group

- Sycamore Valley Road
- Rowan Road
- Oak Rd
- Leaf Ct.
- Broadwater Lane
- Raintree Ct.
- Locust Ct.
- Bayview Ct.

Nichols Road Group

- Nichols Road
- Alona Point
- Lakeview Cir







Lazy Days Group

- Lazy Days Road
- Indian Trace
- Hawthorn Dr.
- Cherokee Lane

Three Seasons Group

- Three Seasons Road
- Pheasant Place
- Golfview Lane
- Mockingbird Lane
- Bluebird Circle
- Cardinal Circle
- Wulle Lane
- Quail Drive
- Autum Lane

Winn Road Group

- Winn Road
- Drasky Lane
- Palmer Lane
- Aqua Drive
- Parish Lane

Malibu Road Group

- Malibu Road
- Conway Lane
- Gamble Circle

Parkside Village Group

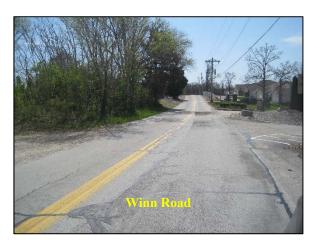
- Parkside Village Blvd
- Parkside Village Court
- Parkside Village Lane

Airport Road Group

- Airport Road
- Arrow Drive
- Fawn Ct.
- Sleepy Hollow

KK Drive Group

- KK Drive
- Mayer Court
- Virginia Ave







• Palisades Blvd - a portion is concrete

Burton Duenke Group

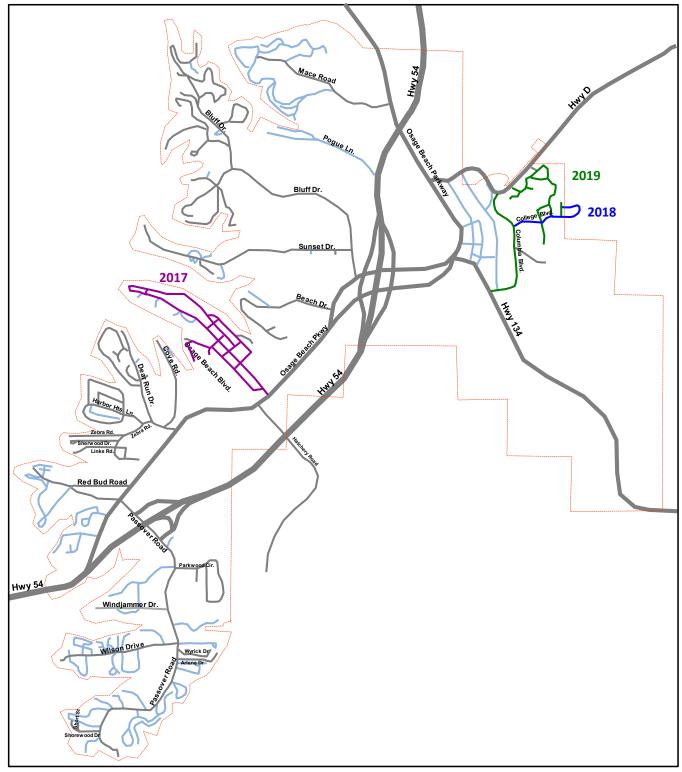
- El Terra Road
- Burton Duenke Ln
- Swiss Village Road
- Fire Station Road

History - Previous Pavement Treatments - the following table shows the past several years of the City's pavement treatments.

	2017	2018	2019	2020
Project Description				
Arterials:				
Osage Beach Parkway (East)			Microsurfacing	
Columbia Blvd			Slurry Seal	
Osage Beach Parkway (West)		Microsurfacing		
East Side Streets:				
Mace Road				2A - \$1,133,234
Osage Beach Road Group	Slurry Seal			
College Blvd Group		Slurry Seal	Slurry Seal	
West Side Streets:				
Dude Ranch Road Group		Slurry Seal		
Dogwood Lane Group		Slurry Seal		
Case Road Group			Slurry Seal	
Sycamore Valley Rd. Group			Slurry Seal	
Nichols Road Group		Slurry Seal	Slurry Seal	
Lazy Days Group			Slurry Seal	
Three Seasons Group			Slurry Seal	
Jefferies Road				Slurry Seal
Winn Road Group				Slurry Seal
Forrester Road				Slurry Seal
Murphy Road				Slurry Seal
Malibu Road Group				Slurry Seal
Mariner Circle				Slurry Seal
Parkside Village Group				Slurry Seal
Airport Road Group		Slurry Seal		Slurry Seal
KK Drive Group			Slurry Seal	Slurry Seal
Totals	\$76,810	\$600,136	\$474,825	\$1,287,122

