


SUBJECT: AN ORDINANCE OF THE MATANUSKA-SUSITNA BOROUGH ASSEMBLY RELATING TO THE CONSTRUCTION, ADDITIONS, IMPROVEMENTS, BETTERMENTS, REPAIR, RECONSTRUCTION, OR ACQUISITION OF PUBLIC ROADS AND PATHWAYS AND FACILITIES RELATED THERETO IN THE MATANUSKA-SUSITNA BOROUGH, TOGETHER WITH ALL NECESSARY EQUIPMENT AND TRANSPORTATION FACILITIES INCLUDING IMPROVING SCHOOL ACCESS, AND THE ACQUISITION OF LANDS OR RIGHTS IN LANDS IN CONNECTION THEREWITH; AND A DEBT OF THE BOROUGH, AUTHORIZING THE ISSUANCE OF AREAWIDE GENERAL OBLIGATION BONDS OF THE BOROUGH IN AN AMOUNT NOT TO EXCEED THE SUM OF \$33,320,000, TO FINANCE THE COST, IN WHOLE OR IN PART, OF SUCH PUBLIC ROADS, FACILITIES, AND LANDS, AND SUBMITTING THE PROPOSITION TO THE VOTERS AT THE NOVEMBER 5, 2024 REGULAR BOROUGH ELECTION.

AGENDA OF: July 16, 2024

ASSEMBLY ACTION:

AGENDA ACTION REQUESTED: Introduce and set for public hearing.

Route To	Signatures
Originator - B. Sworts	<p> Recoverable Signature</p> <p>X Brad Sworts</p> <p>Signed by: Brad Sworts</p> <p style="text-align: right;">7/17/2024</p>
Department Director - T. Adams	<p>X Tom Adams, P.E.</p> <p>Signed by: Tom Adams</p> <p style="text-align: right;">7/22/2024</p>
Finance Director	<p>X Cheyenne Heindel</p> <p>Signed by: Cheyenne Heindel</p> <p style="text-align: right;">7/22/2024</p>
Borough Attorney	<p>X Nicholas Spiropoulos</p> <p>Signed by: Nicholas Spiropoulos</p> <p style="text-align: right;">7/22/2024</p>
Borough Manager	<p>X Michael Brown</p> <p>Signed by: Mike Brown</p> <p style="text-align: right;">7/22/2024</p>
Borough Clerk	<p>X Estelle Wiese for Lonnie M...</p> <p>Signed by: Estelle Wiese</p> <p style="text-align: right;">7/22/2024</p>

ATTACHMENT (S) : Fiscal Note  
 TIP24 Projects Narrative (17 pp)  
 Ordinance Serial No. 24-070 (7 pp)

**SUMMARY STATEMENT:**

This legislation is sponsored by Assemblymember Fonov to seek voter approval to issue bonds and proceed with transportation system projects.

**BOROUGH GROWTH:**

The Matanuska-Susitna Borough (MSB) has experienced substantial and sustained growth for the last 40 years, resulting in increased traffic volumes, congestion, and safety issues on the existing road network. According to an article by David Howell in the April 2024 Alaska Economic Trends Magazine, the Mat-Su continues to have the highest growth rate, at 1.9%, of any area in Alaska. Mat-Su's population has continued to grow, including through migration, even though the state and most areas lost people to migration.

With a current population of over 113,920, an annual growth of 1.9%, and no indication that growth will slow down in the foreseeable future, comes the increasing need for new and improved public infrastructure. Between 2010 and 2024, the MSB has developed and executed various projects that began with voter authorization of the projects and related bond issuances.

**TRANSPORTATION INFRASTRUCTURE PROGRAM 2024:**

The MSB's Transportation Infrastructure Program 2024 (TIP24) is a package of projects that aims to reduce traffic congestion, support economic development, improve connectivity, enhance pedestrian and vehicle safety, increase reliability, and provide transportation choices for residents. Most of these projects are identified in the MSB's Long Range Transportation Plan (LRTP), Official Streets and Highways Plan (OSHP), or Safe Routes to Schools Plan (SRTS); some were included in prior TIP approvals.

TIP24 comprises projects divided into phases, scheduled according to the time estimated to accomplish each phase and the funding needed. Each project is broken into five (5) phases as follows: Preliminary Engineering; Design; Right-of-way; Utilities; and Construction.

In total, 23 projects have been considered, with staff recommending to move forward with the following 11 projects. Not all of these projects need to be presented to the voters for approval as explained later in this IM. As noted below, some of these projects have been included in prior TIPs.

<b>Project Name</b>	<b>Estimated Project Cost</b>
Engstrom North Extension to Tex Al (New TIP24)	\$6,100,000
Johnsons Road Upgrade (New TIP24)	\$3,300,000
Settlers Bay Drive Pavement Preservation (New TIP24)	\$2,700,000
Lakeview Road Pavement Preservation (New TIP24)	\$920,000
Green Forest Drive Reconstruction (TIP23)	\$6,200,000
School Site Traffic and Safety Improvements: Shaw Elementary School (TIP23)	\$12,000,000
King Arthur Drive Reconstruction (TIP23)	2,100,000
Hemmer Road Extension South (TIP21)	\$6,500,000
Fern Street Reconstruction (TIP21)	\$4,000,000
Lucille Street Reconstruction (TIP21)	\$4,000,000
Tex Al Drive Extension (TIP21)	\$4,000,000
<b>Total</b>	<b>\$51,820,000</b>

The first four projects listed above are new. These four new projects (Engstrom North Extension to Tex Al, Johnsons Road Upgrade, Settlers Bay Drive Pavement Preservation, and Lakeview Road Pavement Preservation) will be placed on the November 5, 2024 ballot to be approved by voters for 100 percent bonding by MSB at a cost of \$13,020,000.

