

# Matanuska-Susitna Borough Capital Improvement Program FY 2018-2023 Assembly Draft



Fronteras Spanish Immersion Charter School

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# *Executive Summary*

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## *PURPOSE AND BENEFITS*

A Capital Improvement Program (CIP) is a multi-year planning instrument that drives the evaluation and identification of capital infrastructure projects in need of renovation, repair, and/or construction. The purpose of a CIP is to forecast a municipalities' capital needs over a short term period to allow for adequate planning, acquisition of funds, and project execution. This process relies on communities, staff, and policy makers to identify and forecast capital needs through a public process. Plans typically range from four to six years; the Matanuska-Susitna Borough (Borough) has selected a six year planning window.

The Borough Planning Department is tasked with the "development of capital improvement plans" in Borough code (MSB 2.36.020A3). The specifics of the CIP are described in MSB 3.04.060. The Borough's long range goal is to provide a mapping component to the program. Planning, Capital Projects and Geographic Information System (GIS) staff are working together to accomplish this task of combining the CIP with spatial data which will increase transparency in government, provide better accessibility of the information to the public, and utilize existing GIS data to provide more information about each project contained in the plan.

## *PROCESS*

The first step in the FY 2018-2023 process was to provide project lists to Borough departments and community councils. Some projects were removed, and some new projects were added. All of the projects were then reviewed for appropriateness, the master spreadsheet was updated, review panels were convened for each section if there were new nominations, and draft priority lists were submitted to the Transportation Advisory Board, Parks, Recreation and Trails Board, Aviation Advisory Board, Port Commission and Planning Commission for their input, and submission of the final document to the Borough Assembly for approval. The Parks, Recreation and Trails Board were unable to establish a quorum in June and July and therefore could not review the nominations. They did however, review them last year and there are minimal changes to those lists.

The review criterion was a weighted numerical matrix of 11 factors ranging from health and safety to economic development. In some instances projects in the same category scored the same total, creating a tie. Those ties are noted in this report.

The review criteria exist to create an objective layer of evaluation, but the citizen advisors who serve as volunteers on the Borough's advisory boards are in a position to provide relevant data about the nominations not available to staff. In some cases the advisory boards, after substantial debate, re-ranked the priority of nominations to reflect that knowledge. This added another "truthing" layer to the entire process.

## FUNDING SOURCES

A variety of funding mechanisms are used to accomplish projects in the CIP. These include State grants, general revenue and federally funded programs, general obligation bonds, Borough funds, and private funding sources. Another benefit of the CIP is an identified, public vetting process which most funders typically require. Federal funding has been crucial to the development of local, state and federal roads in the Borough over the past several years, but has been declining of late. The State of Alaska's current budget situation makes state funding highly unlikely for the foreseeable future.

## PROJECTS

There are a total of 219 projects contained in the FY 2018-2023 CIP. These projects are public in nature, over a \$50,000 threshold, not in conflict with an established process (such as siting schools), and generally construct, modify, replace, or plan an activity. Nominations were accepted from cities, community councils, staff members, advisory boards, and a few members of the general public.

Due to the six-year window of the program, it is necessary to set a maximum of ten (10) priority projects in each category. The priority list may change from year to year based on new information, funding sources, or a change in policy direction. Some categories had more than ten project nominations; in those instances, a needs list of the remaining projects was created to show the perceived total needs in the Borough.

The main portion of the document contains further information about all projects including a brief description, a specific Borough CIP identification number, the project nominator (who nominated the project), and funding needed, if known. Not all projects have a specific dollar amount attached at the CIP phase. In many cases, costs are one of the first stages of project development and will be developed as the project moves toward completion.

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# National Highway System

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## Road Classification Information

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In order to organize projects and make valid comparisons, the Capital Improvement Program uses generally accepted road classifications. Basic to this process is the recognition that roads, streets, and trails do not exist independently; rather, transportation moves people through a network of roads. Functional classification is the "process by which streets and highways are grouped into classes, or systems, according to the character of service they are intended to provide." In basic terms, a road can be functionally classified as:

**Arterial:** These roads provide mobility so traffic can move from one place to another quickly and safely. These are major roads in the community.

**Collector:** These roads link arterials and local roads, and perform some duties of each.

**Local:** These roads provide access to homes, businesses, and other property.

## Priority Projects

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1. Tie - Knik-Goose Bay Road Reconstruction, 4 Lane - MP .3-6.8, Centaur to Vine (CIP #54)  
Tie - Parks Highway - Lucas Road to Big Lake Improvements - MP 43.5-52.3 (CIP #55)
2. Glenn Highway - Erosion Protection - MP 66.6-92 (CIP #120)
3. Glenn Highway - Rehabilitation - King River to Cascade - MP 66.5-92 (CIP #12)
4. Knik-Goose Bay Road Reconstruction, 4 Lane - Vine to Settler's Bay (CIP #19)
5. Glenn Highway - Parks to Arctic Renovation, 4 Lane - MP 34-42 (CIP #10)
6. Palmer-Wasilla Highway Eastern Terminus (CIP #52)
7. Palmer-Wasilla Highway Center Turn Lane Widening (CIP #155)
8. Glenn Highway - Moose Creek Canyon Reconstruction - MP 53-56 (CIP #13)
9. Parks Highway Wasilla Alternative Corridor - Advance ROW Acquisition (CIP #8)

## Project Descriptions

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### 1. Tie - Knik-Goose Bay Road Reconstruction, 4 Lane - MP .3-6.8, Centaur to Vine

(STIP #24596; CIP ID #54)

*Nominators: State of Alaska, MSB Capital Projects, Point MacKenzie Community Council*

The project anticipates a four lane, divided highway upgrade of Knik-Goose Bay Road from MP .3, Centaur Avenue to MP 6.8, Vine Road, which will handle increasing residential, commercial, and industrial traffic loads. The road is currently classified as a Traffic Safety Corridor by the State with the highest fatal and major injury accident rate in the Borough. The scope of work includes separated bike/pedestrian facilities, safety engineering strategies, such as rumble strips, and reducing and combining access points that are determined to be the most effective at reducing crashes. Construction is anticipated in 2019.

**Funding Needed: \$108 Million**

### 1. Tie - Parks Highway - Lucus Road to Big Lake Improvements - MP 43.5-52.3

(STIP #111961; CIP ID #55)

*Nominator: State of Alaska*

This project will widen the Parks Highway to four lanes with attendant traffic and safety improvements between Wasilla and the Big Lake Cutoff. Bridge No. 1922, the Wasilla Railroad Crossing, is included in the project. This road corridor has been designated a Traffic Safety Corridor by the State due to the high number of accidents and fatalities. In addition to heavy local traffic, the Parks Highway is the primary road connection between Anchorage and Fairbanks, and handles a considerable amount of commercial truck traffic. The design and right-of-way were funded in FY12, with construction dollars slated for FY14, FY15, and FY16. The project has three phases: 1) Lucus Road to Church Road (under construction in 2014), 2) Church Road to Pittman Road, and 3) Pittman Road to Big Lake Road. Total project cost is \$167,889,600.

**Funding Needed: \$95.9 Million**

### 2. Glenn Highway - Erosion Protection - MP 66.6-92

(STIP 28089; CIP ID #120)

*Nominator: MSB Capital Projects*

There are six locations along the Glenn Highway between Sutton and Chickaloon where the road is susceptible to erosion and failure under normal flow conditions in the braided sections of the Matanuska River. This major highway corridor serves local, State, national, and international transport of people and goods. It is the main link between Alaska's largest community, Anchorage, and the lower 48 states, and Canada. Failure of the roadway would cause serious injury or death to anyone present when the road embankment fails. Economically, a road failure would close the road and cut off this important surface transportation link, which carries freight to and from Southcentral Alaska. Socially, a closure of the Glenn Highway would isolate residents of Sutton, Chickaloon, Glacier View, and beyond from the business centers, and where many of them work, shop, purchase food, attend school, etc. Reconstruction or rehabilitation is part of the STIP program for several segments of the Glenn Highway, which encompasses these spots, including Bridge No. 545 over the Chickaloon River.

**Funding Needed: \$11.8 Million**

### 3. Glenn Highway - Rehabilitation - King River to Cascade - MP 66.5-92

(STIP # 28089, #29930, #29931, #30396; CIP ID #12)

*Nominator: State of Alaska*

This project combines two previous projects on the Glenn Highway to preserve and extend the service life of the highway, enhance safety, and evaluate the need for climbing lanes and passing lanes. The major realignments will be near Fish Lake Road (MP 72) and the Chickaloon River (MP 78). The project includes enhancements to Long Lake Wayside, and includes Bridge No. 0546 Purinton Creek. Thousands of travelers use the Glenn Highway as one of the primary routes into Alaska; numerous Borough residents use the road daily. As an interstate road the Glenn Highway is also crucial to interstate commerce. The project is included in the State and Borough's Long Range Plans. Current State funding shows right-of-way acquisition beginning in FY14, and construction after FY15.

**Funding Needed: \$58.5 Million**

#### **4. Knik-Goose Bay Road Reconstruction, 4 Lane - Vine to Settler's Bay**

**(STIP #23616; CIP ID #19)**

*Nominators: State of Alaska, Pt. MacKenzie Community Council*

The project anticipates a four lane, divided highway upgrade of Knik-Goose Bay Road from mile 6.8, Vine Road to Settler's Bay Road which will handle increasing residential, commercial, and industrial traffic loads. The road is currently classified as a Traffic Safety Corridor by the State with the highest fatal and major injury accident rate in the Borough. All residents of the Knik/Fairview/Point MacKenzie communities, employees commuting from Wasilla to Port MacKenzie and commercial truck traffic will benefit from the improvements. Construction anticipated in August 2017

**Funding Needed: \$35 Million**

#### **5. Glenn Highway - Parks to Arctic Renovation, 4 Lane - MP 34-42**

**(STIP #11959; CIP ID #10)**

*Nominator: State of Alaska*

Thousands of travelers use this major highway to commute to work and for local traffic and are plagued with extremely long turning movements particularly during the rush hours. Reconstruct roadway to four lanes, including pathways and shoulders. Accommodate turning movements and add traffic safety, and intersecting improvements as necessary (may be developed in phases). Project design and Right of Way acquisition are underway, with construction slated for 2016. The project is part of the State and Borough Long Range Transportation Plans. Project design and Right of Way acquisition are underway, with construction slated for 2018.

**Funding Needed: \$52.4 Million**

#### **6. Palmer-Wasilla Highway Eastern Terminus**

**(STIP Needs List #11959; CIP ID #52)**

*Nominator: State of Alaska*

This project advances "Alternative B" approved by a Palmer Community Committee, Palmer City Council, ADOT&PF, and the Borough Assembly to mitigate the Palmer-Wasilla Highway/Evergreen Street and Dogwood Avenue traffic congestion issue. The project will upgrade the east end of the Palmer-Wasilla Highway from Hemmer Road to the Glenn Highway. The Borough and City of Palmer Long Range Transportation Plans, and the Official Streets and Highways Plans support this project.

**Funding Needed: \$13.2 Million**

#### **7. Palmer-Wasilla Highway Center Turn Lane Widening**

**(CIP ID #155)**

*Nominator: State of Alaska/MSB*

The project will construct two-way left turn lanes the length of the Palmer-Wasilla Highway from Hemmer Road to the current 4-lane section on the west end in order to address the continued conflicts on the roadway due to the number of motorists on the roadway and turning movements. In 2010, there

were nearly 15,000 average annual daily traffic counts at the intersection of Hemmer Road, and at the intersection of Seward Meridian the average annual daily traffic count was 13,549. All these people will benefit by the extended dual turn lane down the length of the highway. The project is estimated to be completed in FY20.

**Funding Needed: \$11 Million**

#### **8. Glenn Highway - Moose Creek Canyon Reconstruction - MP 53-56**

**(STIP #2320; CIP ID #13)**

*Nominator: State of Alaska*

The reconstruction of the Glenn Highway from MP 53 to MP 56 down the Moose Creek hill will straighten a horizontal curve and includes improvements to Bridge No. 0541 at Moose Creek. The Glenn Highway is an interstate roadway and crucial to interstate commerce. Thousands of travelers use the road on a daily basis. The project is included in the State's Long Range Plan. The State DOT estimated design funding in FY12, right-of-way acquisition in FY14, and construction after FY15. The design is underway. Total project cost is \$43 Million.

**Funding Needed: \$41 Million**

#### **9. Parks Highway Wasilla Alternative Corridor - Advance ROW Acquisition**

**(STIP Needs List #19665; CIP ID #8)**

*Assembly Priority - Nominator: MSB Capital Projects*

The Parks Highway Alternative Corridor (PHAC, also known as the Wasilla Bypass,) was developed to investigate options for a bypass of the greater Wasilla area in order to relieve congestion on the Parks Highway and to avoid future expansion of the highway (six lanes minimum and costing over \$500 million) which would have significant economic and aesthetic impacts. Traffic forecasts indicate that by the year 2035 congestion on the Parks Highway between Seward Meridian Parkway and Church Road will reach levels approaching gridlock in the peak hours unless additional capacity is added for east-west traffic movements. The existing east-west arterials (Palmer-Wasilla Highway, Seldon-Bogard Road) are burdened by past land use decisions that make it difficult for the arterials to function efficiently as alternative corridors. As a result, a new east-west, controlled-access route is a critical priority if leaders wish to ensure future economic prosperity in the Mat-Su. DOT&PF has worked with the Mat-Su Borough and the City of Wasilla over the past few years to determine whether it was still possible to establish an alternative corridor. There is an approved preferred alignment identified in the Parks Highway Alternative Corridor Conceptual Planning Report. The PHAC is to be developed in Phases using State funds. The most critical Phase is preservation of the proposed corridor before development pressures result in sub-division of lands within the alignment. The Project is amenable to development in phases in order to make it more affordable. Advance acquisition of Right-of-Way is critical to preservation of the corridor alignment. Preliminary cost estimates for total right-of-way acquisition are \$25 million over multiple years.

**Funding Needed: \$10 Million**

#### **10. Interchange for Port MacKenzie Access (Knik Arm Crossing)**

**(STIP #20256 and #20255; CIP ID #57)**

*Nominators: Administration*

The Knik Arm Crossing will provide a more direct, alternate route from the MSB (Point/Port MacKenzie and beyond) to Anchorage and stimulate growth in the lower MSB. Current developments in the MSB, including Port MacKenzie, Pt. MacKenzie Rail Extension, South Big Lake Road Rail Extension, several new town sites, and the State's "Road to Resources" endeavors will benefit from the Crossing. Socioeconomic studies performed for the MSB indicate that this area will experience

significant growth, and investment in infrastructure to support that growth should begin now in order to avoid costly highway expansion as is currently being experienced on the Knik Goose Bay Road and Parks Highway corridors. Traffic generated from growth in the Port Mackenzie district will require safe and efficient access to the Knik Arm Crossing (southbound) and Point Mackenzie Road (northbound). Trucks entering traffic are slow moving and require dedicated lanes in order to safely merge into free flowing traffic. A grade separated interchange, consisting of a short bridge over the main roadway with ramp access to and from the port, will provide for the safe and efficient transition of Port traffic onto the main roadway. Right of way sufficient for future interchange access to the Port Mackenzie District has already been secured by the Knik Arm Crossing project.

***Funding Needed \$13 Million***

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# Transportation Planning

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## Priority Projects

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1. Tie - Big Lake Community Impact Assessment - Port to Parks Route, Phase 2, EIS (CIP #160)  
Tie - Port to Parks Highway at Houston (CIP #253)
2. Parks Highway - Willow Bypass Study (CIP #9)
3. Commuter Rail Corridor and Station Pre-Development Planning (CIP ID #299)
4. Inter-Governmental Comprehensive Inter-Modal Transportation Plan (CIP #156)

## Project Descriptions

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### 1. Tie - Big Lake Community Impact Assessment - Port to Parks Route, Phase 2 EIS (CIP ID #160)

*Nominator: Big Lake Community Council*

The Big Lake Comprehensive Plan identified the desire to have the major traffic corridor/route from Point MacKenzie to the Parks Highway routed around the town center of Big Lake. The Community of Big Lake successfully lobbied the State of Alaska to fund a Community Impact Study. The scope of work for the contract called for the identification of three routes and a subsequent community impact assessment of each route, specifically for the impact to the Big Lake town center area identified in the Big Lake Comprehensive Plan. The Community Council nominates this project to help ensure decision makers are aware of the study, the need for continued planning, and for future funding. Phase II of the Big Lake CIA would work toward route selection and the completion of an EIS in order to meet the requirements for federal funding as this road is intended to be a highway.