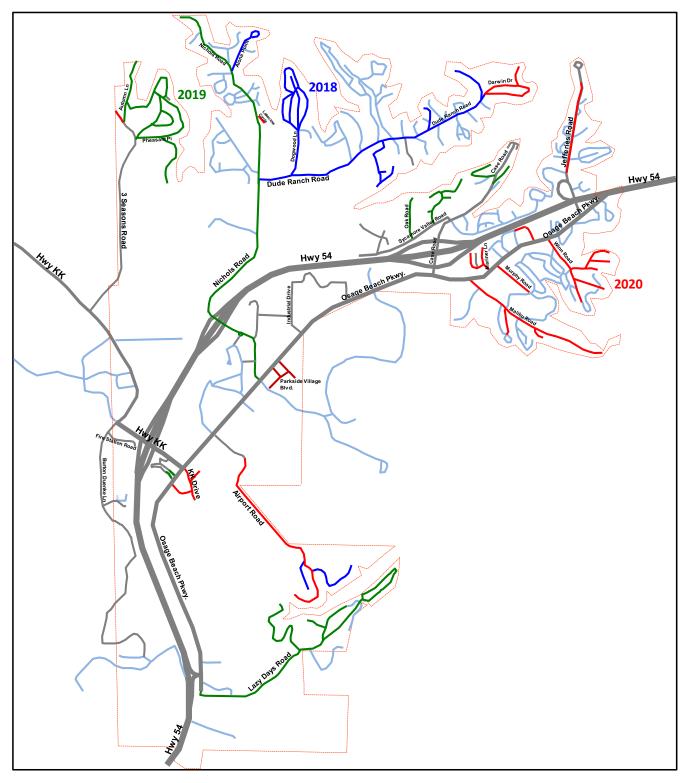
Slurry Seal History – East Osage Beach





Slurry Seal History – West Osage Beach





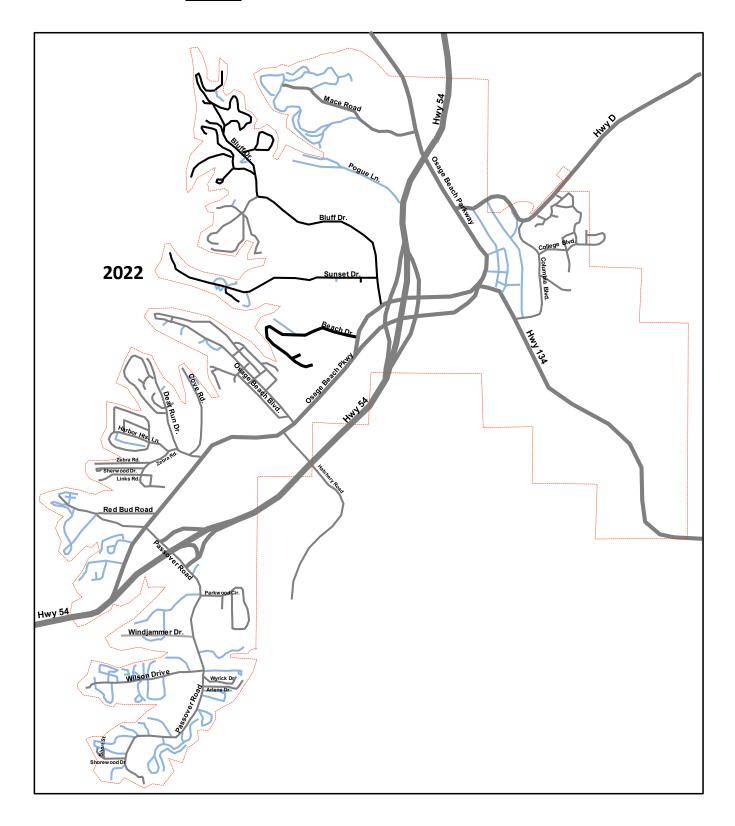
Pavement Resurfacing Schedule - all budget estimates are present value