The next three projects listed above (Green Forest Drive Reconstruction, School Site Traffic and Safety Improvements: Shaw Elementary School, and King Arthur Drive Reconstruction) were approved by the voters in TIP23. However, the voter approval under TIP23 required the MSB to receive a 50 percent match before the MSB could sell bonds for the projects. This match was never obtained. Therefore, these projects will be placed on the November 5, 2024, ballot to be approved by voters for 100 percent bonding by the MSB with no match required at a cost of \$20,300,000.

The final four projects listed above (Hemmer Road Extension South, Fern Street Reconstruction, Lucille Street Reconstruction, and Tex-Al Drive Extension) were approved by the voters in TIP21 for

100 percent bonding by the MSB. These projects will not be presented to the voters again for approval, but rather, these projects will require Assembly approval to sell bonds in the amount of \$18,500,000 to allow for project completion. They are being noted here because they are part of the overall work planned to be performed under TIP 24, and it is the intent of Borough Administration to seek approval to sell bonds under the previous voter approval.

The total for all eleven proposed projects listed above is \$51,820,000. As noted, \$18,500,000 of this total will need bond sale authority from the Assembly, but will not need to be on the ballot again. Voter approval is needed for \$33,320,000 of this total on the November 5, 2024 ballot for 100 percent funding.

Below is the list of projects for the November 5, 2024 ballot:

<b>Project Name</b>	<b>Estimated Project Cost</b>
Engstrom North Extension to Tex Al	\$6,100,000
Johnsons Road Upgrade	\$3,300,000
Settlers Bay Drive Pavement Preservation	\$2,700,000
Lakeview Road Pavement Preservation	\$920,000
Green Forest Drive Reconstruction	\$6,200,000
School Site Traffic and Safety Improvements: Shaw Elementary School	\$12,000,000
King Arthur Drive Reconstruction	2,100,000
<b>Total</b>	<b>\$33,320,000</b>

If approved by the voters, annual debt service payments on the \$33,320,000 in bonds is anticipated to be \$2,566,000. This is an estimate because interest rates, market factors, and the term of the bonds influence the actual annual payment. The corresponding FY2025 areawide real property mill rate levy to pay the annual debt services is approximately .183 mills. However, it should be noted that if this measure is approved, any areawide source of revenue can be used to pay the bonds.

To give a complete picture, if the voters approve the current ballot proposition in 2024, and the Matanuska-Susitna Borough Assembly approves issuing the additional \$18,500,000 in debt previously approved in TIP21, annual debt service payments on the

total amount of \$51,820,000 in bonds is anticipated to be \$3,990,500. This is an estimate because interest rates, market factors, and the term of the bonds influence the actual annual payment. The corresponding FY2024 areawide real property mill rate levy to pay the total annual debt services is approximately .285 mills.


**RECOMMENDATION OF ADMINISTRATION:** Introduce and set for public hearing.

**MATANUSKA-SUSITNA BOROUGH**

**FISCAL NOTE**

Agenda Date: July 16, 2024

**SUBJECT: AN ORDINANCE OF THE MATANUSKA-SUSITNA BOROUGH ASSEMBLY RELATING TO THE CONSTRUCTION, ADDITIONS, IMPROVEMENTS, BETTERMENTS, REPAIR, RECONSTRUCTION, OR ACQUISITION OF PUBLIC ROADS AND PATHWAYS AND FACILITIES RELATED THERETO IN THE MATANUSKA-SUSITNA BOROUGH, TOGETHER WITH ALL NECESSARY EQUIPMENT AND TRANSPORTATION FACILITIES INCLUDING IMPROVING SCHOOL ACCESS, AND THE ACQUISITION OF LANDS OR RIGHTS IN LANDS IN CONNECTION THEREWITH; AND A DEBT OF THE BOROUGH, AUTHORIZING THE ISSUANCE OF AREAWIDE GENERAL OBLIGATION BONDS OF THE BOROUGH IN AN AMOUNT NOT TO EXCEED THE SUM OF \$33,320,000, TO FINANCE THE COST, IN WHOLE OR IN PART, OF SUCH PUBLIC ROADS, FACILITIES, AND LANDS, AND SUBMITTING THE PROPOSITION TO THE VOTERS AT THE NOVEMBER 5, 2024, REGULAR BOROUGH ELECTION.**

FISCAL ACTION (TO BE COMPLETED BY FINANCE)	FISCAL IMPACT <b>YES</b> NO
AMOUNT REQUESTED \$33,320,000.00	FUNDING SOURCE ARA, State, Federal, and Local
FROM ACCOUNT # 430.000.000 XXX.XXX	PROJECT
TO ACCOUNT: 430.000.000 XXX.XXX	PROJECT #
VERIFIED BY:  X Merissa Carrell Signed by: Merissa Carrell	

**EXPENDITURES/REVENUES:** (Thousands of Dollars)

OPERATING	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
Personnel Services						
Travel						
Contractual						
Supplies						
Equipment						
Land/Structures						
Grants, Claims						
Miscellaneous						
TOTAL OPERATING						

CAPITAL						
---------	--	--	--	--	--	--

REVENUE						
---------	--	--	--	--	--	--

**FUNDING:** (Thousands of Dollars)

General Fund			* →			
State/Federal Funds						
Other						
TOTAL						

**POSITIONS:**

Full-Time						
Part-Time						
Temporary						

**ANALYSIS:** (Attach a separate page if necessary) \*First Debt service payment to be made in FY26

APPROVED BY:

7 / 2 / 2 0 2 4

X C h e y e n n e H e i n d e l

S i g n e d b y : C h e y e n n e H e i n d e l

# Matanuska-Susitna Borough

## Public Works Department

### Transportation Infrastructure Program 2024

(TIP24)





**MATANUSKA-SUSITNA BOROUGH**  
**TRANSPORTATION INFRASTRUCTURE PROGRAM 2024**  
**(TIP24)**

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## Executive Summary

### Transportation Infrastructure Program 2024

The Matanuska-Susitna Borough (MSB) has experienced substantial and sustained growth for the last decade resulting in increased traffic volumes, congestion, and safety issues on the existing road network.