**Funding Needed: TBD**

### 1. Tie - Port to Parks Highway at Houston (CIP ID #253)

*Nominator: Beth Fread*

The "Port to Parks" road route, from Port MacKenzie to Houston near the new rail head, will support commercial and commuter traffic between Fairbanks, and the northern and western parts of the Borough. This route will provide for less congested, safer, and lower-cost maintenance requirements along the Glenn and Parks Highways between Anchorage, the Big Lake Road/Houston/Parks Highway junction, and to Palmer by re-routing traffic. The project is related to numerous other projects including the Knik Arm Crossing, the Big Lake Road Realignment, the Point MacKenzie Townsite, the Port MacKenzie Railroad Extension, and the State's "Roads to Resources" projects. Although funding for the route will need to be determined, cost savings for the project in the form of existing environmental analyses, drainage studies, and structural requirements are identified in the railroad extension project. Additionally, many potential court battles have had the precedent set for the success of developing along this route. As an alternate to the Parks Highway, federal transportation funding, drainage upgrade grants, fish and wildlife enhancement grants, and State transportation and public facilities funds should also be available for the project. Finally, the City of Houston has delivered a resolution in support of this

route, while 75% of the groups participating in a Big Lake Community Impact Assessment (CIP #160) determined that an alternate route outside the Big Lake area should be selected.

**Funding Needed: TBD**

## **2. Parks Highway - Willow Bypass Study**

(CIP ID #9)

*Nominator: Willow Area Civic Organization*

The goal of the Highway Bypass Study is to identify at least two north/south routes that could be constructed as a bypass highway around the community of Willow. By initiating the study now, and reserving available public lands, it is possible to communicate thoroughly with prospective neighbors on the routes. The goal is to avoid the risk of a sole option of a 1,000 foot expansion of the Parks Highway through the middle of the community. Trails are encouraged to get from place to place in the downtown core which would no longer be possible with a four-lane road, median, and frontage roads. Willow has numerous recreational and scenic opportunities within a short distance of the town center. Planning and identification of corridors could be accomplished within a year of receiving funding.

**Funding Needed: \$250,000**

## **3. Commuter Rail Corridor and Station Pre-Development Planning**

(CIP ID #299)

*Nominator LaMarr Anderson*

This project will generate a multi-agency coordinated plan for an Anchorage-MatSu Borough commuter rail corridor. The plan will combine elements of all pertinent plans with an anticipated outcome of identifying optimal locations for commuter rail depots along an Anchorage-Mat-Su rail corridor, exploring viable partnership options with private and public land owners at these optimal locations, and development of a recommended phasing strategy for establishing site control and suggested timing of capital construction. The City of Wasilla's recent land acquisition for placement of an intermodal transit station and the federal FAST ACT, which could provide new funding opportunities, make this project timely now. The project will 1) define a memorandum of understand/agreement between decision-makers, creating a sustainable transportation planning partnership between commuter rail stakeholders; 2) define the scope of a potential south-central Alaska commuter rail corridor plan, and 3) develop and implement the resulting plan.

**Funding Needed: Unknown**

## **4. Inter-Governmental Comprehensive Inter-Modal Transportation Plan**

(CIP ID #156)

*Nominator: Knik Tribal Council*

The project proposes to develop an Inter-modal, Inter-governmental Comprehensive Transportation Plan between the Knik Tribe, the Borough, the City of Wasilla, and MASCOT. The purpose of such a plan is to help ensure the Borough's transportation system is capable of handling expected growth in the Borough, and the transportation plans are coordinated to maximize the combined resources of each organization. Each organization's transportation plan identifies similar goals. Specific transportation improvements can be summarized in five common topical areas: roadways, railways, public transit, port development, and the recreational transportation system. The goal of this plan is to provide better and more economic transportation improvements to accommodate feasible economic development, and provide safe and efficient transportation services. This planning process will primarily affect the population within the City of Wasilla boundary, adjoining transportation infrastructure and collector routes. The end product from this plan will be included in the MSB Long Range Transportation Update.

**Funding Needed: \$2 Million**

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# Alaska Highway System

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## Priority Projects

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1. **Big Lake Intersection Improvements** (CIP #23)
2. **Point MacKenzie Road Upgrade - Knik-Goose Bay to Burma Road** (CIP #33)

## Project Descriptions

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### 1. **Big Lake Intersection Improvements**

(STIP #23233; CIP ID #23)

Road Class: Minor Arterial

*Nominator: Big Lake Community Council*

Two intersections in the downtown Big Lake area and a left turn lane at Hollywood and Big Lake Road were a part of the 2011 MSB Road Bond Package. The community council nominates this project upon the recommendation of Rep. Neumann in case of a funding shortfall. Construction of a large roundabout accessible from four roads is anticipated to begin in summer, 2016.

**Funding Needed: \$2 Million**

### 2. **Point MacKenzie Road Upgrade - Knik-Goose Bay to Burma Road**

(CIP ID #33)

Road Class: Major Collector

*Nominator: Point MacKenzie Community Council*

This seven and one-half mile stretch of road from Knik-Goose Bay to Burma Road is degraded from heavy construction traffic, and is rapidly becoming more dangerous due to increasing traffic loads with the development of Goose Creek Correctional Facility and traveling liquid natural gas trucks. Rebuilding the road bed, expanding the shoulders, and resurfacing are necessary. All residents, visitors, and employees traveling to and from the industrial and commercial development along this corridor will benefit. The project is supported by the Point MacKenzie and Big Lake Comprehensive Plans.

**Funding Needed: TBD**

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# Community Transportation Program

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## Priority Projects

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1. **MSB School Access Transportation Bond - 2013** (CIP #216)
2. **Seward Meridian Parkway Extension North - Phase 2** (CIP #51)
3. **MSB Substandard Road Improvements** (CIP #38)
4. **Museum Drive Extension (Parks Highway Connector)** (CIP #261)
5. **Fish Passage** (CIP #235)
6. **South Trunk Road Extension – Phase 1** (CIP #53)
7. **South Trunk Road Extension – Phase 2** (CIP #218)
8. **Seldon Road Extension - Phase 2** (CIP #42)
9. **Wasilla-Fishhook Road - Main Street One-Way Couplet** (CIP #32)
10. **Seldon/Bogard/Grumman Intersection Improvements** (CIP #300)

## Project Descriptions

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### 1. **MSB School Access Transportation Bond - 2013** (CIP ID #216)

*Nominator: MSB Capital Projects*

The 2013 MSB Transportation School Access bond package contains road and safety upgrades such as the Clay-Chapman/Knik Knack Mud Shack Road, Lucille Street and Pathway Upgrade, South Trunk Road Extension and Bridges, Trunk Road Connector. The package also includes two intersection improvement projects: Seward Meridian Parkway at Cottonwood Creek Elementary School and the Vine Road/Hollywood Road intersection at Knik Elementary and Goose Bay Elementary. The Clay-Chapman/Knik Knack Mud Shack Road match for \$1,600,000 was provided by the State Legislature in Fiscal Year 2015. A \$14,590,000 match is required to complete this bond package.

**Funding Needed: \$14.6 Million**

### 2. **Seward Meridian Parkway Extension North - Phase 2** (STIP #2481; CIP ID #51)

Road Type: Major Arterial

*Nominator: MSB Capital Project*

Seward Meridian Parkway is one of only two north-south arterial corridors in the Borough's transportation network. The project will upgrade the current two-lane road with no shoulder to a four-lane road with shoulders, a separated path, a bridge over Cottonwood Creek, and safety improvements

at intersections extending from the Parks Highway to Seldon Road. Phase 1, the Parks to Palmer-Wasilla Highway is complete, and Phase 2 will extend from the Palmer-Wasilla Highway to Seldon Road. With the construction of Mat-Su Day School, an addition to the Career and Technical High School, and construction of a new charter school, along with the existing Teeland Middle School, the intersection at Seward Meridian Parkway and Seldon Road, and the current intersection at Tait and Bogard Roads, are not sufficient to support the growing traffic volumes and needs of the surrounding community. Thousands of Borough residents will benefit from this project through increased efficiency of traffic flow (faster travel time, safer travel, lower levels of vehicle emissions, and improved access to businesses, schools, and emergency service facilities). The project is supported by the MSB Long Range Transportation Plan and Official Streets and Highways Plan. Design and right-of-way is ongoing. Construction is expected in 2018.

**Funding Needed: \$30 Million**

### **3. MSB Substandard Road and Bridge Improvements**

**(CIP ID #38)**

*Nominator: MSB Public Works*

Many roads and bridges within the Borough are in poor repair, lack sufficient right-of-way, sight distance, gravel base or do not meet minimum design standards: These roads are often and more frequently becoming minor arterials and collectors, and must be upgraded to accommodate the growth in traffic. These improvements will increase the overall functionality and safety of the Borough road system. One bridge is eligible for replacement and six need rehabilitation as rated by the Alaska Department of Transportation. Until the bridges are upgraded, the rating prevents delivery of essential services by heavy truck, such as heating fuel, fire suppression, and septic pumping. Many of the roads are part of community transportation plans and the Borough's Long Range Transportation Plan.

**Funding Needed: \$10 Million Annually**

### **4. Museum Drive Extension (Parks Highway Connector)**

**(STIP #2481; CIP ID #261)**

Road Type: Major Arterial

*Nominator: MSB Capital Projects*

The Parks Highway from Wasilla to Big Lake is being upgraded to a four-lane highway by the Alaska Department of Transportation and Public Facilities due to high accident rates and traffic congestion. A frontage road system is required to pull local traffic off the Parks Highway. The Borough owns collector roads that run parallel with the Parks Highway corridor and could be used as frontage roads, but the collector roads are not connected. The Borough has identified four collector roads that could be used as frontage roads that if connected, would relieve the Parks Highway of a significant amount of local traffic. Museum Drive Extension is on the four roads. The two mile project would extend Museum Drive west from Parks Highway MP 47 to intersect with Vine Road and then link to Marigold Drive at Sylvan Road. The recent rapid growth in this area has resulted in an increase in local traffic and traffic crashes.

**Funding Needed: \$4 Million**

### **5. Fish Passage**

**(CIP ID # 235)**

*Nominator: MSB Planning*

MSB's fish passage program is over a decade old and has a long history of replacing substandard culverts for fisheries as well as for better road maintenance and flood conveyance. Fish passage projects are selected according to a priority list developed by Alaska Department of Fish and Game, US Fish and Wildlife Service and the Mat-Su Borough. The next suite of high priority culverts that are currently

unfunded are on ADOT and Borough owned roads so would require a combination of state and borough funding to accomplish. The total of upstream miles opened up for salmon access is estimated to be 73.5 miles for the top 5 priority culverts. MSB can leverage state funds with federal grants and other funding sources to replace culverts over the next 3-4 years so that salmon can access critical habitats.

**Funding Needed: \$1 Million**

#### **6. Trunk Road Extension South – Phase 1**

(STIP Needs List #23229; CIP ID #53)

Road Type: Minor Arterial

*Nominator: MSB Capital Projects*

The project will provide a two-lane collector/arterial road with shoulders and pedestrian facilities needed to address increased development and growth south of the Trunk Road -Parks Highway Interchange. Phase 1 of the project will construct a roundabout at the south end of the Trunk Road – Parks Highway Interchange and an extension of Trunk Road south to the Alaska Railroad. The second phase of this project will provide a highway bridge over the railroad and a road facility that will provide for pupil transportation and access to Machetanz Elementary School located on Nelson Road. Thousands of residents and a number of businesses will ultimately benefit from this project which will provide improved access to a number of large subdivisions and a school. The project is supported by the MSB Long Range Transportation Plan and Official Streets and Highways Plan. Construction of the first phase is anticipated to be complete in 2016.

**Funding Needed: \$1 Million**

#### **7. Trunk Road Extension South – Phase 2**

(CIP ID #218)

Road Type: Residential Collector

*Nominator: MSB Capital Projects*

The project will provide collector/arterial level connections needed to address increased development and growth south of the Parks Highway. This project will provide a highway bridge over the Alaska Railroad and connect the Trunk Road Extension South constructed in Phase I to Nelson Road.

**Funding Needed: \$6.5 Million**

#### **8. Seldon Road Extension – Phase 2**

(CIP ID #42)

Road Type: Major Collector

*Nominator: Meadow Lakes Community Council/MSB Capital Projects*

Seldon Road is a two-lane, minor arterial roadway stretching for several miles in the Wasilla area. It currently terminates at Church Road. The Seldon Road Extension project will extend Seldon Road past Church Road to a proposed new intersection with Pittman Road. This 4-mile-long project will include two phases. The Seldon Road Extension – Phase I is currently funded and under construction from Seldon Road to Beverly Lake Road, with a scheduled completion in summer 2015. Seldon Road Extension – Phase II begins at Beverly Lake Road near Windy Bottom Drive and ends at Pittman Road providing access for Pittman Road area residents travelling to Wasilla, as well as providing alternative access from Pittman Road to Church Road. Funding remaining from Phase I will initiate the design and ROW acquisition for phase II. An additional \$7.5 million is needed to complete the project.

**Funding Needed: \$7.5 Million**

#### **9. Wasilla-Fishhook Road - Main Street One-Way Couplet - Partially Funded**

(STIP Needs List #2503; CIP ID #32)

Road Type: Major Arterial

*Nominator: State of Alaska*

Develop a one-way couplet in downtown Wasilla bounded by Bogard Road, Knik-Goose Bay Road/Main Street, Yenlo/Talkeetna Street, and the Palmer-Wasilla Highway. The project is the initial effort to begin addressing the capacity and safety needs of the Knik-Goose Bay corridor. Knik-Goose Bay Road is a designated Traffic Safety Corridor by the State and this project begins to address the congestion and safety concerns in the area where thousands of motorists travel daily. The project has an extensive public participation process sponsored by DOT and the City of Wasilla. Construction anticipated in 2018.

***Funding Needed: \$11.3 Million***

## **10. Seldon/Bogard/Grumman Intersection Improvements**

**(CIP ID #301)**

Road Type: Major Arterial/Minor Arterial

*Nominator: Transportation Advisory Board*

The Seldon/Bogard/Grumman Intersection is currently experiencing a long queues and travel time delays at peak traffic hours. The current intersection control is a flashing, 4-way red light, which operates like a 4-way stop. This nomination seeks further study and implementation of recommendations for this intersection to decrease travel time delays and improve level of service at peak hours. The east-west traveling public will benefit and improvements will improve safety, or perceived safety issues.

***Funding Needed: Dependent on Final Design***

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# Community Transportation Rail Project

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## 1. Port MacKenzie Rail Extension

(STIP #18820, CIP ID #58)

*Assembly Priority, Nominator: MSB Capital Projects*

Port MacKenzie is a deep water port capable of docking and loading the largest cargo vessels in the world. This shorter rail route from Interior Alaska to tidewater, the rail extension will substantially boost the export of Alaska's minerals and other natural resources helping to diversify the statewide economy. The project will create jobs, lower transportation costs and increase economic development. With a shorter distance to tidewater from the Interior, the new segment of rail will save more than \$100 million in construction costs for the State's proposed natural gas pipeline projects over existing ports. Less expensive bulk transport costs will also help stimulate the development of natural resources and mines such as the one billion ton limestone deposit near Livengood. The lower transportation costs created by the proposed rail extension coupled with the development of this limestone deposit will create a major new export related manufacturing opportunity for the production of cement; with the rail extension, Alaska will be able to produce up to 15% of the nation's annual need for cement.

The shorter mileage to tidewater will also reduce the cost of transporting coal by up to six dollars per ton, making coal from Alaska's Interior competitive on the world market. According to a study by the Institute of Social and Economic Research, the Port MacKenzie Rail Extension Project will create up to 3,400 new jobs in construction, 35 jobs in annual operations, and another 640 direct and indirect jobs. A number of private companies have leased land at Port MacKenzie and will take advantage of the rail extensions quicker transport time to the Interior including Alaska Energy which intends to import low sulfur fuel, store it in million gallon tanks and transport it around the state.

**Funding Needed: \$125 Million**

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## Community Transportation Program Needs List

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[Listed By Road Type - No Priority Order](#)

[Major Arterials Needs List In Alphabetical Order](#)

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### Bogard/Seldon Roads Corridor 4 Lane Upgrade

(CIP ID #17)

*Nominator: MSB Capital Projects*

This project will upgrade Seldon and Bogard Roads three miles from the Bogard and Trunk Road intersection to the Bogard and Seldon Road intersection. This roadway will serve as a link in completing an alternate route to the Palmer-Wasilla Highway. The project includes widening, intersection improvements, pathway, and other safety projects as needed. When completed, the expanded roadway will greatly benefit hundreds of travelers a day. Funding is needed for Design and ROW acquisition.