		2021		2022		2023		2024		2025		2026
Project Description		Cost		Cost		Cost		Cost		Cost		Cost
Arterials:		Cost		COSI		Cost		Cost		Cost		COST
	C.	oitu orou			05	oit corour			NO	ф 7 07 гоо		
Osage Beach Parkway (East)	CF	city crew			CF	city crew			NC	\$727,500		
Barry Prewitt Memorial Dr.	CF	city crew			CF	city crew			NC	\$100,800		
Columbia Blvd	CF	city crew			CF	city crew			NC	\$130,000		
Osage Beach Parkway (West)	CF	city crew			CF	city crew			NC	\$1,188,005		
East Side Streets:	0.0	4000 500										
Mace Road	2B	\$890,509		****								
Beach Drive			A .	\$146,489			CF	city crew			CF	city crew
- Carie Lane			Α	\$22,044			CF	city crew			CF	city crew
Bluff Drive			NC	\$211,600			CF	city crew			CF	city crew
Bluff Drive Group			SS	\$99,867			CF	city crew			CF	city crew
Sunset Drive			NC	\$112,000			CF	city crew			CF	city crew
Sunset Drive Side Streets			SS	\$6,533			CF	city crew			CF	city crew
Osage Beach Road Group	CF	city crew			SS	\$96,369			CF	city crew		
Cove Road	CF	city crew			SS	\$18,400			CF	city crew		<u> </u>
Dear Run Group	CF	city crew			SS	\$50,617			CF	city crew		
Harbor Heights Group	CF	city crew			SS	\$51,670			CF	city crew		
Red Bud Road	CF	city crew			SS	\$19,200			CF	city crew		
Hatchery Road	CF	city crew			SS	\$9,333			CF	city crew		
Zebra Road Group			CF	city crew			SS	\$53,573			CF	city crew
Wilson Hollow Cove Group			CF	city crew			SS	\$65,167			CF	city crew
College Blvd Group			CF	city crew			SS	\$52,200			CF	city crew
Passover Road	CF	city crew			CF	city crew					NC	\$273,000
Wilson Drive	CF	city crew			CF	city crew					NC	\$54,000
West Side Streets:												
Airport Road Entrance	Α	\$45,000			CF	city crew			CF	city crew		
Industrial Drive	Eng.	\$103,011	ROW	\$50,000	FD	\$1,107,371			CF	city crew		
City Hall Group			CF	city crew			Α	\$276,800			CF	city crew
Dude Ranch Road Group			CF	city crew			SS	\$102,833			CF	city crew
Dogwood Lane Group			CF	city crew			SS	\$50,250			CF	city crew
Case Road Group			CF	city crew			SS	\$55,572			CF	city crew
Sycamore Valley Rd. Group			CF	city crew			SS	\$58,458			CF	city crew
Nichols Road Group			CF	city crew			SS	\$115,592			CF	city crew
Lazy Days Group			CF	city crew			SS	\$72,020			CF	city crew
Three Seasons Group			CF	city crew			SS	\$117,253			CF	city crew
Jefferies Road			CF	city crew			CF	city crew			SS	\$25,667
Winn Road Group			CF	city crew			CF	city crew			SS	\$30,800
Forrester Road			CF	city crew			CF	city crew			SS	\$2,767
Murphy Road			CF	city crew			CF	city crew			SS	\$10,000
Malibu Road Group			CF	city crew			CF	city crew			SS	\$35,713
Mariner Circle			CF	city crew			CF	city crew			SS	\$21,533
Parkside Village Group			CF	city crew			CF	city crew			SS	\$15,067
Airport Road Group			CF	city crew			CF	city crew			SS	\$55,707
KK Drive Group			CF	city crew			CF	city crew			SS	\$31,017
Burton Duenke Group			CF	city crew			CF	city crew			55	ΨΟ1,017
•		\$1,038,520	OI ⁻	\$655,067		\$1,352,960	OI"	\$1,438,613		\$2,198,505		\$621,783
Totals		ψ1,030,320		φυσο,υσ7		ψ1,332,30U		φ1,430,013		ΨZ, 130,303		Ψυ∠ 1,703