The MSB's Transportation Infrastructure Program 2024 (TIP24) is a package of projects that aims to reduce traffic congestion, support economic development, improve connectivity, enhance pedestrian and vehicle safety, increase reliability, and provide transportation choices for residents. Many of these projects are identified in the MSB's Long Range Transportation Plan (LRTP), Official Highway and Streets Plan (OSHP), and Safe Routes to Schools Program (SRTS).

### Nomination Process

In choosing roads to nominate for TIP24, roadways that serve as major corridors and/or provide connections between high functional classification roadways or important facilities were prioritized. A few large-scale projects were chosen based on identifying key missing roadway links mentioned in the LRTP and OSHP that will serve to improve overall transportation network in the MSB.

In addition to the large-scale projects mentioned above, many nominations for TIP24 came from projects approved by the voters and the assembly in TIP21 and TIP23. Many of these projects have designs and preliminary engineering completed to 100%. These projects are short on funding due to increased materials cost, increased fuel costs, and the TIP23 projects requiring a 50% match from sources other than the MSB.

To complete the TIP 24 package, some much needed pavement preservation projects were also nominated. The nominated pavement preservation projects consist of roadways with failed pavement that are currently carrying high levels of traffic.

### Review and Approval Process

Following project nominations, an approval process took place. The proposed projects were reviewed by the Borough Manager (Mike Brown), Public Works Director (Tom Adams), Finance Director (Cheyenne Heindel), Planning Director (Alex Strawn), and the Law Department. Some considerations discussed were whether a project was also eligible for other funding sources such as ADOT&PF's Community Transportation Program, ADOT&PF's Highway Safety Improvement Program, federal funding, or other grant sources. The Pre-Design & Engineering Division of the Public Works Department (PD&E) revised the TIP24 list of projects based on these recommendations and compiled a final list of TIP24 projects to be presented to the MSB Assembly and MSB residents.

### Project Programming

TIP24 comprises projects divided into phases, scheduled according to the time estimated to accomplish each phase and the funding needed. Each project is broken into five (5) phases as follows:

1. Preliminary Engineering
2. Design

3. Right-of-Way
4. Utilities
5. Construction

**Preliminary Engineering, Phase 1** – This phase includes all engineering and support work necessary for the design phase. The Preliminary Engineering tasks may include the following:

- Identify the problem or deficiency to be solved (Purpose and Need Statement)
- Research and acquire existing data
- Identify and develop alternatives
- Prepare schematic plans as necessary to convey information to support groups, agencies, and the public
- Identify environmental issues
- Prepare cost estimates
- Public Involvement
- Permitting

**Design, Phase 2** - The design phase outlines a project and through increasingly detailed steps, refines the project to develop highly specific project plans that construction contractors use to guide their work.

**Right-of-Way, Phase 3** – During the design phase, right-of-way (ROW) staff review plans, appraise the fair market value of land needed, negotiate property acquisitions, relocate displaced persons or businesses, and certify the MSB's ownership or land interest.

**Utilities, Phase 4** – During the utilities phase, adjustments and relocations necessary to avoid utility conflict with the project (which may warrant revising design) are determined. If relocation is required, each utility is responsible for the design of changes to their facilities, preparation of plans and cost estimates that support their relocation agreement. Relocations are typically performed by the utility company or by a contractor managed by the utility.

**Construction, Phase 5** - The construction phase includes all activities involved in building or altering an existing road, path, or structure including clearing land, demolition, excavation, moving material to establish curve and grade, drainage, fill, pavement, erection of bridges, guardrails, traffic signals, lighting, culverts, traffic control, and other related construction activities. Depending on the project and location, it may include temporary detours, steps to prevent or mitigate environmental problems, and landscaping. Construction may take anywhere from a few days or weeks to several years to complete.

The length of each phase will vary from project to project. Some projects require all phases, while others may need only the design and construction phases. If a project is complex, it may consist of several intermediate steps. The life of a project, from identification to completion, may take a few months to many years.

### **Purpose of this Document**

The purpose of this document is to describe the projects, provide the estimated costs, and detail the anticipated schedule for TIP24 projects. See Appendix A for the Cost Summary Table.

# Engstrom North Extension to Tex Al

**Assembly District:** 1

**Road Service Area:** No. 16, 25, 28

**Description:** Construct an upgraded two-lane major collector from the northern terminus of Engstrom Road to its intersection with Tex Al Drive.