**Funding Needed: \$33 Million**

### **Bogard/Engstrom Intersection Improvement**

**(CIP ID #300)**

*Nominator: MSB Capital Projects*

This project will reduce congestion and car pollution through idling. Traffic delays at the intersection of Bogard Road and Engstrom Road continue to grow as more and more subdivisions are being built in the area which use Engstrom, which is the only the arterial road in the area. Delays are common place and the mornings are particularly onerous. The situation is made more complex by the off-set intersection at Green Forrest Road and Bogard which is slightly west of Engstrom on Bogard. Intersection improvements need to be made or alternative routes to other arterial roads need to be constructed.

**Funding Needed: TBD**

### **Seward Meridian Parkway Extension South to Fairview Loop**

**(CIP ID #283)**

*Nominator: City of Wasilla*

This road construction would serve multiple purposes: It will dramatically improve transportation safety in the area by providing more direct travel. It will allow for the closure of the existing Fairview/Old Matanuska Intersection. It will provide Interconnectivity by creating another route for traffic in case of a disaster or nearby road blockage elsewhere. Old Matanuska has very little right of way and steep shoulders. It is prone to erosion with only prescriptive right of way in which to perform the work. It will improve additional properties for development and subdividing, increasing the Borough tax base. The project will allow for a separated grade crossing over the Alaska Railroad, providing much safer travel for all involved. AKRR has already indicated they will require a separated grade crossing at Fairview/Old Matanuska, so this plan allows us to get the bridge where it will do the most good.

**Funding Needed: \$8.6 Million**

### **Valley Pathways School Access Improvement Project**

**(CIP ID #265)**

*Nominator: MSB Capital Projects*

This project will improve access to the Valley Pathway School by extending a road to the Palmer-Wasilla Highway/Hemmer Road. Current access along France Road should include a signalized intersection with the Palmer-Wasilla Highway. Left turns into and out of France Road are unsafe and are subject to travel time delays due to heavy traffic along the Highway during peak traffic hours.

**Funding Needed: \$9.75 Million**

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## **Minor Arterials Needs List in Alphabetical Order**

### **Big Lake Town Center - Street Illumination**

**(CIP ID #122)**

*Nominator: Big Lake Community Council*

The project will install street lights to illuminate the town center of Big Lake as defined by the Big Lake Comprehensive Plan. Street lights will be installed on Big Lake Road from Beaver Lake Road through Fish Creek Park. The town center of Big Lake includes an elementary school, public library, post office, family park, supermarket, restaurants, and ice arena/recreational center, as well as several other businesses. Illuminating this area will make it safer for foot and vehicular traffic, and will discourage vandalism.

**Funding Needed: TBD**

### **Hatcher Pass Road Resurfacing - MP 18-20**

(STIP #9732; CIP ID #56)

*Nominator: State of Alaska*

This project will resurface the existing gravel road. Hatcher Pass is one of the primary recreation and tourism sites in the Borough; the Borough is investing in a cross country Nordic ski facility just south of the project. The road also connects the communities of Willow and Palmer together during the summer months when the pass is open. In the winter months the roads leading up to the closed pass are used to reach residences and to access recreational activities such as snowmobiling, skiing, and sledding. All users of the area will benefit. The project is in the State STIP which shows design and right-of-way funding in FY14, and construction in FY15. The total cost of the project is \$7,960,000.

**Funding Needed: \$5.5 Million**

### **Trunk Road-Parks Highway Interchange Improvements**

(CIP ID #271)

*Nominator: MSB Capital Projects*

Complete traffic study, design and construct interchange improvements on the north side of the Trunk Road-Parks Highway Interchange. The current Parks Highway to Trunk Road off-ramp was not designed to carry heavy traffic turning south over the interchange. As the residential and commercial property south of the Parks Highway continues to develop at a rapid pace, the off-ramp needs to be redesigned to carry more traffic without backing vehicles up on the ramp. The Gateway Community Council area residents as well as Borough residents shopping at the many commercial stores on the south side of the interchange will reap direct benefits from this project. It will also ensure the smooth functioning of a vital interchange for Valley commuters.

**Funding Needed: TBD**

### **Wasilla-Fishhook Road Upgrade, Seldon Road to Palmer-Fishhook Road**

(CIP ID #242)

*Nominator: MSB Assembly*

This project will straighten and widen Wasilla-Fishhook in phases to upgrade the northern portion of Wasilla-Fishhook Road from Seldon Road intersection to Palmer-Fishhook intersection. The southern portion of the roadway was recently re-built from Wasilla to Seldon. The road will be straightened, widened, and provide paved shoulders to improve safety. Many subdivisions, businesses, and Shaw Elementary School are accessed from Wasilla-Fishhook Road. The current road, which was built on a wagon trail from the railroad in Wasilla to the mines at Hatcher Pass, does not meet standards for a minor collector road due to sharp curves, lack of shoulders, and poor sight distance at intersections.

**Funding Needed: TBD**

## **Major Collectors Needs List In Alphabetical Order**

### **Caswell Lakes Road Paving**

(CIP ID #255)

*Nominator: MSB Capital Projects*

This project is part of the 2011 Road Bond Projects. Due to lack of funding, the paving will not be completed. The project is 4.5 miles long. This includes Caswell Lakes Road, South Bendapole Road, East Passthebaite Avenue, and South Lostaspinner Street. The road design is complete and construction of the road base is underway.

**Funding Needed: \$1.6 Million**

### **Fairview Loop Reconstruction and Extension, Old Matanuska Road to Fireweed Road**

(CIP ID #222)

*Nominator: MSB Capital Projects*

This project would remove a dangerous intersection where Fairview Loop meets Old Matanuska Road by constructing a bridge over Fairview Loop and the Alaska Railroad. Fairview Loop would then be realigned and extended northeast to connect with Fireweed Road (the Parks Highway frontage road). The project will also construct a side road extending from the new Fairview Loop alignment southeast with an overpass over the Alaska Railroad to Nelson Road.

***Funding Needed: TBD***

### **Fairview Loop Rehabilitation**

(STIP #51774; CIP ID #126)

*Nominator: State of Alaska*

Traffic counts and site monitoring show traffic increasing along the entire length of Fairview Loop, a narrow road that has no pedestrian facilities. This project will correct those deficiencies to the benefit of everyone who uses the road, especially students who attend Snowshoe Elementary School. The project has four components. The first component is a realignment of the Fairview/Knik-Goose Bay (KGB) intersection to match with an extended S. Mack/Clapp Road from Wasilla, moved approximately 100' to the west. The second, third, and fourth components will construct 4' shoulders on both sides of the road and add a 10' separated path on the north side of the road. These segments are from Hayfield to Edlund Road, from Edlund Road to Fireweed Road (the Parks Highway frontage road), and from Top of the World Circle to Hayfield Road, respectively. The separated trail is being added on the north side to provide access to Snowshoe Elementary School.

***Funding Needed: \$30 Million***

### **Fern Street Upgrade and Pathway - KGB to Fairview Loop - NEW**

(CIP ID #280)

*Nominator: MSB Capital Projects*

This project would add shoulders, resurface existing pavement, and add a pathway along Fern Street and Edlund Road from Knik-Goose Bay Road to Fairview Loop. Since the connection between Fern and Edlund was completed, the amount of traffic on Fern Street has increased dramatically. There are no shoulders on Fern which leads to an unsafe condition on the roadway.

***Funding Needed: \$3 Million***

### **Knik River Road Three Fish Passage Culverts**

(CIP ID #31)

*Nominator: South Knik Community Council*

This project consists of three culvert replacements at MP 5.8, 7.2, and 8.0 of Knik River Road. The existing culverts are undersized or damaged. The culverts should be large enough to allow fish passage. The principal beneficiaries of the culvert replacement are not humans, but fish. Residents' value of wildlife and improved aquatic habitat creates spillover social benefit.

***Funding Needed: \$790,000***

### **Nelson Road Extension North**

(CIP ID #269)

*Nominator: MSB Capital Projects*

This project would provide major collector road access for three large subdivisions to Fairview Loop Road. Traffic is currently routed through subdivision roads that do not have adequate ROW or weren't designed for the amount of traffic they are carrying. The proposed extension of Nelson Road would be

approximately one quarter to one half mile long and would extend from the current end of the pavement north to Fairview Loop.

**Funding Needed: \$2.7 Million**

### **Pittman Road - Fire Station 71 Warning Lights**

**(CIP ID #258)**

*Nominator: Meadow Lakes Community Council*

Fire Station 7-1 is located on a blind corner of Pittman Road that requires emergency vehicles to exit with maximum caution. Current signage consists of two 30" yellow signs with a fire station icon. Meadow Lakes Elementary, next to the fire station has two flashing warning signs activated when school buses are operating.

**Funding Needed: TBD**

### **Pittman Road Upgrade**

**(CIP ID #262)**

*Nominator: Meadow Lakes Community Council*

This project seeks to upgrade, widen and improve Pittman Road. Currently Pittman Road has many frost heaves and deteriorating pavement with poor or non-existent shoulders. Safety is a major concern with the present condition of the road. The project is supported by the Meadow Lakes Comprehensive Plan.

**Funding Needed: TBD**

### **Pittman Road Turn Lanes - Charter School**

**(CIP ID #39)**

*Nominator: Meadow Lakes Community Council*

This project will install turn lanes onto and off of Pittman Road to improve access to Midnight Sun Charter School approximately 1.5 miles down Pittman Road. Travelers on Pittman Road will benefit as parents who are required to provide their own transportation to the charter school no longer queue in the roadway.

**Funding Needed: TBD**

### **Seldon Road Upgrade from Wasilla-Fishhook to Lucille Street**

**(CIP ID #263)**

*Nominator: MSB Capital Projects*

The project calls for the upgrade of Seldon Road from Wasilla-Fishhook to Lucille Street, approximately 1.8 miles. This segment of Seldon currently consists of two 11-ft. travel lanes with no shoulders and minimal ditching. The proposed upgrade will increase the road width to two 12-ft. travel lanes with 8 foot shoulders with a separated paved pathway. This project will allow residents, commercial delivery trucks, school buses, and freight vehicles to travel in a safe manner the entire length of the Bogard-Seldon corridor from Palmer to Meadow Lakes.

**Funding Needed: \$20 Million**

## **Minor Collectors Needs List In Alphabetical Order**

### **Ayrshire Road to Little Su Landing Improvements**

**(CIP ID #232)**

*Nominator: MSB Capital Projects*

Ayrshire Road from the intersection with Point MacKenzie Road and Burma Road, to the gate at the Little Susitna River landing is 4.66 miles. This project will upgrade the road to 28', with two 12' paved driving lanes and two foot D-1 shoulders. The design will be complete in 2014 and the gravel road will

be improved and ready for paving in 2014. Residents and tourists frequent the State facilities at the Little Susitna Landing. This project will improve access to that facility. Project design is underway.

**Funding Needed: \$2 Million**

### **Big Lake Collector Road**

**(CIP ID #43)**

*Nominator: Big Lake Community Council*

This is a 5-7 mile long collector road required to complete a transportation loop that will connect W. Lakes Boulevard at Our Road, on the north shore of Big Lake to the W. Susitna Parkway on the south side of Crooked Lake. The road will provide access for residential and other types of development that is taking place in the area. Approximately 250 current homeowners will benefit immediately. The project will be a catalyst for development. The road will also provide proper egress and ingress to the area. A corridor study and preliminary study would be first, with construction in the future.

**Funding Needed: TBD**

### **Burma Road Construction - Local Traffic**

**(CIP ID #46)**

*Nominator: Big Lake Community Council*

This project will construct a two-lane rural highway section with two travel lanes, shoulders and a utility corridor from Point MacKenzie Road to Susitna Parkway. This local collector road will serve the growing residential community, based around the continued development in the Port MacKenzie area. Benefits include improved access to goods and services, safer travel conditions, access to emergency services, and reduced travel time to places of employment. The Big Lake Comprehensive Plan supports the project.

**Funding Needed: TBD**

### **Foothills Drive Reconstruction**

**(CIP ID #281)**

*Nominator: MSB Capital Projects*

Foothills Drive is used as a north-south collector between the Parks Highway and Knik-Goose Bay Road. A portion of the road, in the center, was built as a substandard road. This project would upgrade that section of road and install a fish-passage culvert at Lucille Creek. Seventy-three home owners will benefit. The school bus route will be shortened and it will be faster access to the fire stations on KGB.

**Funding Needed: TBD**

### **Lucus Road Improvement**

**(STIP #11721; CIP ID #22)**

*Nominator: State of Alaska*

The project will improve Lucus Road between the Parks Highway and Spruce Avenue to an upgraded two-lane facility with shoulders, turning lanes, pedestrian facilities, landscaping, and drainage improvements. When completed, this project will benefit hundreds of travelers a day. The project is supported in the State and the Borough's long range transportation plans. Right-of-way acquisition is underway and construction is slated to begin in FY16 and beyond. Total cost is \$23.2 Million.

**Funding Needed: \$22.5 Million**

### **Katherine Drive**

**(CIP ID #284)**

*Nominator: MSB Capital Projects*

Katherine Drive is the name of the proposed eastern leg of the project, connecting Trunk Road to Midtown Estates at the northern terminus of Manhattan Way. The purpose of this project is to provide secondary access to the subdivision via a local road and relieve pressure on the current Palmer-Wasilla Highway (PWH) intersections. Consideration for this roadway was incorporated into the "new" Trunk Road design. A full median opening and U-turn/Left turn lanes were constructed as part of the project. Currently, design of the roadway is underway with Survey, Geotechnical Investigation, Hydrologic & Hydraulic Design, Cultural and Environmental Reports all in Final Draft Phase. Plans have been reviewed by AKDOT at 95%. Wetlands have been identified and will likely require mitigation. ROW has been previously secured for use by adjacent land owner. As designed, the road would be 0.2 miles (1,056 feet) and vary from 24'-32' in width. Design is currently approaching 75% complete.

**Funding Needed: \$800,000**

### **Oilwell Road Upgrade**

**(CIP ID #221)**

*Nominator: MSB Capital Projects*

The project will upgrade and pave Oilwell Road from the intersection with Petersville Road to the Moose Creek Bridge. Each spring the road experiences significant drainage issues and floods almost annually. Timber resources are at the end of the roadway, but cannot be accessed without these improvements. As of 2016, the project's design is complete and right-of-way acquisitions have begun. Construction funding is needed to complete the project.

**Funding Needed: \$10 Million**

### **Settlement Avenue Extension East**

**(CIP ID #285)**

*Nominator: MSB Capital Projects*

This project would extend Settlement Avenue to the east and then southeast to connect with Trunk Road. This connection would give new access to a major roadway for all the development in the north Engstrom / Hart Lake area and give relief to the Bogard Road / Engstrom Road intersection. There are two large subdivisions being built in the area which will significantly increase the traffic at the intersection. With the increase in traffic, there will be an increase in accidents at this location.

**Funding Needed: \$6 Million**

### **Smith Road Reconstruction and Pedestrian Pathway**

**(CIP ID #61)**

*Nominator: MSB Capital Projects*

The road currently has serious structural damage, no shoulders, and lacks guardrails in one area where it is probably warranted. There are several residential subdivisions and a few small businesses both north and south of Smith Road. It has an average daily traffic count of 1380. Improvements to the road and construction of a pathway would benefit public safety for both drivers and pedestrians, and reduce wear and tear on personal and commercial vehicles. The pathway would also provide a link between the Old Glenn Highway pedestrian path and the Matanuska Peak trailhead, completing a link to the popular recreation area between the Butte, the City of Palmer, and beyond.

**Funding Needed: \$750,000**

### **Susitna Parkway Extension**

**(CIP ID #25)**

*Nominator: MSB Capital Projects*

This project will construct an extension of the Susitna Parkway a distance of approximately three miles from the junction of Papoose Twins Road to the Little Su River and is combined with a bridge project to provide access to the roads in the Fish Creek area. See companion project CIP ID #129, Bridge No. 1209 – Lewis Loop at Fish Creek.

**Funding Needed: TBD**

### **Sylvan Road to Hollywood Road Connection**

(CIP ID #36)

*Nominator: Meadow Lakes Community Council*

The project will extend Sylvan Road to Sylvan Lane. The connector will give residents from Knik and lower Big Lake direct access to the Meadow Lakes business district. Meadow Lakes now supports a grocery store, bank, DMV remote site, and other small businesses. The public, business owners, and future businesses will benefit from this project. The Meadow Lakes Comprehensive Plan supports this extension.

**Funding Needed: TBD**

### **Tex-Al Drive Extension to Palmer-Fishhook Road**

(CIP ID #257)

*Nominator: George Strother*

Extend East Tex-Al Drive 1.6 miles to Palmer-Fishhook Road. This is a mostly level route with no wetlands and one hill on a firm gravel base. This project had preliminary engineering with a profile survey, initial right-of-way research and soils testing in the early 1980s. The current (2007) Borough Long Range Transportation Plan lists this connection as an emergency access for residents in areas with only one ingress and egress. The project is located in RSA #16, South Colony. Residents along the route and side roads will have better emergency access, and a better secondary road network will start to develop.