A - Mill/Overlay; CF - Street Dept. Crack Filling; STP - Federal Aid; NC - Nova Chip; SS - Slurry Seal; FD - Full Depth Pavement Replacement

Paving Schedule – East Osage Beach

2022



Cost Estimates - Full Depth Pavement Replacement Projects

Bartlett&West

Engineer's Estimate of Probable Cost

Date:

Project No.

November 27, 2019

19090.001

Mace Road Improvements Project (Phase 2B)

Station 83+00 to 95+75 (approx.)

City of Osage Beach, Missouri

Item No.	Description	Quantity	Unit	Engine	er's Estimate
				Unit Price	Total Cost
	Roadway Items				
109-99.01	Force Account	1	LS	15,000.00	\$15,000.00
201-99.01	Clearing and Grubbing	1	LS	15,000.00	\$15,000.00
202-20.10	Removal of Improvements	1	LS	30,000.00	\$30,000.00
203-50.00	Unclassified Excavation	1,542	CY	20.00	\$30,838.00
203-99.07	Embankment	202	CY	15.00	\$3,034.50
304-05.04	Type 5 Aggregate for Base (4 in Thick)	1,387	SY	6.00	\$8,322.00
304-05.06	Type 5 Aggregate for Base (6 in Thick)	3,667	SY	8.00	\$29,336.00
310-50.03	4 in Gravel (A) or Crushed Stone (B)	59	SY	10.00	\$590.00
401-99.05	Bituminous Pavement Mixture, PG64-22 (BP-1), 2 in	3,667	SY	15.00	\$55,005.00
401-99.35	Bituminous Pavement Mixture, PG64-22 (Base), 4 in	3,667	SY	20.00	\$73,340.00
401-99.xx	Bituminous Pavement, 6 in (driveways)	1,921	SY	25.00	\$48,025.00
607-99.03	72 in Wooden Privacy Fence	75	LF	100.00	\$7,500.00
608-10.12	Truncated Domes	10	SF	30.00	\$300.00
608-10.10	Concrete Curb Ramps and Landings, 6in.	18	SY	100.00	\$1,800.00
608-60.04	Concrete Sidewalk, 4 in	563	SY	40.00	\$22,520.00
608-99.05	Concrete Sidewalk Stairs	0	SY	100.00	
608-99.25	6 in PCC Driveway	347	SY	60.00	\$20,820.00
608-99.35	6 in PCC Pad	14	SY	60.00	\$840.00
609-99.03	Barrier Curb & Gutter	713	LF	22.00	\$15,686.00
609-99.23	Roll-Back Curb & Gutter	1,839	LF	22.00	\$40,458.00
611-99.07	MoDOT Type II Rock Blanket (24 in. thick)	0	CY	100.00	
616-99.01	Maintenance of Traffic	1	LS	20,000.00	\$20,000.00
618-10.00	Mobilization	1	LS	50,000.00	\$50,000.00
620-00.15	Preformed Thermoplastic Pavement Marking, 24 in. White	24	LF	25.00	\$600.00
620-00.45	Preformed Thermoplastic Pavement Marking, LT / RT Fish Hook Arrow	4	EA	800.00	\$3,200.00
620-60.00C	6 in. White Standard Waterborne Pavement Marking Paint (Type P Beads)	198	LF	1.00	\$198.00
620-60.01C	4 in. Yellow Standard Waterborne Pavement Marking Paint (Type P Beads)	2,526	LF	1.00	\$2,526.00
626-99.01	Permanent Signage	1	LS	1,500.00	\$1,500.00
627-40.00	Contractor Furnished Surveying and Staking	1	LS	7,500.00	\$7,500.00
726.99.15	15" dia. CMP Pipe	435	LF	75.00	\$32,625.00
726.99.18	18" dia. CMP Pipe	253	LF	85.00	\$21,505.00
726.99.30	30" dia. CMP Pipe	0	LF	100.00	
731-99.01	4' x 3'-3" Curb Inlet	6	EA	3,050.00	\$18,300.00
731-99.03	5' x 4' Curb Inlet	0	EA	3,700.00	
731-99.04	4' dia. Eccentric Storm Sewer Manhole	1	EA	3,500.00	\$3,500.00
732-99.30	End section, CMP, 30"	0	EA	400.00	
805-99.01	Seeding, Fertilizing and Mulch	0.3	AC	6,000.00	\$1,800.00
806-10.07A	Inlet Check	6	EA	150.00	\$900.00
806-10.19	Silt Fence	397	LF	3.00	\$1,191.00
300 10.10	Temporary Roadway Connection	0	LS	50,000.00	
	Tomporary Treasurery Commontain				
	Roadway Subtotal				\$583,759.50