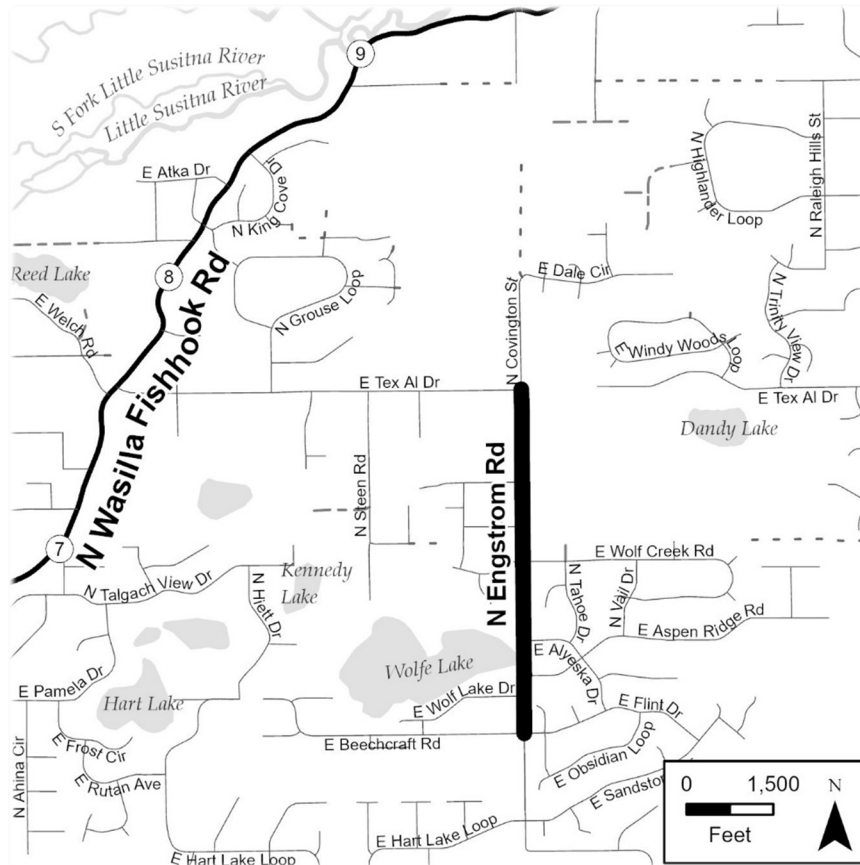
**Purpose:** Congestion Relief, Safety

**Length:** 0.9 miles

**OSHP 2022 Classification:** Major Collector

**Estimated Total Cost:** \$6,100,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering	\$305,000				
Design	\$610,000				
Right-of-Way		\$600,000			
Utilities		\$305,000			
Construction		\$2,000,000	\$2,280,000		
<b>Year Totals:</b>	<b>\$915,000</b>	<b>\$2,905,000</b>	<b>\$2,280,000</b>		



## Johnsons Road Upgrade

**Assembly District:** 5

**Road Service Area:** No. 27

**Description:** Reconstruction of Johnson Road from Hollywood Road to the Parks Highway. Project includes grading, drainage, signing, paving, shoulder widening, structural section replacement.

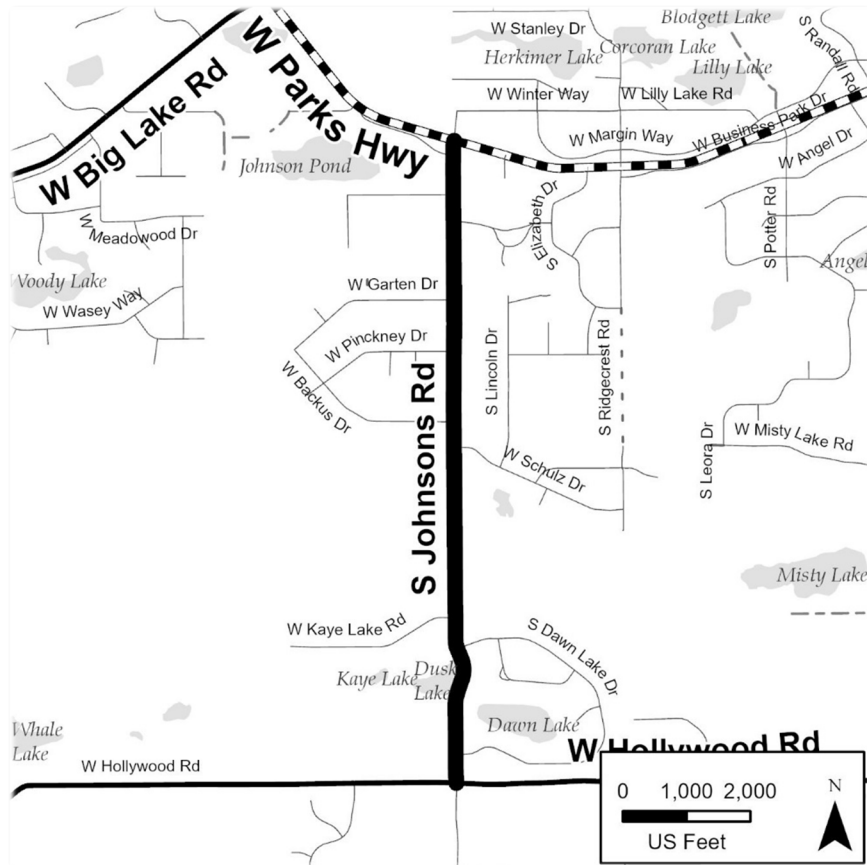
**Purpose:** Improve connectivity, enhance pedestrian and vehicle safety, increase reliability of transportation system

**Length:** 1.92 miles

**OSHP 2022 Classification:** Major Collector

**Estimated Total Cost:** \$3,300,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering	\$165,000				
Design	\$330,000				
Right-of-Way		\$750,000			
Utilities		\$165,000			
Construction		\$1,890,000			
<b>Year Totals:</b>	<b>\$495,000</b>	<b>\$2,805,000</b>			



## Settlers Bay Drive Pavement Preservation

**Assembly District:** 3

**Road Service Area:** No. 17

**Description:** Resurface Settlers Bay Drive from Knik Goose Bay Road to Turner Drive including pavement planing, paving, drainage improvements, guardrail, signing, and striping.

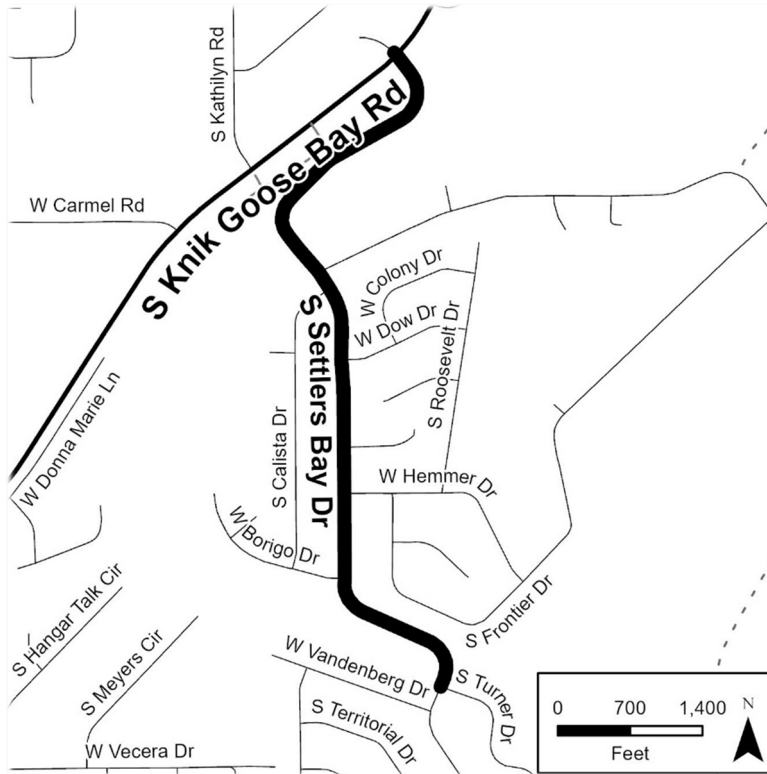
**Purpose:** Enhance pedestrian and vehicle safety, increase reliability of transportation system