**Funding Needed: \$3 Million**

### **West Susitna Access**

(CIP ID #267)

*Nominator: MSB Community Development*

The project consists of constructing surface transportation facilities to access the Susitna Basin west of the Susitna River. The ADOT&PF West Susitna Access Reconnaissance Study (2014) included several different routes. This project nomination focuses on the Middle Susitna-Skwentna River Route shown in blue in the study. This alignment is about 108 miles long starting near the end of Ayrshire Road and terminating near Whistler south of Mount Distin. The road will provide access to a multitude of natural resources, benefiting the State of Alaska and resource extraction businesses.

**Funding Needed: \$453 Million**

## **Residential and Commercial Streets Needs List In Alphabetical Order**

### **East Access to Meadow Lakes Community Center**

(CIP ID #41)

*Nominator: Meadow Lakes Community Council*

The project will construct an access road from North Suzanna Street to the Meadow Lakes Community Center via Vienna Woods access. The road will benefit the community center and the adjacent 120-acre Borough parcel. The road will provide an alternate egress to Pittman out of the Meadow Lakes area and help resolve safety issues. The project is supported by the Meadow Lakes Comprehensive Plan.

**Funding Needed: TBD**

### **Fish Lake Road Paving**

**(CIP ID #35)**

*Nominator: Chickaloon Community Council*

The project will pave approximately four additional miles of Fish Lake Road. Fish Lake Road originates at MP 72.9 of the Glenn Highway, and ends at an intersection with Chickaloon Road. Improvement to the road will result in better access, lower maintenance costs, and more reliable school bus routes. Approximately .3 miles of the road is already paved, using RSA-31 funds. There are no other plans for additional paving with RSA funds.

**Funding Needed: \$750,000**

### **Horseshoe Lake Road Reconstruction - Phase 1**

**(CIP ID #121)**

*Nominator: MSB Public Works*

This project will upgrade an existing road around Horseshoe Lake. The first phase of the project consists of design and the approximate five mile road will be widened and straightened, and drainage ditches will be constructed to address water runoff. Funding for the project to date has been from the State of Alaska at \$700,000 which has funded ROW acquisition, Geo-technical data acquisition, and design. The design is currently at the 35% phase. There are a number of full and part time residences around the lake. Total cost of both project phases is \$5.2 Million.

**Funding Needed: \$1.5 Million**

### **Horseshoe Lake Road Reconstruction - Phase 2**

**(CIP ID #217)**

*Nominator: MSB Public Works*

This project will upgrade an existing road around Horseshoe Lake. The approximate five mile road will be widened and straightened, and drainage ditches will be constructed to address water runoff. Phase 2 will construct the new roadway after ROW acquisition; utility re-locations and design work are completed in Phase 1. The construction cost estimate is \$4.5 Million and the project could be completed in one season when the design is completed. There are a number of full and part-time residences around the lake. Total cost of both project phases is \$5.2 Million.

**Funding Needed: \$3 Million**

### **King Arthur Drive Upgrade**

**(CIP ID #259)**

*Nominator: Meadow Lakes Community Council*

This project seeks to upgrade King Arthur Drive. Currently half of the road is gravel, and the other half is paved, but in need of repair. King Arthur Drive, West King Arthur Drive, Gunflint Road, and Meadow Lakes Drive provide an alternate route to the Parks Highway in Meadow Lakes. Upgrading King Arthur Drive will improve access and increase safety. The length of this project is 2.7 miles.

**Funding Needed: TBD**

### **New Hope Street Extension**

**(CIP ID #260)**

*Nominator: George Strother*

This project will extend New Hope Street 1.25 miles to the west so that it connects to Independence Avenue. This would serve as a collector street between Wasilla-Fishhook and Palmer-Fishhook Roads. This connector would allow better emergency vehicle access through two dead end roads and begin to help form a badly needed road grid in the Fishhook area. The proposed route is a mostly level route on a firm gravel base, with no wetlands. It is also along a section line. If the section line easements are still in place, no additional right-of-way may be needed.

***Funding Needed: TBD***

### **West King Arthur Drive Upgrade**

**(CIP ID #266)**

*Nominator: Meadow Lakes Community Council*

The project seeks to upgrade West King Arthur Drive which is currently gravel. King Arthur Road and West King Arthur Drive provide an alternate route to Pittman Road if the Parks Highway is closed for an accident or natural disaster. Upgrading West King Arthur Drive will improve access and increase safety.

***Funding Needed: TBD***

### **Wolverine Road Erosion**

**(CIP ID #220)**

*Nominator: MSB Administration*

The western slope of Wolverine Road as it climbs the canyon after crossing Wolverine Creek has a significant erosion issue and is starting to threaten the roadway. To correct the problem, a cut into the side of the canyon is necessary to move the road further away from the canyon floor.

***Funding Needed: \$6 Million***

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# Transit Projects

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## Priority Projects

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1. **Replacement Share-A-Ride Vans for Mat-Su** (CIP #267)
2. **Old and New Glenn Highway Intersection Park and Ride Facility** (CIP #268)
3. **Meadow Lakes Community Mascot Stops** (CIP #124)
4. **Regional Transit Maintenance Center** (CIP #273)
5. **Regional Transit Dispatch & Scheduling Center** (CIP #274)

## Project Descriptions

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### 1. **Replacement Share-A-Ride Vans for Mat-Su** (CIP ID #267)

*Nominator: MSB Capital Projects*

This project will purchase three new commuter vans to replace vans which have been on the road since 2009. The Share-A-Ride program is a collaborative effort between the Borough and the Municipality of Anchorage. The Borough owns 13 of the vans which regularly transport over 600 commuters from the Valley to the Anchorage bowl. The vans have many miles on them and are beginning to lose their cost effectiveness due to mounting maintenance issues and decreased gas mileage.

**Funding Needed: \$180,000**

### 2. **Old and New Glenn Highway Intersection Park and Ride Facility** (CIP ID #268)

*Nominator: South Knik River Community Council*

A park and ride lot is needed for the southern part of the Borough to facilitate commuters from Lazy Mountain, the Butte, and the South Knik River areas to carpool to Anchorage. The three community councils in the area support the concept of a lot near the confluence of the Old and New Glenn Highways. It is estimated that 60 to 100 commuters would utilize the facility during the week. Currently there is a very small pullout on the Old Glenn Highway which can only accommodate three vehicles at most.

**Funding Needed: \$900,000**

### 3. **Meadow Lakes Community Stops** (CIP ID #124)

*Nominator: Meadow Lakes Community Council*

Currently the only bus stop in Meadow Lakes is at the B&J Rainbow Center. This project would identify locations and create additional transit stops. Residents without private transportation will benefit and be able to accept jobs in Wasilla and Palmer based on having reliable transportation.

**Funding Needed: TBD**

#### 4. Regional Transit Maintenance Center

(CIP ID #273)

*Nominator: MSB Transportation Advisory Board*

The objectives of a Regional Transit Maintenance Center (RMC) is to better leverage decreasing Federal and State transit dollars and improve overall maintenance of rural transit providers' vehicle fleets. Key contributors in addressing maintenance concerns for rural transit systems are aging fleets, increasing costs, and the lack of standard maintenance practices, oversight, and accountability. Administration, overhead and facility leasing costs are significant cost reduction points that would result with the construction and operation of a centrally located RMC. Ideally, the facility would be located on land without associated costs. The significant savings realized by the providers could be funneled back into operational and increased ridership program elements. Studies have shown that RMCs, with a training center for mechanics and drivers, can improve vehicle reliability, increase vehicle longevity, and improve service to transit clientele.

**Funding Needed: TBD**

#### 5. Regional Transit Dispatch and Scheduling Center

(CIP ID #274)

*Nominator: MSB Transportation Advisory Board*

A central dispatch and scheduling center will help customers more efficiently obtain rides for important daily activities associated with health care, employment, shopping and social activities. A central facility will simplify information gathering for customers, do a better job of matching customer needs with available options, and assist with vehicle operations coordination, all of which will provide more trips with the existing resources. Dispatch software is capable of identifying human service ride needs, a rider's best option, who is paying for the ride, and the criteria associated with each rider without breaking HIPPA and confidentiality. The software can be accessed from any location in the Borough through phone lines and internet connectivity. Many agencies can use the same service without tampering with other data.

**Funding Needed: TBD**

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# Aviation

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## Priority Projects

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1. **Big Lake Airport - Two-Bay Equipment Building and Front End Loader (CIP #174)**
2. **Willow Airport - Taxiway Improvements, Construction of Access Roads, Signage & Fencing (CIP #187)**
3. **Talkeetna Airport - New Helicopter Pad and Parking (CIP #178)**
4. **Willow Airport - Senior Center Access Road Relocation (CIP #184)**
5. **Willow Airport - Install Automated Weather Observation System (CIP #188)**
6. **Willow Airport - Highway Crossing Improvements (CIP #182)**
7. **Wasilla Airport - Runway 3/21 Extension - Phase 1 (CIP #179)**
8. **Willow Airport - Helicopter Pad and Parking (CIP #181)**
9. **Willow Airport - Public Float Plane Dock (CIP #183)**
10. **Willow Airport - Taxiway and Apron Surface Hardening (CIP #186)**

## Project Descriptions

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### **1. Big Lake Airport - Two-Bay Equipment Building (CIP ID #174)**

*Nominator: MSB Capital Projects*

This project will construct a two-bay equipment building at the Big Lake Airport. With no maintenance facility at the Airport, a grader used to clear the runways must be kept outside year round. During winter winds, often a large snow-blower must be driven up to Big Lake from the DOT&PF maintenance facility in Palmer. This results in extra wear and tear on the machinery, and since there is no place to store the snow-blower in Big Lake, the operator must also return the equipment to Palmer at the end of the day. A two-bay equipment building will allow the grader to be stored indoors, thereby extending its useful life. The structure will also allow “visiting” equipment to be housed overnight, again extending the useful life of the machinery. Maintenance can be accomplished on site, as opposed to traveling 30+ miles back to Palmer.

**Funding Needed: \$500,000**

### **2. Willow Airport - Taxiway Improvements, Construction of Access Roads, Signage, and Fencing (CIP ID #187)**

*Nominator: MSB Capital Projects*

The project will construct a taxiway between the Willow Airport apron and Runway 13, improve the taxiway connection to Runway 31, and resurface and provide dust control on taxiways. Users of the

Willow Airport will benefit from this one year project. The project will also complete the fencing and signage of the Willow Airport to increase airport security, decrease vandalism, and prevent casual access to the airport. A portion of the airport adjacent to the Parks Highway has been fenced, but is not complete. Commercial businesses, airplane owners, and pilots that work at the Willow Airport will benefit from this project. Fencing is included in the Willow Airport Master Plan as a near-term improvement.

**Funding Needed: \$1.7 Million**

### **3. Talkeetna Airport - New Helicopter Pad and Parking**

**(CIP ID #178)**

*Nominator: MSB Capital Projects*

This project calls for the relocation of the Talkeetna Airport helipad to an area near the east end of the runway. The existing helipad is located in the 100 year floodplain. Residents of the community of Talkeetna and the National Guard, as well as tourists visiting the area, will benefit from the re-location. It is anticipated the project will take two years to complete and is a component of the airport's master plan.

**Funding Needed: \$2.1 Million**

### **4. Willow Airport - Senior Center Access Road Relocation**

**(CIP ID #184)**

*Nominator: MSB Capital Projects*

This project will separate Willow Senior Housing traffic from aircraft taxiing traffic by relocating the access road to the Willow Senior Housing. Currently all traffic uses the same route: Willow Senior Housing access was linked into the existing access for aircraft moving from Willow Lake to the Willow Airport runway facilities. For safety, the two access roads need to be separated. Residents and visitors of the Willow Senior Housing units as well as aircraft owners and pilots will benefit from this project. This is included in the Willow Airport Master Plan as a near-term improvement.

**Funding Needed: \$350,000**

### **5. Willow Airport - Install Automated Weather Observation System**

**(CIP ID #188)**

*Nominator: MSB Capital Projects*

This project will install an automated weather observation system at the Willow Airport. The automated weather observation system will also be available via the internet to Alaska residents statewide who may be travelling through the area and need up-to-the-minute weather information. Currently pilots must rely on weather from Wasilla or Talkeetna, which is often significantly different from this location.

**Funding Needed: \$750,000**

### **6. Willow Airport - Highway Crossing Improvements**

**(CIP ID #182)**

*Nominator: MSB Capital Projects*

This project will provide vehicles on the Parks Highway electronic warning that a plane is crossing the highway from Willow Lake to the Willow Airport upland facilities. The current signage is not adequate. This project will provide increased safety for all users of the Parks Highway as well as the pilots and maintenance staff taking planes across the highway. This is included in the Willow Airport Master Plan as a near-term improvement.

**Funding Needed: \$500,000**

**7. Wasilla Airport - Runway 3/21 Extension - Phase 1**

**(CIP ID #179)**

*Nominator: MSB Capital Projects*

This project will extend the current 4/22 runway by 1,400 feet, bringing the total runway length to 5,100 feet. This will allow for larger, multi-engine aircraft to land and take off at the Wasilla Airport, thereby increasing cargo and passenger service to the Borough's largest community. The residents of both the City of Wasilla and the Borough as a whole who use the airport for transfer of freight and passengers will benefit. The improvement is supported by the Wasilla Airport Master Plan and is expected to take two to three years to complete.

***Funding Needed: TBD***

**8. Willow Airport - Helicopter Pad and Parking**

**(CIP ID #181)**

*Nominator: MSB Capital Projects*

This project will construct a helicopter landing pad and parking area at the Willow Airport. Helicopters currently have no designated landing area and often set down in the aircraft taxiway area or vehicle parking area where they must watch out for vehicles moving on the ground. This project will provide a designated area which will increase safety for operations, refueling, and maintenance. This will benefit the users of the Willow Airport as well as Emergency Services and injured residents or non-residents who may be flown into this location for transfer to ground transport. The project is included in the Willow Airport Master Plan as a mid- or long-term improvement.

***Funding Needed: \$500,000***

**9. Willow Airport - Public Float Plane Dock**

**(CIP ID #183)**

*Nominator: MSB Capital Projects*

This project will provide a public float plane dock at Willow Lake. There currently is no public float plane dock which makes access for entering and exiting float planes difficult and less safe than loading from a dock. This improvement would likely draw more pilots to Willow Lake thereby contributing to the economy of the Community of Willow.

***Funding Needed: \$1 Million***

**10. Willow Airport - Taxiway and Apron Surface Hardening**

**(CIP ID #186)**

*Nominator: MSB Capital Projects*

This project will harden the surface of the taxiway and apron to reduce dust and maintenance. (Local pilots have requested that the runway remain gravel.) Surfacing and dust control on taxiways is included in the Willow Airport Master Plan as an improvement.

***Funding Needed: \$500,000***

# Aviation Needs List

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## No Priority Order, Listed Alphabetically

### **Big Lake Airport - Install New Lighting System**

(CIP ID #87)

*Nominator: MSB Capital Projects*

This project will upgrade the runway light controller system, wiring, and lights increasing safety. The lighting system at the Big Lake Airport is not up to current safety standards. All users of the Big Lake Airport will benefit from the project.

**Funding Needed: \$900,000**

### **Goose Bay Airport - Security Fence**

(CIP ID #175)

*Nominator: MSB Capital Projects*

This project will install a security fence around the perimeter of the runway and parking apron thereby providing a safe and obstacle free runway as well as a secure place to park aircraft. This project will provide increased safety for plane owners and users of the Goose Bay Airport at the end of Knik-Goose Bay Road, one of the fastest growing areas of the state.

**Funding Needed: \$600,000**

### **Talkeetna Airport - New Apron at North End**

(CIP ID #177)

*Nominator: MSB Capital Projects*

This project will expand commercial, General Aircraft (GA) and transient aircraft parking. The project will construct a transient parking apron and pad for the future GA and lease lot apron development. This project will benefit the community of Talkeetna through increased economic development as well as other Borough and non-Borough residents who fly into Talkeetna and need an area to park their aircraft. This project is supported by the Talkeetna Airport Master Plan and is a companion project to CIP ID #189, Lease Lot Development.

**Funding Needed: TBD**

### **Talkeetna Airport - Lease Lot Development**

(CIP ID #189)

*Nominator: MSB Capital Projects*

The project will construct a taxiway to newly created lease lots on the south ramp of the Talkeetna Airport. The lease lot development is a critical need as it will mitigate current safety conflicts between fixed wing and rotor wing traffic. The State has already dedicated the land for the lease lots which are paid for by private businesses. The project will contribute to the economic development of the Borough.

**Funding Needed: TBD**

### **Willow Airport - Apron Space for Tie-Downs at South End**

(CIP ID #180)

*Nominator: MSB Capital Projects*

This project will construct an aircraft tie-down apron pad at the Willow Airport where none currently exists. Users of the Willow Airport will benefit from this project as well as the community of Willow in increased economic development.