Mace Road Improvements Phase 2B - continued

Item No.	Description	Quantity	Unit	Engineer's Estimate	
				Unit Price	Total Cost
	Waterline Items				
	Abandonments, Removals, and Locating Existing Water Lines	1	LS	15,000.00	\$15,000.00
	Line Flushing, Pigging, and Testing	1	LS	1,500.00	\$1,500.00
	New Water Main - Size and Material to be Determined. Cost Basis is 6- inch AWWA C900 PVC (INCLUDES ROCK TRENCHING AND GRAVEL BACKFILL)	525	LF	80.00	\$42,000.00
	Fittings, Valves, and Hydrants	1	LS	5,000,00	\$5,000.00
	Reconnect Existing Service Meter	4	EA	2,000.00	\$8,000.00
	Water Service Line	160	LF	40.00	\$6,400.00
	Waterline Subtotal				\$77,900.00
	Sanitary Sewer Items				
	New Force Main - Size and Material to be Determined. Cost Basis is 2- inch ASTM D2241 PR200 PVC (INCLUDES ROCK TRENCHING AND GRAVEL BACKFILL)	525	LF	60.00	\$31,500.00
	Connect new Force Main to Existing Force Main with Flexible Coupling	1	EA	350.00	\$350.00
	Sanitary Sewer Abandonments & Removals	1	LS	5,000.00	\$5,000.00
	Bypass Pumping	1	LS	8,000.00	\$8,000.00
	Sanitary Subtotal				\$44,850.00
	Lighting	1	LS	110,000.00	\$110,000.00
	Contingency			10%	\$74,000.00
w	Total Construction Cost (Phase 2B)				\$890,509.50
	Total Project Construction Cost (Phase 2A & 2B)				\$1,945,008.00

This project cost opinion was prepared using bid tabulation information available at the time of preparation and is prepared in good faith using engineer's judgment and experience. The engineer makes no guarantee as to the actual costs for construction.

PROJECT COST ESTIMATE

City of Osage Beach - Industrial Drive Road Improvement Project

Item No.	Item Description	Unit	Plan Quantity	Unit Price (\$)	Total (\$)
1	Removal of Improvements	LS	1	55,000.00	55,000
2	Linear Grading	STA	17	1,500.00	25,500
3	Driveway Entrances	SF	8,400	6.00	50,400
4	Concrete Sidewalk - one side	SF	10,500	5.00	52,500
5	Subbase Repair	SY	333	40.00	13,333
6	Type 5 Aggregate for Base	SY	5,056	6.00	30,333
7	New Full Depth Pavement	SY	5,056	60.00	303,333
8	Concrete Curb and Gutter	LF	3,300	25.00	82,500
9	Storm Sewer	LF	1,700	60.00	102,000
10	Street Lighting	EA	12	6,000.00	72,000
11	Pavement Striping	LF	7,000	0.55	3,850
12	Restoration	LS	1	25,000.00	25,000
13	Construction Mobilization	LS	1	70,000.00	70,000
14	Construction Traffic Control	LS	1	10,000.00	10,000
General Notes:			895,750		
Osage Beach Pkwy to City Pkwy (cul-de-sac)			134,363		
2. Approximate Length = 0.35 Miles		Surveyi	103,011		
3. Pavement width - existing @ 20', proposed 26'		C	77,258		
4. ROW @ 40'			1,210,382		