**Length:** 1.44 miles

**OSHP 2022 Classification:** Major Collector

**Estimated Total Cost:** \$2,700,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering	\$135,000				
Design	\$270,000				
Right-of-Way					
Utilities	\$135,000				
Construction		\$2,160,000			
<b>Year Totals:</b>	<b>\$540,000</b>	<b>\$2,160,000</b>			



## Lakeview Road Pavement Preservation

**Assembly District:** 6

**Road Service Area:** No. 25

**Description:** Resurface Lakeview Road from Wasilla Fishhook Road to Seldon Road including pavement planing, paving, drainage improvements, guardrail, signing, and striping. This corridor is heavily used by traffic to move between Wasilla Fishhook Road and Seldon Road.

**Length:** 1.08 miles

**OSHP 2022 Classification:** Minor Collector

**Estimated Total Cost:** \$920,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering	\$46,000				
Design	\$92,000				
Right-of-Way					
Utilities	\$46,000				
Construction		\$736,000			
<b>Year Totals:</b>	<b>\$184,000</b>	<b>\$736,000</b>			



# Green Forest Drive Reconstruction

**Assembly District:** 4

**Road Service Area:** No. 25

**Description:** Reconstruct Green Forest Drive including grading, drainage, signing, paving, and structural section replacement. This corridor is heavily used by traffic to move between Bogard Road and Palmer-Wasilla Highway. The road was originally constructed as a local residential road, not designed for the current traffic load. The proposed improvements will upgrade the road to collector standards.

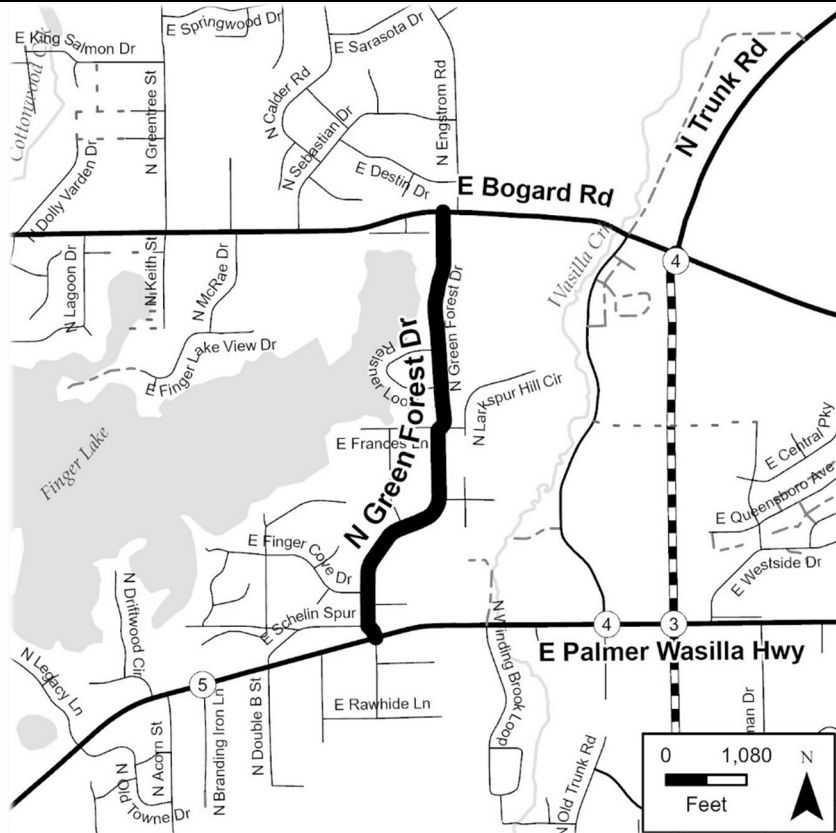
**Purpose:** Reduce traffic congestion, improve connectivity, enhance pedestrian and vehicle safety, increase reliability of transportation system

**Length:** 1.2 miles

**OSHP 2022 Classification:** Minor Collector

**Estimated Total Cost:** \$6,200,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering	\$310,000				
Design	\$620,000				
Right-of-Way		\$500,000			
Utilities		\$310,000			
Construction		\$2,000,000	\$2,460,000		
<b>Year Totals:</b>	<b>\$930,000</b>	<b>\$2,810,000</b>	<b>\$2,460,000</b>		