**Funding Needed: \$500,000**

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# Emergency Services Equipment

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## Priority Projects

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1. **Mat-Su Borough Self Contained Breathing Apparatus Replacement (CIP #290)**
2. **Willow Fire Service Area Engine Replacement – Replace 1985 Grumman Engine (CIP #212)**  
**Willow Fire Service Area Engine Replacement – Replace 1985 Surplus Pumper (CIP #292)**
3. **Willow Fire Service Area Tanker Replacement (CIP #213)**  
**Willow Fire Service Area - Pumper / Tanker Replacement for Tanker 12-21 (CIP #293)**
4. **Caswell Fire Service Area -Engine Replacement (CIP #136)**
5. **Central Mat-Su Fire Service Area- Aerial/Ladder Truck (CIP #291)**
6. **Airport Rescue Services Response Equipment (CIP #135)**
7. **Central Mat-Su Fire Service Area - Tanker Replacement (CIP #137)**
8. **Sutton Fire Service Area Tanker Replacement (CIP #204)**
9. **Talkeetna Fire Service Area Tanker Replacement (CIP #206)**

## Project Descriptions

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### 1. **Mat-Su Borough Self Contained Breathing Apparatus Replacement (CIP ID #290)**

*Nominator: MSB Emergency Services*

The Borough's nine Fire Departments – Butte, Sutton, Greater Palmer/City of Palmer, Central Mat-Su, West Lakes, Houston, Willow, Caswell and Talkeetna – all have an automatic/mutual aide agreement to respond to emergency incidents. The Departments maintain a total of 615 Self-Contained Breathing Apparatus (SCBA), 1217 SCBA air bottles and 995 face masks as part of their required fire-fighting equipment. In 2013, the National Fire Protection Association introduced new standards for SCBA. The review and adoption of standards is an on-going/scheduled process, however this review was accentuated by recent findings related to critical firefighter injuries and deaths associated with SCBA. The standard establishes levels of respiratory protection and functional requirements of SCBA used by emergency services personnel. In prior years, redesign of SCBA has allowed for upgrade kits to be purchased to bring the SCBA units into compliance with changes. The 2013 changes are so significant that no upgrade kits exist. The entire unit must be replaced. This project will replace all of the SCBA packs, bottles, face masks, 2- cascade systems (Palmer and Central Mat-Su) and 8 new 7000-psi bottles for existing cascade system upgrade (West Lakes).

**Funding Needed: \$4.2 Million**

**2. Tie - Willow Fire Service Area Engine Replacement – Replace 1985 Grumman Engine  
(CIP ID #212)**

*Nominator: MSB Emergency Services*

A new fire engine is needed in the Willow Fire Service Area (FSA) which meets all current Federal and State requirements for design and functionality. The FSA currently uses a 1985 Grumman engine which will exceed its life cycle as a primary fire apparatus as defined by NFPA 1901 in 2015. The new apparatus will allow the community to maintain Insurance Services Office ratings and NFPA standards that will maximize life safety capability and hold down insurance rates in the Willow area.

**Funding Needed: \$600,000**

**2. Tie - Willow Fire Service Area Engine Replacement – Replace 1985 Surplus Pumper  
(CIP ID #292)**

*Nominator: MSB Emergency Services*

The project will purchase a new fire engine which meets all Federal and State equipment standards for design and functionality and have the capability to use the compressed air foam system which extinguishes fires most efficiently. The Willow Fire Service Area (FSA) currently has a surplus 1985 Pumper from another FSA housed at the Willow Fishhook fire station 12-2. In addition to safety and functionality, a new engine will favorably impact homeowner insurance rates (many insurance companies will not offer home insurance to property not covered by a fire department) and /or will provide home owners a reduction in their insurance premiums. The Willow FSA is in the process of building three new warm storage satellite stations and will need new apparatus to house in those structures.

**Funding Needed: \$700,000**

**3. Tie - Willow Fire Service Area Tanker Replacement  
(CIP ID #213)**

*Nominator: MSB Emergency Services*

A new fire tanker is needed in the Willow Fire Service Area (FSA) which meets all current Federal and State requirements for design and functionality. The FSA currently uses a 1985 Tanker which will exceed its life cycle as a primary fire apparatus as defined by NFPA 1901 in 2015. The new apparatus will allow the community to maintain Insurance Services Office ratings and NFPA standards that will maximize life safety capability and hold down insurance rates in the Willow area. The Willow Fire Service Area apparatus and facilities have lacked adequate recapitalization efforts forcing paid-on-call firefighters to work in substandard facilities with dated equipment. This apparatus will have a positive effect on capability and allow the Borough to keep faith with our responders and the community.

**Funding Needed: \$500,000**

**3. Tie - Willow Fire Service Area - Pumper / Tanker Replacement for Tanker 12-21  
(CIP ID #293)**

*Nominator: MSB Emergency Services*

The project will purchase a new Pumper/Tanker which meets all Federal and State equipment standards for design and functionality. The Willow Fire Service Area (FSA) currently has a surplus 1983 Pumper/Tanker from another FSA housed at the Willow Fishhook fire station 12-2. In addition to safety and functionality, a new Pumper/Tanker will favorably impact homeowner insurance rates (many insurance companies will not offer home insurance to property not covered by a fire department) and /or will provide home owners a reduction in their insurance premiums. The Willow FSA is in the process of building three new warm storage satellite stations and will need new apparatus to house in those structures. This project will provide up to date, state of the art fire protection for the Willow FSA and will

help protect the on-call responders who respond to the emergencies in the Willow FSA. This project will also help reduce the home owner's insurance rates in the Willow FSA.

**Funding Needed: \$600,000**

#### **4. Caswell Fire Service Area -Engine Replacement**

**(CIP ID #136)**

*Nominator: MSB Emergency Services*

The project will purchase a new fire engine which meets all Federal and State equipment for design and functionality and will have the capability to use the compressed air foam system which extinguishes fires most efficiently. The Caswell Fire Service Area (FSA) currently has a retired 1983 Pumper/Tanker from another FSA and must depend on fire engine response from Talkeetna and/or Willow for all fires in Caswell. In addition to safety and functionality, a new engine will favorably impact homeowner's insurance rates (many insurance companies will not offer home insurance to property not covered by a fire department) and/or will provide homeowners a reduction in their homeowners' premiums. Total equipment cost is \$650,000.

**Funding Needed: \$600,000**

#### **5. Central Mat-Su Fire Service Area- Aerial/Ladder Truck**

**(CIP ID #291)**

*Nominator: MSB Emergency Services*

This project will purchase an aerial apparatus and associated response equipment on the truck, including, but not limited to, SCBA, radios, thermal imaging cameras, etc. The Knik Goose Bay Area is the fastest growing area in the Borough. Two elementary schools are located within one mile of Station 6-2. The addition of a major retail/grocery outlet and the construction of two new schools, a combination high school/junior high school and an elementary school, requires a higher level of initial emergency response for this area. Due to the size and height of the larger buildings, an aerial apparatus is essential for fire protection/response. The Insurance Services Office classifies an area with this level of large structures and potential growth as a "high hazard area" which requires aerial apparatus response. The aerial apparatus will be housed in the Knik Goose Bay area to provide the required response capability and proximity.

**Funding Needed: \$1.4 Million**

#### **6. Airport Rescue Services Response Equipment**

**(CIP ID #135)**

*Nominator: MSB Emergency Services*

Borough Rescue Services responds to several aircraft crashes every year throughout the Borough, usually in areas not accessible by road. This project will allow for the purchase of four complete portable, battery-operated Hurst eDraulic rescue tool sets. The rescue tools will be strategically located at the Talkeetna Fire Department (serving the Talkeetna Airport), the Willow Fire Department (serving the Willow Airport), the West Lakes Fire Department (serving the Big Lake Airport) and the Central Mat-Su Fire Department (serving the Wasilla Airport). Similar type tools were successfully deployed and utilized for the rescue of two pilots involved in a midair collision of two planes in February, 2015. With the units being located at multiple sites, they can be deployed more timely during critical incidents. This project is supported by the Aviation Advisory Board.

**Funding Needed: \$1.4 Million**

### **7. Central Mat-Su Fire Service Area - Tanker Replacement**

**(CIP ID #137)**

*Nominator: MSB Emergency Services*

The purchase of a new Tanker/Water Tender will replace an existing 1977 apparatus. The current equipment is 37 years old and can transport only 2 firefighters. The replacement tanker/tender will transport an Engineer and up to five firefighters and provide increased fire suppression capacity. The new apparatus will have on-board foam and compressed air foam capability. The utilization of compressed air foam firefighting systems has proven to facilitate a quicker knockdown of the fire thus reducing property loss. It also creates less back pressure on the hose lines which decreases the physical stress endured by firefighters actively suppressing the fire.

**Funding Needed: \$650,000**

### **8. Sutton Fire Service Area Tanker Replacement**

**(CIP ID #204)**

*Nominator: MSB Emergency Services*

The Sutton Fire Service Area currently uses tankers which will exceed their life cycle as a primary fire apparatus as defined by National Fire Protection Association (NFPA) 1901 in calendar year 2015. A new fire tanker which meets all current Federal and State requirements for design and functionality is needed for the FSA. The new apparatus will allow the community to maintain Insurance Services Office (ISO) ratings and NFPA standards which will maximize life safety capability and hold down insurance rates in the Sutton area.

**Funding Needed: \$500,000**

### **9. Talkeetna Fire Service Area - Tanker Replacement**

**(CIP ID #206)**

*Nominator: Talkeetna Fire Service Area*

The current fire tanker located at Station 11-2 was built before 1986. It does not meet the National Fire Protection Association 1901 Safety Standard. A new tanker is needed to help ensure firefighter safety. The current tanker has a 500 gallon per minute (gpm) pump and can hold 1500 gallons of water, however from draft; the pump can only pull 450 gpm. A new tanker will provide Talkeetna responders with a safe and reliable apparatus for response. The community will benefit by having a larger pump and water supply. Total cost of the equipment is \$450,000.

**Funding Needed: \$275,000**

## **Emergency Services Equipment Needs List**

**No Priority Order, Listed Alphabetically**

### **Butte FSA Command Vehicles Replacement**

**(CIP ID #209)**

*Nominator: Butte Fire Service Area*

This project will provide for two new command vehicles- Ford F150 pickup so that the current vehicle can be repurposed as a brush truck. The service also needs a Ford F550 that can safely tow its growing fleet of specialty off-road rescue vehicles.

**Funding Needed: \$90,000**

### Central Mat-Su Heavy Rescue

(CIP ID #208)

*Nominator: MSB Emergency Services*

A multi-function heavy rescue apparatus is needed to allow the Borough's busiest rescue service based at Station 6-1 to help responders address motor vehicle accidents, rope rescues, building collapses or confined space rescues. Currently, the service has to rely on the City of Anchorage for the last two types of emergencies making recovery after an earthquake very problematic. Currently, the apparatus used is a 1996 Hackney roll up box on an International chassis. It is at its weight load limit due to the additional equipment needs that have been added to it over the years. The replacement apparatus will be a heavy duty double-axle apparatus equipped with a crane and not only will be a Borough-wide resource, but will also be made available as a state-wide resource on the road system.

**Funding Needed: \$1.2 Mill**

### Lake Louise Emergency Response Vehicle

(CIP ID #202)

*Nominator: MSB Rural Emergency Service*

Lake Louise is located 17 miles off MP 160 of the Glenn Highway. A volunteer group of on-call emergency responders provide limited first response capabilities; Lake Louise does not have a licensed ambulance service for the average 8-10 patient contacts a year. Currently patients are transported in a 1992 Chevrolet Suburban converted to hold a stretcher and provide limited basic life support until the responders can rendezvous with a licensed ambulance service on the road system. There is significant concern for the responder's safety who rides in the back with the patient; there are no adequate safety restraints for rear-positioned responders or any modern safety controls such as air bags. A Tufport Medical Mobile Treatment Center mounted on a 4x4 crew cab truck has been used effectively in other rural Alaskan settings for this type of transport. The Tufport resembles a cab-over camper but is specially equipped to transport two injured patients and a responder, with adequate storage, running water, anti-slip flooring, and is constructed of sturdy fiberglass.

**Funding Needed: \$75,000**

### Sutton Ambulance Replacement

(CIP ID #299)

*Nominator: MSB Emergency Services*

The ambulance positioned at the Victory Station, Glenn Highway mile 99, was purchased in 1999 for \$103,600. Since its purchase, approximately \$23,000 in repair and maintenance costs have been accumulated for its upkeep. It is the oldest piece of equipment in the entire MSB ambulance fleet and has a very different design than the rest of the fleet. The patient care compartment is laid out in a manner that is inconsistent as compared to the other ambulances in the system. The inconsistent layout offers several problems and potential risks due to the fact that emergency equipment and supplies are placed in non-standard locations. The Sutton Ambulance Service responds to pre-hospital emergencies from MP 58 to 130 on the Glenn Highway.

**Funding Needed: \$160,000**

### Talkeetna Ambulance Replacement

(CIP ID #205)

*Nominator: MSB Rural Emergency Service*

The ambulance positioned at MP 2 of the Talkeetna Spur Road has traveled over 90,000 miles. The ambulance is frequently used for inter-facility transport from the Sunshine Clinic where care is initiated to the Mat-Su Regional Medical Center. Due to the long distances and harsh winter temperatures the amount of stress on the vehicle has resulted in high maintenance and repair costs; over \$33,000 as of

June 2013. The Talkeetna Ambulance Service responds to pre-hospital emergencies from MP 90 to 100 on the Parks Highway, and the entire Talkeetna Spur Road.

**Funding Needed: \$160,000**

### **Trapper Creek Ambulance Replacement**

(CIP ID #207)

*Nominator: MSB Rural Emergency Service*

The Trapper Creek Ambulance service travels further than any other ambulance service in the MSB, responding to roughly 175 calls for service each year. The station is located at MP 114 of the Parks Highway. The majority of the calls are in response to pre-hospital emergencies along the Parks Highway between the 100 and 200 mile markers. The current ambulance has over 105,000 miles on it, and due to the long distances and harsh winter conditions, the amount of stress on the vehicle has resulted in over \$40,000 of maintenance and repair costs. A new ambulance will help ensure the service's ability to reliably respond.

**Funding Needed: \$160,000**

### **Water Rescue Airboat**

(CIP ID #198)

*Nominator: MSB Water Rescue*

Water Rescue does not have the appropriate equipment to quickly and safely respond to emergencies on some of the Borough's smaller rivers and creeks. The Water Rescue team currently has a very large airboat designed to operate in Cook Inlet which is slated to be sited at Port McKenzie to enable rescue operations in that area. The team needs a smaller (20 foot) airboat that is better suited for the rivers, creeks and lakes in the Borough where there is a higher frequency of rescue calls. The new airboat would be used to protect citizens and visitors that are injured, become ill, or are stranded on the many waterways in the Borough. It would also be used in flood situations to rescue people and pets that are in danger. Total cost of the apparatus is \$125,000.

**Funding Needed: \$112,500**

### **West Lakes Fire Service Area – Aerial/Ladder Truck**

(CIP ID #306)

*Nominator: West Lakes Fire Service Area*

This project will purchase a new smaller aerial ladder truck and the associated response equipment needed on the truck that is small enough to get in and out of the 3 story residences and businesses in the District 2 area. The FSA currently is using a 1984 E-1 surplus ladder truck that will exceed its life cycle as defined in NFPA 1901 and 2015. The E-1 ladder is an open rear cab design that cannot haul personnel in any of the rear seats per NFPA standards and general safety reasons. The E-1 aerial only has foam on board and carries no water. The new apparatus will have water with CAFS foam systems for firefighting operations. The new apparatus will allow the community to maintain the Insurance Services Office ratings that the property owners have at this time which will allow them to continue insurance premium savings in the future.

**Funding Needed: \$1 Million**

### **West Lakes Fire Service Area – Tanker Replacement**

(CIP ID #307)

*Nominator: West Lakes Fire Service Area*

A new tanker/pumper is needed to replace a 1985 Grumman open cab tanker/pumper apparatus that meets all current federal and state requirements for design and functionality for the FSA. The FSA currently is using a 1985 Grumman that has exceed its life cycle as defined in NFPA 1901 and 2015. The

Grumman tanker is an open rear cab design that cannot haul personnel in any of the rear seats per NFPA standards and general safety reasons. The new apparatus will allow the community to maintain the Insurance Services Office ratings that the property owners have at this time which will allow them to continue insurance premium savings in the future.