## School Site Traffic and Safety Improvements: Shaw Elementary School

**Assembly District:** 6

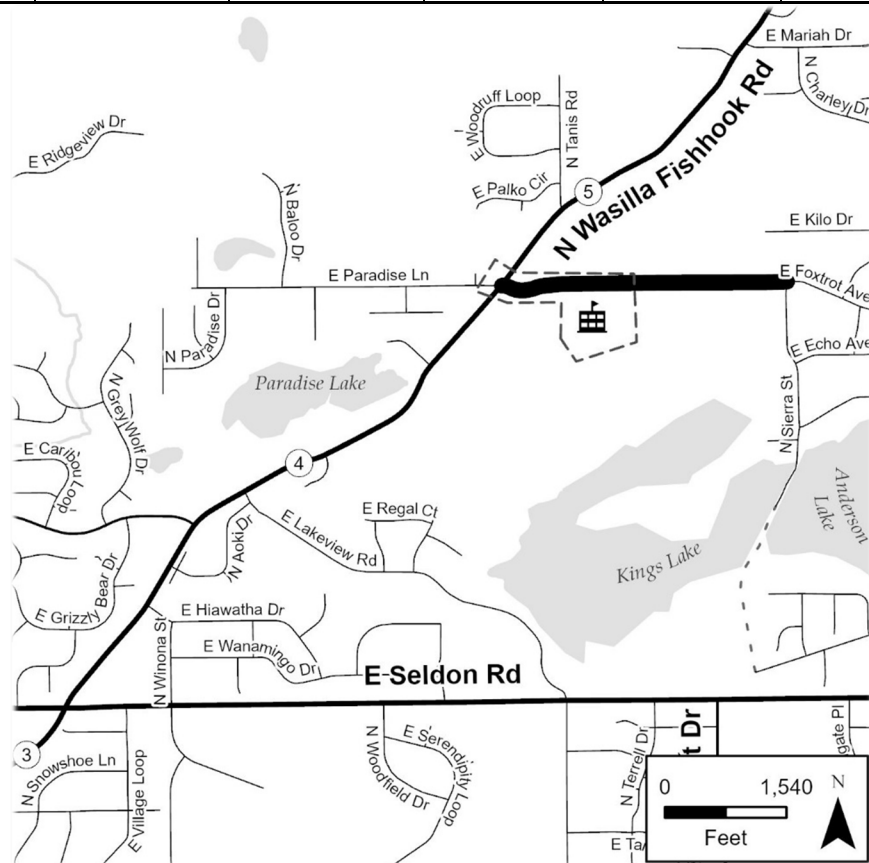
**Road Service Area:** No. 25

**Description:** Reconstruct access to Shaw Elementary School, improve onsite circulation, and construct access to Foxtrot Avenue to the east. This school experiences significant traffic congestion backing traffic up onto Wasilla Fishhook Road. The borough property the school is located on is scheduled to be the site of an additional school. The improvements proposed in this project will help to alleviate the traffic congestion issue.

**Purpose:** Reduce traffic congestion, improve connectivity, enhance pedestrian and vehicle safety, increase reliability of transportation system.

**Estimated Total Cost:** 12,000,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering	\$600,000				
Design	\$1,200,000				
Right-of-Way		\$750,000			
Utilities		\$600,000			
Construction		\$2,000,000	\$6,850,000		
<b>Year Totals:</b>	<b>\$1,800,000</b>	<b>\$3,350,000</b>	<b>\$6,850,000</b>		



# King Arthur Drive Reconstruction

**Assembly District:** 7

**Road Service Area:** City of Houston

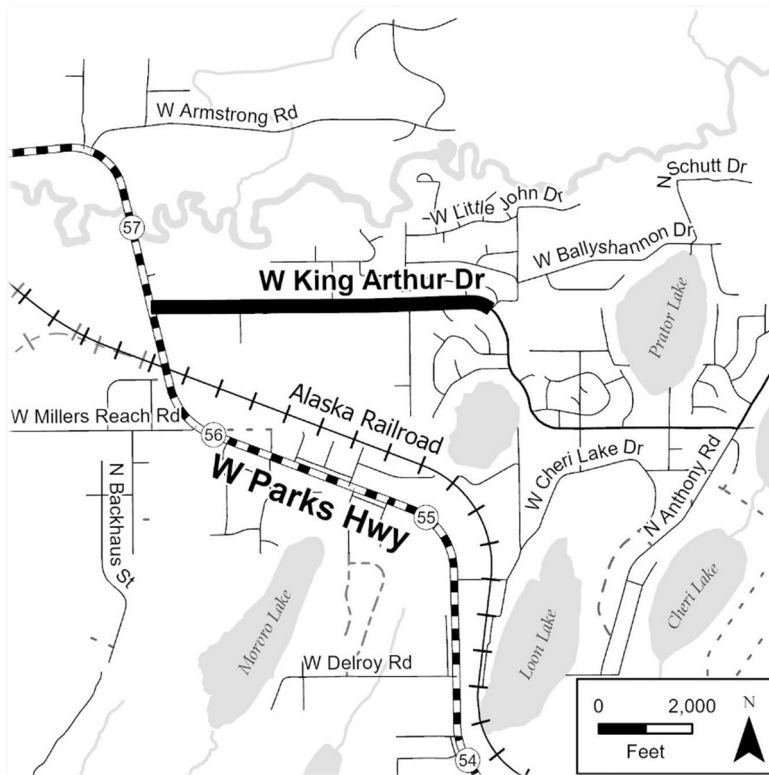
**Description:** Reconstruct King Arthur Drive from Parks Highway to No Name Hill Drive including grading, drainage, signing, paving, shoulder widening, and structural section replacement. This corridor is a major east-west link between the Parks Highway and Meadow Lakes, an area experiencing significant growth. King Arthur Drive experienced substantial flooding in 2022 causing significant roadway damage. FEMA will be providing funding to help cover reconstruction of the flood damaged segment.

**Purpose:** Enhance pedestrian and vehicle safety, increase reliability of transportation system.

**OSHP 2022 Classification:** Major/Minor Collector

**Estimated Total Cost:** \$2,100,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering	\$105,000				
Design	\$210,000				
Right-of-Way					
Utilities	\$105,000				
Construction		\$1,680,000			
<b>Year Totals:</b>	<b>\$420,000</b>	<b>\$1,680,000</b>			



# Hemmer Road Extension South

**Project No.:** 35472-1805

**Assembly District:** 2

**Road Service Area:** No. 16

**Description:** Construct a new road from Valley Pathways at the end of France Road to intersect with the signalized intersection at the Palmer-Wasilla Highway and Hemmer Road.

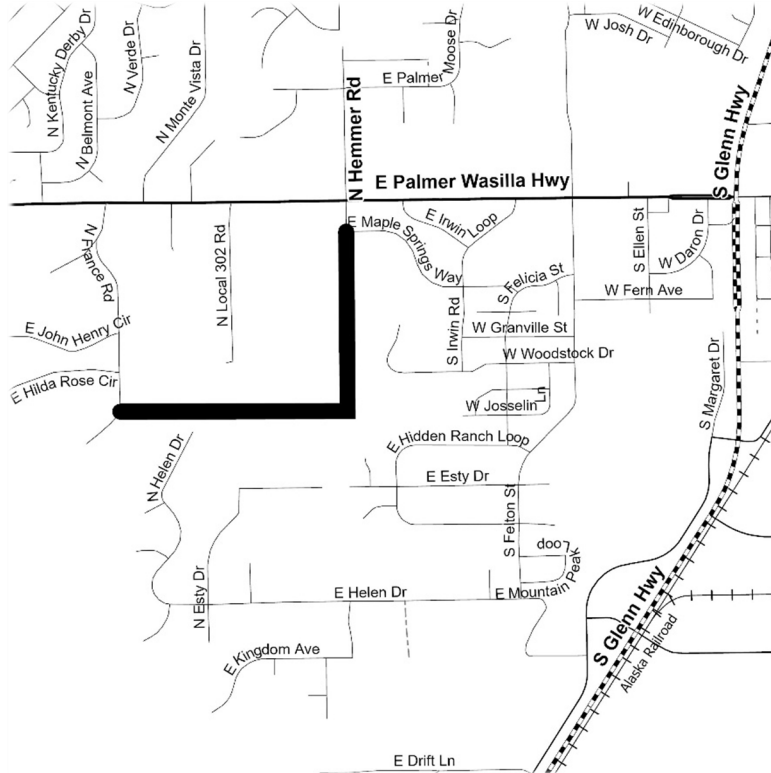
**Purpose:** Reduce traffic congestion, improve connectivity, enhance pedestrian and vehicle safety, increase reliability of transportation system and provide transportation choices for residents.

**Length:** 1.0 mile

**OSHP 2022 Classification:** Major Collector

**Estimated Total Cost:** \$6,500,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering					
Design					
Right-of-Way					
Utilities					
Construction		\$3,500,000	\$3,000,000		
Year Totals:		\$3,500,000	\$3,000,000		



## Fern Street Reconstruction

**Project No.:** 35472-1817

**Assembly District:** 3 & 4

**Road Service Area:** Fairview No. 14, City of Wasilla, & State of Alaska

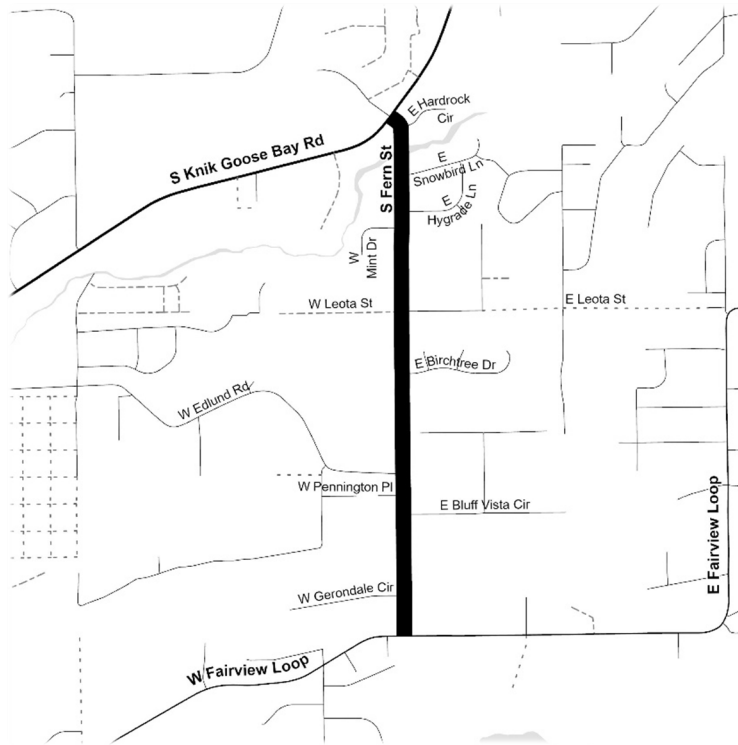
**Description:** Upgrade Fern Street between Knik-Goose Bay Road and Fairview Loop Road, creating an upgraded north-south collector route and pedestrian pathway.

**Purpose:** Reduce traffic congestion, improve connectivity, enhance pedestrian and vehicle safety, increase reliability of transportation system and provide transportation choices for residents.

**Length:** 1.7 miles

**Estimated Total Cost:** \$4,000,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering					
Design					
Right-of-Way					
Utilities					
Construction	\$2,000,000	\$2,000,000			
Year Totals:	\$2,000,000	\$2,000,000			