**Funding Needed: \$700,000**

### **Willow Ambulance Replacement**

**(CIP ID #214)**

*Nominator: Willow Fire Service Area*

The Willow Ambulance Service responds to pre-hospital emergencies between MP 62 and 92 of the Parks Highway, and serves as a frequent backup to Talkeetna and Trapper Creek to the north. Willow Ambulance has been utilizing a 2006 vehicle previously used by the Wasilla-Lakes Ambulance Service, which experienced very high call volumes resulting in high wear and tear on the equipment. Willow is subject to particularly harsh winters and has many gravel roads. These conditions have added to the stress on the vehicle resulting in over \$64,000 in repair and maintenance costs over the last seven years.

**Funding Needed: \$160,000**

### **Willow Area Emergency Services Command Vehicle**

**(CIP ID #201)**

*Nominator: Willow Fire Service Area*

A new command vehicle is needed for the Willow Ambulance Division which is responsible for pre-hospital emergency care and transport along a 30-mile stretch of the Parks Highway beginning at MP 62. The service currently has one vehicle, a 1996 truck which has 178,000 miles on it and is assigned to Willow's Ambulance Service Chief, the only mobile intensive care paramedic on the ambulance roster. A new SUV or pick-up would include emergency sirens and lighting, mobile radio equipment, a medication vault for narcotic security, roll-out equipment cage, and an inverter and external plug-in to charge medical gear. Total cost of the apparatus is \$100,000.

**Funding Needed: \$90,000**

### **Willow Fire Service Area Tanker Replacements**

**(CIP ID #144)**

*Nominator: Willow Fire Service Area*

This project will purchase a new 3,500 gallon capacity fire tanker to meet all current Federal and State requirements for design and functionality. Willow Fire Service area currently has a used 1973 Tanker that has been retired from another fire service area. Willow must depend on fire tanker(s) response from Talkeetna and/or West Lakes FSA's for all fires within Willow which results in a significant delay in getting the amounts of needed water to the scene of a fire.

**Funding Needed: \$475,000**

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# Emergency Services Facilities

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## Priority Projects

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1. Emergency Operations Center (CIP #193)
2. West Lakes Fire Service Area – Station 7-3 – Parks Highway Station (CIP #152)
3. Central Mat-Su Fire Service Area – South Central Regional Emergency Service Training Center (CIP #149)
4. Central Mat-Su Fire Service Area- Station 5-2 Replacement (CIP #287)
5. Central Mat-Su Fire Service Area - Station 6-1 Addition/Upgrade (CIP #286)  
Central Mat-Su Fire Service Area- Station 6-6 Addition/Upgrade (CIP #288)
6. Caswell Fire Service Area Underground Water Supply (CIP #192)
7. Central Mat-Su Fire Service Area- Station 6-4 Addition/Upgrade (CIP #289)  
Wasilla-Lakes Fire Service Area - Replacement Station 6-2 - Knik Public Safety Building (CIP #148)
8. Willow Fire Service Area Station 12-1 Replacement (CIP #153)

## Project Descriptions

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### 1. Emergency Operations Center (CIP ID #193)

*Nominator: MSB Emergency Services*

The Borough is in the planning stages for a permanent Emergency Operations Center (EOC) which will accommodate the Emergency Management Division staff year-round and serve as the EOC for disaster events, disaster exercises, and training. Disaster events are now managed from a temporary facility that does not meet the majority of the requirements of a contemporary EOC facility: Survivability, Redundancy, Communications, Flexibility and Open Architecture, and Security. A permanent EOC facility will ensure that the EOC is "hot" and immediately available to address any disaster event. The new facility will be approximately 10-12,000 square feet to accommodate offices, training spaces and most importantly all the technological and informational data and services necessary for a strong response effort. The ability to rapidly gather, and process incoming messages and to communicate and display this incoming information is critical to sound decision-making. As the myriad of information is processed and the incident management team responds to the event the timely sharing of the information with the State of Alaska and the local communities, and on-going record-keeping of the event activities is crucial. A permanent EOC will ensure the Borough is adequately prepared to meet these challenges.

***Funding Needed: \$5 Million***

## 2. West Lakes Fire Service Area - Station 7-3 - Parks Highway

(CIP ID #152)

*Nominator: West Lakes Fire Service Area*

Construction of a new 24,000 square foot fire station at Mile 51.3 of the Parks Highway, with facilities for 24 hour staffing of responders, centralized administrative offices, rooms for training and meetings, and several bays to stage emergency response apparatus. The strategic location sits at the confluence of three communities, Big Lake, Meadow Lakes and the City of Houston. Sited adjacent to the Parks Highway, it will provide for a more rapid response to emergencies in the primary FSA of West Lakes, as well as the other communities that we provide mutual and automatic aid to. Currently the West Lakes FSA has a very limited ability to provide 24 hour staffing out of any fire station. Office space is converted closets and storage rooms at three stations and two stations do not have any office space at all. Training has to be split between stations because the training rooms are too small to hold all of the responders. During winter months emergency vehicles must be parked outdoors.

**Funding Needed: \$3.5 Million**

## 3. Central Mat-Su Fire Service Area - South-Central Regional Emergency Services Training Center

(CIP ID #149)

*Nominator: Central Mat-Su Fire Service Area*

This project will complete Phase 1 and Phase 2 of the South-Central Regional Emergency Services Training Center Development Plan. This project includes the construction of a road system and a water system - including burying water lines and installing hydrants on the property, site clearing for the relocation of two training towers, the development of an emergency helicopter landing pad, the installation of utilities, the design and construction of a warehouse, the construction of a paved vehicle extrication site and a hazmat training site and the purchase of training site equipment. The training and certification of the Matanuska-Susitna Borough Department of Emergency Services on-call responders is critical in developing and maintaining an effective emergency response system. The current 537 on-call responders answer the emergency calls within their respective communities. The community relies on their level of training to mitigate all types of situations. The total price of the facility is \$5.7 Million

**Funding Needed: \$3 Million**

## 4. Central Mat-Su Fire Service Area- Station 5-2 Replacement

(CIP ID #287)

*Nominator: Central Mat-Su Fire Service Area*

The projects will construct a new fire station to replace existing Station 5-2 in the East Bogard Road area. The existing facility is approximately 40 years old and in need of major repairs. The existing site is not suitable for expansion, due to lot size and topography, which negatively impact the build-able land on site. The fire station will house up to four apparatus, provide living quarters/facilities for 24 hour staffing, station training/meeting area for the duty crews, equipment maintenance area, gear storage area, exercise area, decontamination area, and station administrative/office area

**Funding Needed: \$4 Million**

## 5. Tie - Central Mat-Su Fire Service Area - Station 6-1 Addition/Upgrade

(CIP ID #286)

*Nominator: MSB Emergency Services*

This project will provide for the remodel/rehab of existing Station 6-1 located at 101 W. Swanson Avenue, Wasilla, Alaska. The project will add approximately 1000 square feet of administrative area, relocate and add square footage to the responder area, including a full commercial kitchen, dining area, storage, day area/study area, upgrade the HVAC systems, upgrade computer systems, and ensure

compliance with emergency responder radio operability standards. Station 6-1 is the main Station for the Central Mat-Su Fire Service Area and the Department of Emergency Services Core Ambulance Service. The station does not have sufficient space to accommodate personnel serving on 24-hour shifts; some 24 hour staff are sleeping in office space during the night. More full time positions are projected to be hired, which exacerbates the problem.

**Funding Needed: \$2.25 Million**

**5. Tie - Central Mat-Su Fire Service Area - Station 6-1 Addition/Upgrade  
(CIP ID #288)**

*Nominator: Wasilla-Lakes Fire Service Area*

This project will provide for an addition to Station 6-6 located at approximately mile 7.5 Fairview Loop Road. The addition will provide the ability to staff the station using a 24-hour shift model. The addition will consist of increasing the administrative area, a full commercial kitchen, dining area, sleeping area, bathrooms, storage, day area/study area, upgrading the HVAC systems, upgrading computer systems, ensuring compliance with emergency responder radio operability standards and one more drive through bay. The Fairview Loop area has experienced significant growth since Station 6-6 was built in 2011.

**Funding Needed: \$2.5 Million**

**6. Caswell Fire Service Area Underground Water Supply  
(CIP ID #215)**

*Nominator: MSB Emergency Services*

A dry hydrant is not feasible in the Hidden Hills area due to shallow water in most of the surrounding lakes. A 33,000 gallon automatic fill tank buried at Station 13-1 would assure a reliable water source. An in-tank pump can supply water to the tankers. The Hidden Hills area ISO rating will likely be reduced by the addition of this equipment.

**Funding Needed: \$230,000**

**7. Tie - Central Mat-Su Fire Service Area- Station 6-4 Addition/Upgrade  
(CIP ID #289)**

*Nominator: West Lakes Fire Department*

This project will build an addition to Station 6-4 located at W. Point Mackenzie Road. The project will add one 20' x 100' drive-through bay, a 50,000 gallon underground water storage unit with a 1000 gpm pump to fill tankers, additional paving around the building, security fencing, relocate fuel tanks, replace existing heating system and add exterior security lighting. The underground water storage will provide an additional water supply resource, which is sorely needed in this area for suppression activities. A more reliable and energy efficient heating system will reduce high heating costs. Relocating the fuel tanks and adding the security fencing and lighting will help to reduce thefts from the facility.

**Funding Needed: \$1.5 Million**

**7. Tie - Central Mat-Su Fire Service Area - Replacement Station 6-2 - Knik Public Safety Building  
(CIP ID #148)**

*Nominator: MSB Emergency Services*

The project proposes a new 28,000 square foot Knik Public Safety Building adjacent to the existing public safety building, at milepost 6.9, Knik-Goose Bay Road, on a 73.59 acre parcel. The existing facility is no longer adequate to meet the requirements for the growing community. The new station located at the intersection of Knik-Goose Bay and Vine Roads will allow for 24/7 staffing of emergency responders, firefighters, rescue technicians, emergency medical technicians, and paramedics. This will result in

decreased response times and an increase in the level of fire protection for the growing area. The project is part of the ten year master plan for the Station 62 Training Facility Complex and a part of the 15 Year strategic Plan for the Wasilla-Lakes Fire Service Area.

**Funding Needed: \$9.7 Million**

**8. Willow Fire Service Area Station 12-1 Replacement**  
(CIP ID #153)

*Nominator: MSB Emergency Services*

The Willow Fire Service has operated out of a 40 year old portable class room surplus by the School District many years ago. The building is not structurally sound, has an unstable foundation, leaking roof and has potential mold and asbestos problems. An engineering study in May 2013 recommended demolishing the building and re-building using conventional construction for a permanent structure. The new facility will house fire apparatus, firefighter personnel, equipment, supplies and incorporate administrative, meeting, and trailing spaces. The facility will be constructed on Borough owned land at mile 69.5 Parks Highway. This enhanced fire station will allow emergency responders and their apparatus and equipment to remain in the most strategic location to serve the population of Willow, as well as the many travelers along the S. Parks Highway from miles 59 through 80, and beyond.

**Funding Needed: \$3.5 Million**

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## **Emergency Services Facilities Needs List**

No Priority Order, Listed Alphabetically

**Aircraft Emergencies Training Facility**  
(CIP ID #134)

*Nominator: Central Mat-Su Fire Service Area*

This project will include the design and construction of a specific training site, the purchase of an aircraft training prop, curriculum/course development and implementation. Property was previously purchased with the expressed intent of developing a comprehensive emergency services training complex. The identified site has all utilities available. The estimated cost of the project is \$500,000 of which \$450,000 is requested from State funding and \$50,000 will be allocated from the MSB (Central Mat-Su Fire Service Area funds).

**Funding Needed: \$450,000**

**Butte Fire Station 2-1 Classroom Expansion**  
(CIP ID #190)

*Nominator: Butte Fire Department*

This project will construct a 22' by 24' addition to the existing training room which currently functions as a multi-purpose room for training, exercise, and public meeting space. The exercise equipment takes up approximately 40% of the area, which makes it very cramped for any meeting with over 20 participations. Total cost of the project is \$120,000.

**Funding Needed: \$75,000**

### **Caswell Fire Service Area Warm Storage Facility - Station 13-2**

**(CIP ID #191)**

*Nominator: MSB Emergency Services*

This warm storage facility will establish a location at Parks Highway MP 86, in the southern portion of the Caswell Fire Service Area, in which fire apparatus, equipment and personnel can be housed to more quickly respond to emergencies including residential and commercial properties as well as personal and commercial vehicles travelling the Parks Highway. The Borough owns a 20-acre parcel at mile 86 of the Parks Highway that has been “classified” for the construction of a Public Safety Building. The warm storage facility will serve as a temporary building until such time a more permanent fire station can be constructed. Currently, the closest Public Safety Buildings are located approximately six miles away in Caswell and at Mile 69.5 Parks Highway (approximately 16.6 miles to the south in Willow).

**Funding Needed: \$700,000**

### **Central Mat-Su Fire Service Area - Warehouse at South Regional Emergency Services Training Center**

**(CIP ID #147)**

*Nominator: Wasilla-Lakes Fire Service Area*

This project will construct a 10,000 square foot heated facility for a storage complex for supplies and equipment for the Central Mat-Su Fire Department on Borough land purchased in 2004 for the specific purpose of developing a public safety response and training complex. The building will have secure areas for clothing and personal protective equipment, including turnout coats, turnout pants, helmets, boots, gloves, hoods, wild land firefighting gear, rescue gear, apparatus appliances and equipment, and expendable items. Other areas will be devoted to hose storage, firefighting foam storage, snow plow storage, reserve apparatus, training props, and miscellaneous items. A section of the building will also be utilized as an indoor training area during severe weather conditions.

**Funding Needed: \$2 Million**

### **George Steffes Fire Station Expansion**

**(CIP ID #308)**

*Nominator: South Knik Community Council*

This project will add an 18' x 60' room to the south side of the fire station at approximately mile 5 on Kink River Road. . This addition will have one door facing west, with two 4' by 4' windows also in the west wall. The second door will allow entry in the fire station. The room will be heated and lite, with electrical outlets every 15'. The east end of the room will be partitioned off to provide a 20' by 18' storage room with lights, heat and an electrical outlet on each wall.

**Funding Needed: TBD; Community Council has \$95,000**

### **Mathew Public Safety Building Floor – Lake Louise**

**(CIP ID #298)**

*Nominator: MSB Assembly*

The slow motion failure of the current foundation continues at the Lake Louise EMS building that was constructed in 2010. After construction the foundation settled quickly and repairs were made by the contractor at no cost. The building seemed stable, but in 2012 parts of the foundation started settling further and that process accelerated to the point that the doors had to be adjusted to open and the foundation continues to degrade. Capital Projects investigated the situation with two contractors and the most cost-effective solution is to pick up the existing building and move it onto a new refrigerated foundation. The new foundation will be allowed to sit and cure for a year before the existing structure is moved onto it. This critical EMS facility in the farthest reaches of the Mat-Su Borough is an important asset to the community and the Borough that needs to be maintained.

**Funding Needed \$700,000**

### **Sutton Ambulance Building Retrofit and Renovation Planning Phase**

**(CIP ID #203)**

*Nominator: MSB Emergency Services*

The renovation and retrofit of the previous Sutton Library building to create a dedicated EMS location will provide the Sutton Ambulance Service with increased capacity for storage, provide training and office space, and free up space in Sutton Fire Station 1-1 where the ambulance is currently housed. The Sutton Ambulance Service is responsible for MP 54 to 140 along the Glenn Highway. Training EMS personnel requires dedicated training space in a secure location, with a sufficient amount of space that allows for realistic simulated patient encounters.

**Funding Needed: \$350,000**

### **West Lakes Fire Service Area - Emergency Water Supply System**

**(CIP ID #143)**

*Nominator: West Lakes Fire Service Area*

This project will install 20, 40,000-gallon self-filling water supply tanks. Currently there is no municipal water supply system in either of the communities of Big Lake or Meadow Lakes. The fire department must shuttle water, sometimes long distances, to supply emergency firefighting operations. This becomes especially challenging during winter months. The underground water tanks would provide reliable, secure, self-sustaining water supply sites with 1,000 gallon per minute pumps to fill fire trucks quickly. Total cost of the project is \$400,000.

**Funding Needed: \$350,000**

### **West Lakes Fire Service Area Station 7-1 Modification**

**(CIP ID #196)**

*Nominator: West Lakes Fire Service Area*

Station 7-1 at MP 2.2 Pittman Road will be enlarged to double the size of the classroom room, office, and storage areas. The existing structure was built in 1985 and two additional apparatus bays were added in the early 1990s. The fire department has once again outgrown the station. During the renovation and expansion technical and audio/visual equipment will be expanded to enhance training activities and meetings. The project will allow for adequate staffing of officers/supervisors. The increase in storage area is needed to safely warehouse equipment that must be kept in a warm, dry environment, which is currently not possible.

**Funding Needed: \$500,000**

### **West Lakes Fire Service Area - Station 7-3 - Parks Highway**

**(CIP ID #152)**

*Nominator: West Lakes Fire Service Area*

Construction of a new 24,000 square foot fire station at Mile 51.3 of the Parks Highway, with facilities for 24 hour staffing of responders, centralized administrative offices, rooms for training and meetings, and several bays to stage emergency response apparatus. The strategic location sits at the confluence of three communities, Big Lake, Meadow Lakes and the City of Houston. Sited adjacent to the Parks Highway it will provide for a more rapid response to emergencies in the primary FSA of West Lakes, as well as the other communities that we provide mutual and automatic aid to. Currently the West Lakes

FSA has a very limited ability to provide 24 hour staffing out of any fire station. Office space is converted closets and storage rooms at three stations and two stations do not have any office space at all. Training has to be split between stations because the training rooms are too small to hold all of the responders. During winter months vehicles must be parked outdoors.

**Funding Needed: \$6 Million**

### **West Lakes Fire Service Area - Station 7-4 - Gun Flint Trail**

**(CIP ID #150)**

*Nominator: West Lakes Fire Department*

The project will construct a new fire station in the Gun Flint Trail area. The new station will provide coverage to a portion of the West Lakes FSA that is beyond five road miles from a fire station. Residents beyond five road miles from a fire station are considered to have "zero" protection and pay considerably more for homeowners insurance than those that live within the five road miles. The fire station will initially house two fire trucks, and a training room, and provide overnight accommodations for emergency responders. The facility will be designed so that it can easily be enlarged at a later date if the need arises.

**Funding Needed: \$2.5 Million**

### **West Lakes Fire Service Area Station 8-1 Modification**

**(CIP ID #197)**

*Nominator: West Lakes Fire Service Area*

This project will enlarge Station 8-1 at MP 4.5 South Big Lake Road by constructing two 40' by 80' apparatus bays on the north side of the building. The project is necessary to provide indoor parking for fire department vehicles that are currently parked outside, even during the harsh winter months due to lack of indoor space. By not being able to park these vehicles inside, they are not readily available to respond as necessary when temperatures are cold or weather conditions require the vehicles to be prepped before they can be used. Also, subjecting these vehicles to the harsh winter climate may result in a reduced useful life and an increase in maintenance costs.

**Funding Needed: \$500,000**

### **West Lakes Fire Service Area - Station 8-3 - Purinton Parkway Station**

**(CIP ID #151)**

*Nominator: West Lakes Fire Department*

Construct a new fire station on the corner of Purinton Parkway and West Susitna Parkway in Big Lake. Seven and one-half acres of land have been set aside and designated as public safety property to construct a future fire station on the corner of West Susitna Parkway and Purinton Parkway. The fire station will initially house two fire trucks and a training room, and provide overnight accommodations for emergency responders. The new station will provide coverage to a portion of the West Lakes FSA that is beyond five road miles from the nearest fire station. Residents who live more than five road miles from a fire station are considered to have "zero" protection and pay considerably more for homeowners insurance than those that live within the five road miles. The project can also attract and provide protection coverage to areas of Big Lake that are not currently part of the FSA.

**Funding Needed: \$2.5 Million**

### **West Lakes Fire Service Area - Warehouse, Training and Maintenance Facility**

**(CIP ID #195)**

*Nominator: West Lakes Fire Service Area*

Construct a fire department warehouse at Station 8-1, MP 4.5 South Big Lake Road. This facility would serve as the primary equipment storage and equipment maintenance facility for the West Lakes FD.

Currently Connex container trailers are at all the West Lakes Fire Stations for cold storage. They only have minimal inside warm storage capabilities. The warehouse will fulfill all of the storage requirements. The warehouse would also provide a facility for initial and ongoing fire truck apparatus engineer/operator training. This is especially important during winter months when outside training and testing is almost impossible. It would also provide a facility in which vehicle mechanics can operate and test fire trucks to help ensure they are working properly and are being maintained in optimum condition.

**Funding Needed: \$2 Million**

### **Willow Ambulance Property and Building Purchase**

**(CIP ID #275)**

*Nominator: MSB Emergency Services*

Willow Ambulance is currently leasing a facility on Willow Creek Parkway which is for sale. There is insufficient space to house the equipment at any other location. Over the five years of the lease agreement the department will pay almost 55% of the purchase cost of \$359,900. The property is 4.24 acres, and includes a 2,811 sq. ft. single family home and a 5,000 sq. ft. shop used to house the ambulance. The house can be retrofitted to become a local EMS training location and provide crew quarters which will become a necessity as the community grows. The project request is to purchase the site (MLS ID#11-14919).

**Funding Needed: \$360,000**

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# General Public Facilities

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## PRIORITY PROJECTS

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1. Gateway Visitors Center (CIP ID #168)
2. Consolidated Fleet Services Complex (CIP ID #167)
3. South Denali Visitors Center (CIP ID # 70)
4. Willow Library Project (CIP ID #279)
5. Birch Creek Villas (CIP ID #111)
6. Historic Fairview School (CIP ID #162)

## Project Descriptions

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### 1. Gateway Visitors Center

(CIP ID #168)

*Nominator: MSB Planning*

The goal of the project is to create a lively, attractive, well-designed space where residents and visitors can directly experience the wealth of cultural, natural, recreational and business amenities in the Mat-Su Valley. It is envisioned as a destination in its own right situated on a bluff with a dramatic view of Pioneer Peak and the surrounding area. Potential partners are involved in the preliminary planning phases. Over 780,000 annual visitors enter the Borough each year and by providing a singular destination with information could be enticed to prolong their stays in the Mat-Su, translating to greater economic activity for the Borough. A feasibility study was completed with funding from the National Scenic Byways program.

**Funding Needed: \$5 Million**

### 2. Consolidated Fleet Services Complex - Preliminary Design and Planning

(CIP ID #167)

*Nominator: MSB Emergency Services*

Currently, the Matanuska-Susitna Borough operates three fleet maintenance operations: These three operations utilize facilities that are old and are not “purpose-built” to perform an efficient and effective fleet maintenance mission; rather, they are warm storage spaces that have been converted and adapted to fleet maintenance operations. A new facility needs to be designed to allow for a 24-hour operation so as to deliver the level of “after-hours” customer service necessary to keep these important fleets operating at maximum efficiency. The facility used to service the Emergency Services fleet is located in a building the Borough does not even own; the lease expires in 2017. Funding is sought to review the current situation and renovate or design a new, consolidated fleet services structure. This consolidated facility will service the Public Works Department, the Emergency Services Department, and Community Development Department's Parks/Recreation/Trails Division.

**Funding Needed: \$11 Million**

### 3. South Denali Visitors Center

(CIP ID #70)

*Nominator: MSB Planning*

The project will open up the south side of Denali National Park by constructing a year-round recreation facility with the dual purpose of a warming facility for snow machiners, and information for hikers and tourists. The facility will have road access throughout the year, as opposed to the north side of the park which closes for the winter. The Center is a partnership between the State of Alaska, National Park Service, Borough, and private entities. The project is supported by the Y Community Comprehensive Plan as well. Tourists are projected to spend an additional \$44 Million in the Borough once the Center opens its doors. Total cost of the project is \$35 Million, with \$7 million already allocated.

***Funding Needed: \$8 Million in State Funds to match \$20 Million of Federal Funds***

### 4. Willow Library Project

(CIP ID #279)

*Nominator: MSB Public Works*

The existing Willow Library has outgrown its current space and will not support the projected population increases in its current configuration. The existing square footage is approximately 2,600 sq. ft., and based on existing and future needs the facility will need to be approximately 7,500 sq. ft. The Willow Library is the next project in the MSB Library Network Strategic Plan. Predevelopment planning for the project has been undertaken with the Foraker Group.

***Funding Needed: \$5.5 – 6 Million***

### 5. Birch Creek Villas - Eight Unit Housing Complex - Phase 2

(CIP ID #111)

*Nominator: Meadow Lakes Community Council*

The original eight senior housing units in Birch Creek Villas were jointly financed by MLCC and Seniors, Inc. for \$2.1 Million. The units are currently at full occupancy and empty units turn over quickly. Seniors, Inc. is starting an additional eight units on eight acres donated by MLCC. Seniors will benefit from the availability of affordable housing which is constructed specifically to meet their needs. Walking and exercise trails are also being co-developed to serve the residents and the surrounding community. The Meadow Lakes Comprehensive Plan supports the project.

***Funding Needed: \$2.2 Million***

### 6. Historic Fairview School

(CIP ID #162)

*Nominator: M. Heaven*

The historic Fairview School was one of the first schools in the Matanuska Valley. The school house is located on the west side of the Seward Meridian Parkway, south of the railroad tracks, and north of Fairview Loop Road. It was located as to be equal distances from two homesteads which had the largest number of children attending. In the 1980s the Borough restored the building and had a ceremony that featured some of the students from the 1920s. Since then, the building has languished with little attention and has seemingly been abandoned; consequently vandalism has occurred. There is no public access to the school. This project would save and protect the structure which could be used for educational events for students to learn more about the fascinating history of the Valley. Residents and visitors will benefit from the historical connection, historic construction style, and the ability to use the building for educational and cultural events.

***Funding Needed: TBD***

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# Recreational Facilities

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## Priority Projects

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1. Government Peak Recreation Area (CIP# 236)
2. Jim Creek Improvements (CIP #225)
3. Core Area Trail and Park Improvements (CIP #227)
4. Brett Memorial Ice Arena - Facility Upgrades (CIP #99)
5. Government Peak Nordic Ski Area – Phase 2 (CIP #170)
6. Big Lake Boat Bilge Water Disposal Site (CIP #190)  
South Big Lake Boat Launch Public Park - Master Plan (CIP #97)
7. Government Peak Multi-Use Facility – Phase 2

## Project Descriptions

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### 1. Government Peak Recreation Area

(CIP ID #236)

*Nominator: MSB Community Development*

This project will fund key capital improvements in the Government Peak Recreation Area. Natural gas will be extended to the Transit Center and North Mountain Trails Drive.

**Funding Needed: \$6.65 Million**

### 2. Jim Creek Improvements

(CIP ID #225)

*Nominator: MSB Community Development*

Jim Creek is the gateway to the Kink Recreation and Public Use Area. The parking area attracts hundreds of users each weekend. The Borough has been implementing portions of the Jim Creek Master Plan and is currently developing the parking area. Grant funding has been received to construction three miles of motorized, technical trails as well. The next phase of the program calls for a formalized camp area with hardened road and camp sites, a CXT type restroom and a hand-pump well. If funds are available, a “learn-to-ride” loop for children will be built.

**Funding Needed: \$250,000**

### 3. Core Area Trail and Park Improvements

(CIP ID #227)

*Nominator: MSB Community Development*

This project will begin to implement projects in recently completed master plans: Crevasse Moraine, Lazy Mountain, and Mat-River Park. The improvements include trail upgrades and repair, building repair and renovation, restroom improvements, and parking lot improvements. The goal of the Community

Development Department is to begin funding master plan recommendations within 12 months of plan adoption. Sites included in this proposal include The Lazy Mountain Trailhead off Huntley Road, Crevasse Moraine trails off Loma Prieta Road, accommodation of the landfill expansion, and Mat-River Park at approximately MP 17.5 of the Old Glenn Highway. Other sites may include Cottonwood Lake access, Walby Lake, Finger Lake, and other sites to be determined based on seasonal needs and funding availability.

**Funding Needed: \$100,000**

#### **4. Brett Memorial Ice Arena - Facility Upgrades**

(CIP ID #99)

*Nominator: MSB Community Development*

Several items are needed to upgrade the services at the ice arena. Rubber flooring throughout the arena, locker rooms, and bathrooms need to be replaced in the aging facility. These upgrades will contribute to making the arena a safer environment. To maximize the utilization of the building, a rink divider system should be purchased to make the arena more flexible and responsive to customer demands. Also included in this project is a programmable electronic sign for the facility. The arena is located in a high traffic area on the corner of Crusey Street and Bogard Road. The sign will be used to promote events at the arena and to promote other Borough activities.

**Funding Needed: \$95,000**

#### **5. Government Peak Nordic Ski Area - Phase 2**

(CIP ID #170)

*Nominator: MSB Community Development*

The Hatcher Pass Nordic Ski Area offers premier trails for cross-country skiing, running, and mountain biking. The trails in Phase 1, constituting ten kilometers of beginner and intermediate year round trails, were completed during the summer of 2012 due in large part to volunteer efforts. Phase 2 of the project will construct five to ten kilometers of lighted Olympic-class trails. The project promotes economic diversification with new recreational draws, and supports school programs, ski clubs, runners clubs, and regional competitions. The addition of Olympic caliber trails will increase the benefits. The project is supported in the plan "Hatcher Pass - A New Beginning" 2010.

**Funding Needed: \$4 Million**

#### **6. Tie - Big Lake Boat Bilge Water Disposal Site**

(CIP ID #90)

*Nominator: Big Lake Community Council*

Big Lake has been designated by the Alaska Department of Environmental Conservation as an impaired water body. This project will construct disposal and treatment sites for bilge water to provide an alternative to the current practice at the Big Lake State Park facility of releasing bilge water back into the lake. The addition of bilge water disposal sites will be a positive step in getting Big Lake removed from the impaired water body designation. Failure to maintain a clean water body will damage the aquatic life and could have an adverse effect on the recreational activities that are the major economic life-blood of the area, and cause financial strife. The project is supported by the Big Lake Comprehensive Plan.

**Funding Needed: TBD**

**6. Tie - South Big Lake Boat Launch Public Park**

**(CIP ID #97)**

*Nominator: MSB Community Development*

The existing boat launch on the 15-acre Borough property is in disrepair and causing damage to trailers. The sand base is eroding and the concrete has settled in some years and heaved in winter. Additionally, the existing parking lot is not adequate to support the number of vehicles which use the facility

**Funding Needed: \$50,000 for Phase 1**

**7. Government Peak Multi-Use Facility - Phase 2**

**(CIP ID #237)**

*Nominators: MSB Community Development*

This project will begin the expansion of the recently constructed transit facility. The structure was originally envisioned as a simple transit facility, but was reconfigured to include basic accommodations for skiers as well provide needed public meeting space in the community.

**Funding Needed: \$1.3 - \$1.6 Million**

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## **Recreational Facilities Needs List**

**No Priority Order, Listed Alphabetically**

**Jordan Lake Community Park Enhancements**

**(CIP ID #92)**

*Nominator: Big Lake Community Council*

This project will complete the wetland boardwalk and develop the garden areas on the Jordan Lake parcel in keeping with the 2003 Jordan Lake Parcel Master Plan adopted by the Borough Assembly in April 2004. The purpose of the project is to enhance the natural areas in the community, construct community spaces, create opportunities to bring people together, and develop youth opportunities linked to the library and school programs. The project will support the development of a strong business core, enhance the small town feel, preserve natural character, and supply educational opportunities for young people.

**Funding Needed: \$50,000**

**Little Susitna River Park at Olson Bridge**

**(CIP ID #93)**

*Nominator: Meadow Lakes Community Council*

The Little Susitna River is designated as a State Recreation River. This project will create a five-acre riverside community park with multi-use trail access connecting to other trail systems in the community. By constructing the facility near the Olson Bridge it may be possible to partner with the Knikatu Native Corporation which owns adjacent lands. Visitors and residents will benefit from the project.

**Funding Needed: TBD**

### **Meadow Lakes Equestrian Park**

**(CIP ID #95)**

*Nominator: Meadow Lakes Community Council*

The project proposes to construct a 30-acre equestrian park on a portion of a 120-acre Borough site, classified as public use, which is adjacent to land owned by the Meadow Lakes Community Council, Inc. The park will include an arena and trails which could also be used for cross country running and skiing. In addition to the health benefits of the project, it will also help to create economic activity. The Meadow Lakes Comprehensive Plan supports this project which will take three to four years to complete.

**Funding Needed: TBD**

### **Meadow Lakes Island Lake Public Park**

**(CIP ID #230)**

*Nominator: Meadow Lakes Community Council*

The project will create a public park on one of the few water bodies remaining in Meadow Lakes with enough area available for the purpose. Island Lake has approximately 70,000 square feet which could be developed as park land. It can be difficult to locate public access and adequate parking facilities in the Meadow Lakes Community. A public park with lake front and minimal infrastructure will benefit the community of Meadow Lakes by providing greater recreational opportunities.

**Funding Needed: TBD**

### **Meadow Lakes Off-Leash Dog Park**

**(CIP ID #96)**

*Nominator: Meadow Lakes Community Council*

The non-leash dog park will be located on a portion of the 120 acres of Borough property dedicated to public use in Meadow Lakes. The park will benefit residents who will be able to exercise their dogs safely, in an appropriate environment. Loose dogs running free can harass moose, other dogs, and children, creating an unsafe environment.