## Lucille Street Reconstruction

**Project No.:** 35472-1808

**Assembly District:** 6

**Road Service Area:** Gold Trail No. 28

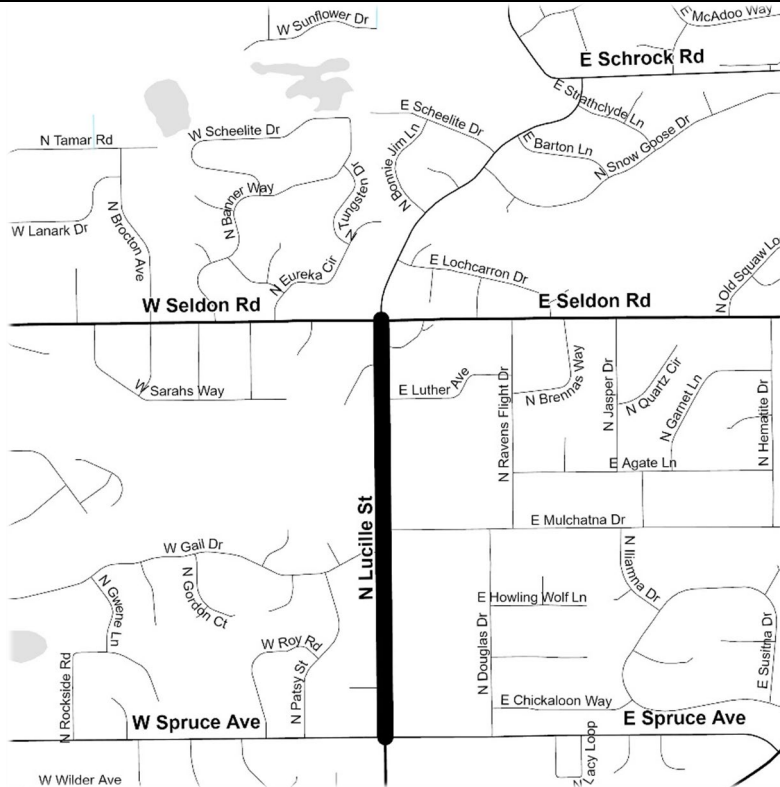
**Description:** Improve Lucille Street and the pathway from Spruce Street to Seldon Road and provide a turn lane for Tanaina Elementary School.

**Purpose:** Reduce traffic congestion, enhance pedestrian and vehicle safety, increase reliability of transportation system and provide transportation choices for residents.

**Length:** 0.9 mile

**Estimated Total Cost:** \$4,000,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering					
Design					
Right-of-Way					
Utilities					
Construction		\$2,000,000	\$2,000,000		
Year Totals:		\$2,000,000	\$2,000,000		



## Tex Al Drive Extension

**Project No.:** 35472-1809

**Assembly District:** 1

**Road Service Area:** South Colony No. 16 & Gold Trail No. 28

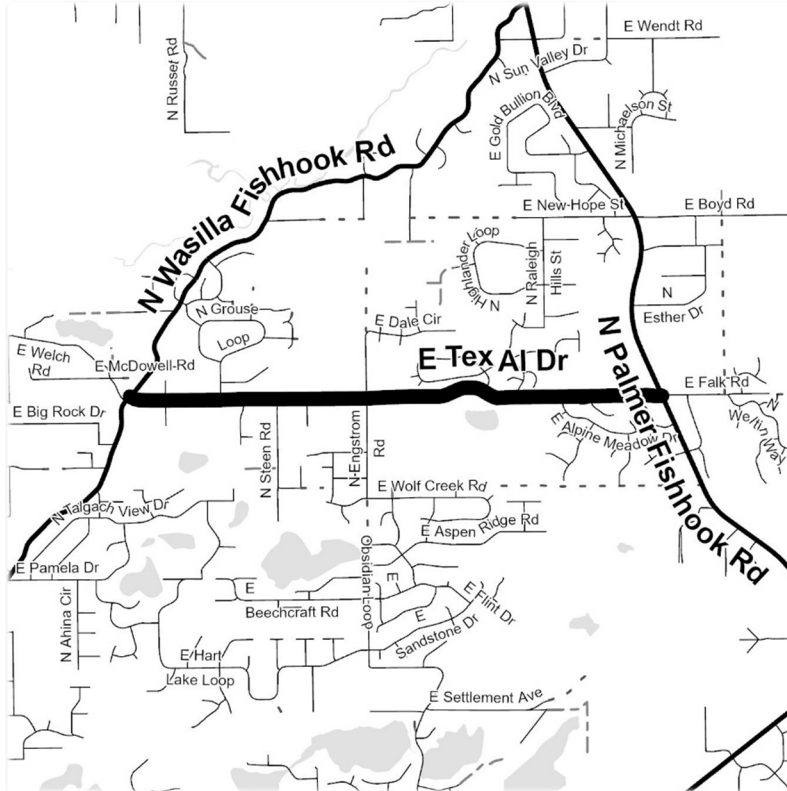
**Description:** Construct an upgraded two-lane major collector from Wasilla Fishhook Road to its existing terminus. Extend Tex Al Drive east to Palmer Fishhook Road.

**Purpose:** Reduce traffic congestion, improve connectivity, enhance pedestrian and vehicle safety, increase reliability of transportation system and provide transportation choices for residents.

**Length:** 3.0 miles

**Estimated Total Cost:** \$4,000,000

Phase	2025	2026	2027	2028	2029
Preliminary Engineering					
Design					
Right-of-Way					
Utilities					
Construction			\$2,000,000	\$2,000,000	
Year Totals:			\$2,000,000	\$2,000,000	



## **Appendix A: Cost Summary Table**

<b>Project Name</b>	<b>TIP23 Estimate</b>	<b>Type</b>	<b>Assembly District</b>	<b>RSA</b>
Engstrom North Extension to Tex Al	\$6,100,000	New Construction	1	25
Johnsons Road Upgrade	\$3,300,000	Reconstruction	5	27
Settlers Bay Drive Pavement Preservation	\$2,700,000	Pavement Preservation	3	17
Lakeview Road Pavement Preservation	\$920,000	Pavement Preservation	6	25
Green Forest Drive Upgrade	\$6,200,000	Reconstruction	4	25
School Site Traffic and Safety Improvements: Shaw Elementary School	\$12,000,000	New Construction	6	25
King Arthur Drive Reconstruction	\$2,100,000	Reconstruction	7	City of Houston
Hemmer Road Extension South	\$6,500,000	New Construction	2	16
Fern Street Reconstruction	\$4,000,000	Reconstruction	3, 4	14
Lucille Street Reconstruction	\$4,000,000	Reconstruction	6	28
Tex Al Drive Extension	\$4,000,000	New Construction	1	16, 28