**Funding Needed: TBD**

### **Meadow Lakes Sports Fields**

**(CIP ID # 229)**

*Nominator: Meadow Lakes Community Council*

The Meadow Lakes Sports Fields have progressed in incremental phases. This portion of the project will complete the baseball diamonds at the site. Depending on the level of funding, the tennis court could also be started. The playground was completed in 2012, with final landscaping in 2013. The soccer field is ready for use after a two-year settling process. Local residents of Meadow Lakes will benefit from the recreational opportunities of all the improvements to the Sports Field complex.

**Funding Needed: TBD**

### **Meadow Lakes Swimming Pool**

**(CIP ID #119)**

*Nominator: Meadow Lakes Community Council*

This project will construct a pool on a 40 acre parcel within the Borough's 120 acres in Meadow Lakes. The pool is envisioned next to a high school on the same acreage.

**Funding Needed: TBD**

### **Point MacKenzie Multi-Use Recreation Area**

**(CIP ID #3)**

*Nominator: MSB Planning*

This project starts with the design and eventual construction of a multi-use regional recreational site on 320 acres of Borough-owned land located at approximately MP 9 on Point MacKenzie Road, west of the Goose Bay State Game Refuge. The design, layout, and planning of the site should precede logging, sand and gravel mining, and reclamation to help ensure maximum benefit of Borough resources. Parking lots, bathrooms, boat docks, campsites, and shooting ranges are possible facilities on the recreational site. Approximately 30,000 people live in the region this facility would support. The Point MacKenzie Comprehensive Plan endorses the project. Completion is estimated five years post funding: one year for design, two years for natural resource extraction, and two years for construction.

***Funding Needed: \$2.5 Million***

Draft

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# Highway Separated Trails

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## Priority Projects

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1. Old Glenn Pathway Extension to Knik River (CIP #297)
2. Palmer-Fishhook Road Highway Separated Trail (CIP #243)
3. Parks Highway - Talkeetna Spur Road Pedestrian Safety Improvements (CIP #76)
4. Pittman Road Highway Separated Trail (CIP #78)
5. Seldon Road Extension – Phase 2 Highway Separated Trail (CIP #64)  
West Seldon Road Highway Separated Trail (CIP #89)
6. Church Road Highway Separated Trail (CIP #67)
7. Bogard Road Highway Separated Trail - Trunk Road to Seldon/Bogard Intersection (CIP #65)
8. Schrock Road Highway Separated Trail (CIP #80)  
East Seldon Road Highway Separated Trail (CIP #81)
9. Long Lake Road Highway Separated Trail (CIP #71)
10. Bogard, 49<sup>th</sup> State Street Highway Separated Trail (CIP #71)

## Project Descriptions

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### 1. Old Glenn Pathway Extension to Knik River (CIP ID #297)

*Road Class: Minor Arterial*

*Nominators: MSB Assembly*

This voter approved project will extend the shared use pathway along the west side of the Old Glenn Highway from Plumley Road to the Knik River. This 55 mile-per-hour section of the Old Glenn Highway has no shoulders, no separated pathway, and negotiates a narrow road easement that includes a blind curve. It is a health and safety priority connecting with the separated bike path system on the Palmer/Wasilla Highway and the Old Glenn north of Plumley Road. Construction will include a 10-foot wide paved pathway, increased roadside clear zone and roadside ditches with increased capacity. Preliminary design is nearly finished. Several slivers of right-of-way need to be acquired and a few utility relocations need to be done to facilitate construction.

**Funding Needed \$1.25 Million**

## 2. Palmer-Fishhook Road Highway Separated Trail

(CIP ID #243)

Road Class: *Minor Arterial*

Nominators: *MSB Community Development*

Many recreational, commuting and touring bicyclists, roller-bladers, as well as participants in annual races, use the narrow shoulder on Palmer-Fishhook Road to access the new Government Peak Recreation Area trails, the Moose Range trails, local subdivisions, and Hatcher Pass. A separated pathway from the Glenn Highway to the Little Susitna River Bridge will increase motor vehicle safety and the safety of pedestrians and others who utilize this important transportation route. The pathway will provide a seamless pedestrian route when it connects to the newly constructed pathway on Trunk Road. This project could be combined with Phase 1 from the Glenn Highway to Trunk Road (approximately 2 miles), Phase 2 from Trunk Road to the Wasilla-Fishhook intersection (approximately 4.5 miles), and Phase 3 from Wasilla-Fishhook intersection to the Little Susitna River Bridge (approximately 1.5 miles).

**Funding Needed: \$10 Million**

## 3. Parks Highway - Talkeetna Spur Road Pedestrian Safety Improvements - Partially Funded

(STIP #26129, CIP ID #76)

Road Class: *Interstate*

Nominator: *State STIP*

The project encompasses pedestrian safety improvements in the general vicinity of the Parks Highway/Talkeetna Spur Road intersection. Specific improvements include: 1) a lighted Parks Highway underpass from Helena Avenue to the north side of the Susitna Valley Middle/High School driveway, 2) a pathway on the east side of the Parks Highway from the underpass north to the Talkeetna Spur Road, and 3) painted crosswalks across the Talkeetna Spur Road connecting the improvements to the existing bike trail. The Susitna Valley Middle/High School is directly across from the senior center, and in the vicinity of numerous businesses. A safe route to and from the school is needed to protect all the students, as well as facilitate traffic along the Parks Highway, a major state transportation route.

**Funding Needed: \$3.2 Million**

## 4. Pittman Road Highway Separated Trail

(CIP ID #78)

Road Class: *Major Collector*

Nominators: *MSB Community Development/Meadow Lakes Community Council*

The project will design and construct a roadside trail on Pittman Road from the Parks Highway to Church Road, a distance of nine miles. The traffic patterns and heavy utilization of the transportation corridor make this project a priority. The enhancements will provide for safer, more functional roadside traffic. This trail is part of the Pittman Road, Church Road, and Parks Highway Master Circle Trail system. The Meadow Lakes Comprehensive Plan and Mat-Su Borough Recreational Trails Plan support the project.

**Funding Needed: \$4.5 Million**

**5. Tie – Seldon Road Extension – Phase 2 Highway Separated Trail**

**(CIP ID #64)**

*Road Class: Major Collector*

*Nominator: Meadow Lakes Community Council*

This is a companion project to the Beverly Lake Road connector project (CIP ID #42) in the Community Transportation Program section of this document. The connector road from Church Road to Pittman Road was part of the 2011 Borough bond package. When Beverly Lake Road is extended, a multi-use trail component should be included in the design. The current road is narrow and curvy which creates a safety issue with other uses sharing the roadway.

**Funding Needed: \$2 Million**

**5. Tie - West Seldon Road Highway Separated Trail**

**(CIP ID #89)**

*Road Class: Major Collector*

*Nominator: MSB Community Development*

The project will design and construct a paved pedestrian and bike trail on West Seldon Road. The trail will begin at the intersection of Seldon and Lucille Street and continue for one mile west to Wards Drive. The project will provide safe access in this heavily-travelled area.

**Funding Needed: \$1 Million**

**6. Church Road Highway Separated Trail**

**(CIP ID #67)**

*Road Class: Major Collector*

*Nominators: Meadow Lakes Community Council/MSB Community Development*

The project will design and construct a trail along the entire length of Church Road. The trail will connect to the proposed Pittman Road highway separated trail at the intersection of Church and Pittman Roads, to the Spruce Road trail, as well as to the Bumpus Ball fields in Wasilla. The project will provide safe pedestrian/bike access along this heavily-travelled route. Church Road is part of the Pittman Road, Church Road, and the Parks Highway Master Circle Trail system. The Meadow Lakes Comprehensive Plan and the Mat-Su Borough Long Range Transportation Plan support the project.

**Funding Needed: \$2 Million**

**7. Bogard Road Highway Separated Trail - Trunk Road to Seldon/Bogard Intersection**

**(CIP ID #65)**

*Road Class: Major Arterial*

*Nominator: MSB Community Development*

The project will design and construct a paved pedestrian and bike trail on Bogard, a major arterial transportation route in the Borough. This project begins at Trunk Road and proceeds west to the Seldon/Bogard intersection. A highway separated trail will provide safe access along this heavily-travelled route. Acreage or right-of-way is required along the three-mile route.

**Funding Needed: \$3 Million**

**8. Tie - Schrock Road Highway Separated Trail**

**(CIP ID #80)**

*Road Class: Minor Collector*

*Nominator: Meadow Lakes Community Council*

The project will design and construct a paved trail from the intersection of Schrock and Church Roads to the Olson Bridge on the Little Susitna River. By providing a safe trail to the river, residents and tourists will have better access to the river. The project will greatly enhance the safety of people who hike or

ride bikes, horses, or ATVs to the river. This trail connects to the Pittman Road, Church Road, and Parks Highway Master Circle trail system. The Meadow Lakes Comprehensive Plan supports the project.

**Funding Needed: TBD**

**8. Tie - East Seldon Road Highway Separated Trail**

**(CIP ID #81)**

*Road Class: Minor Arterial*

*Nominator: MSB Community Development*

The project will design and construct a paved pedestrian and bike trail on East Seldon Road. The trail will begin at the intersection of Seldon and Bogard Roads and continue for four miles west to Lucille Street. The project will provide safe access in this heavily-travelled area.

**Funding Needed: \$4 Million**

**9. Long Lake Road Highway Separated Trail**

**(CIP ID #71)**

*Road Class: Minor Collector*

*Nominators: MSB Community Development/ Willow Area Community Organization*

The project will design and construct a 1.75-mile paved pedestrian/bike trail beside Long Lake Road heading west from the Parks Highway to the intersection with Frank Road. Long Lake Road is a 45 mph road that carries heavy vehicular traffic amongst residential areas, local businesses, and public facilities. The current practice of sharing the road between vehicles, pedestrians, and bikers creates a severe safety hazard. The project is supported by the Borough Trail Plan and the Willow Area Trail Plan.

**Funding Needed: \$1.75 Million**

**10. Bogard, 49<sup>th</sup> State Street Highway Separated Trail**

**(CIP ID #303)**

*Road Classes: Minor Arterial, Major Collector*

*Nominator: Gateway Community Council*

The current pedestrian trail along the newly opened Bogard Road East ends at the Colony Schools parking lot. This project will extent the trail west along Bogard to meet the New Trunk Road pedestrian trail and south along 49th State Street to connect with the Palmer Wasilla Highway pedestrian trail. This will complete the loop which ties the Bogard and the Palmer Wasilla Highway together and feeds the Colony School system. School children walking or biking along Bogard or 49th State Street without the protection of a trail or sidewalk will have a safe route to school. The general population will benefit from having more trails connected throughout the Borough.

**Funding Needed: \$1 Million**

# Highway Separated Trails Needs List

## No Priority Order, Listed Alphabetically

### **Meadow Lakes Community Center to Parks Highway Separated Trail**

(CIP ID #245)

*Road Class: Residential and Major Collector*

*Nominator: Meadow Lakes Community Council*

This project constructs a trail from the future community center along W. Stacy Street, North Suzanna Street and Vienna Woods Access Road to the Parks Highway separated trail. This will connect the future community center to the Master Circle of Parks Highway, Pittman Road, and Church Road trails which will provide access to other trails in the area such as the Lucille Creek trail. The trail is supported by the Meadow Lakes Comprehensive Plan.

**Funding Needed: TBD**

### **Meadow Lakes Community Center to Pittman Road Separated Trail**

(CIP ID #246)

*Road Class: Residential*

*Nominator: Meadow Lakes Community Council*

This project constructs a trail from the future community center along W. Karen Street, Kathi Drive, Barbi Drive and Kim Drive to the Pittman Road separated trail. This will connect the future community center to the Master Circle of the Parks Highway, Pittman Road, and Church Road trails which will provide access to other trails in the area such as the Little Su Trail Bridge to Bench Lake. The trail is supported by the Meadow Lakes Comprehensive Plan.

**Funding Needed: TBD**

### **Vine Road Separated Trail**

(CIP ID #247)

*Road Class: Residential*

*Nominator: Meadow Lakes Community Council*

This project will design and construct a roadside trail on Vine Road from the Parks Highway. The traffic patterns and heavy utilization of the transportation corridor makes this project a priority. The enhancements will provide for safer, more functional roadside travel. It will be most cost efficient to construct the trail while the roadbed is being upgraded. The trail is supported by the Meadow Lakes Comprehensive Plan.

**Funding Needed: TBD**

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# Recreational Trails

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## Priority Projects

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1. Bald Mountain Motorized Use Parking Area and Trailhead Development (CIP #63)
2. Eska Creek Falls Trail (CIP #69)
3. Lucille Creek Multi-Use Trail (CIP #72)
4. Austin Helmers Pioneer Ridge Trail (CIP #305)
5. Kenlar Road to Hawk Lane - Paved Non-Motorized Trail (CIP #77)
6. Little Su Trail Bridge to Bench Lake (CIP #88)  
Lucille Creek Trail Collector (CIP #73)  
Wasilla Creek Headwaters Trail (CIP #85)
7. Big Lake Multi-Use Pathway Extension Across Fish Creek (CIP #66)  
Meadow Lakes Loop Multi-Use Trail (CIP #75)  
Meadow Lakes Multi-Use Trails (CIP #74)

## Project Descriptions

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### 1. Bald Mountain Motorized Use Parking Area and Trailhead Development (CIP ID #63)

*Nominator: Meadow Lakes Community Council/Assembly*

These funds will be used to enhance recreational opportunities for snowmachine (motorized) use in the Hatcher Pass Management Area. Funds will be used for some land and easement acquisition, to construct or improve parking and trailheads.

**Funding Needed: \$1.25 Million**

### 2. Eska Creek Falls Trail (CIP ID #69)

*Nominator: MSB Community Development*

Project includes construction of both motorized and non-motorized trails to the Knob Hill Area. The motorized portion of the project received partial funding last year from the Recreational Trails Program Grant. The non-motorized portion is complete. Locals and visitors, both motorized and non-motorized trail users will benefit from separate uses. A rerouted motorized trail will help mitigate adverse impacts to natural resources.

**Funding Needed: \$500,000**

### 3. Lucille Creek Multi-Use Trail

(CIP ID #72)

*Nominator: Meadow Lakes Community Council*

This project connects the existing Lucille Creek trailhead at the Wasilla Sports Complex to Meadow Lakes' western boundary of Johnson Road. Eventually trail users will be able to access the Big Lake Trail system. Currently, the winter pioneer trail is narrow and winding, and presents hazards for users who meet along the trail. When completed, the project will attract snow machine and ATV riders who typically travel alongside the Parks Highway which is confusing to automobile drivers and dangerous to riders. The Meadow Lakes Comprehensive Plan supports the project.

**Funding Needed: TBD**

### 4. Austin Helmers' Pioneer Ridge Trail

(CIP #305)

*Nominator: South Knik River Community Council*

Currently overflow traffic at the Austin Helmers Pioneer Ridge Trail Parking Lot parks along Knik River Road, which has a speed limit of 50 mph and no shoulders. The curves and hills west of the entrance located approximately at mile 3.8 impair sight distance and increase the possibility of a traffic/pedestrian mishap. By enlarging the parking lot and installing signage alerting approaching traffic of entry to the parking lot will remove this safety hazard.

**Funding Needed: \$50,000**

### 5. Kenlar Road to Hawk Lane - Paved Non-Motorized Trail

(CIP ID #77)

*Nominator: Big Lake Community Council*

This project will construct a non-motorized, paved trail alongside Kenlar Road to Hawk Lane, and then to Beaver Lake Road. Currently, Houston Middle and High school students and Mid Valley Seniors have no other option but to use the road when walking or biking in this area. The track teams also have to run along this route and it is extremely dangerous. The Big Lake Comprehensive Plan supports the project.

**Funding Needed: TBD**

### 6. Tie - Little Su Trail Bridge to Bench Lake

(CIP ID #88)

*Nominator: Meadow Lakes Community Council*

This project will construct a 10' by 40' long trail bridge across the Little Susitna River. Both approaches to the bridge have been grubbed and cleaned, and the lower portion has been surveyed. The trail bridge will connect State land to a recreational area at the end of the trail known as Bench Lake, a popular fishing destination. The trail will also connect with the Willow trail system. The project is supported by the Meadow Lakes Comprehensive Plan and the Meadow Lakes Trails Plan.

**Funding Needed: TBD**

### 6. Tie - Lucille Creek Trail Collector

(CIP ID #73)

*Nominator: Meadow Lakes Community Council*

This project starts at the Wasilla Sports Complex and will construct trails into the Big Lake area and further north. This proposed trail will connect the Lucille Creek Trail to the Pittman Trail and the Parks Highway Trail. When this trail system is complete, a user will be able to access the State recreational areas on Bald Mountain through the Meadow Lakes community. The project is supported by the Meadow Lakes Comprehensive Plan and Meadow Lakes Trails Plan.

**Funding Needed: TBD**

**6. Tie - Wasilla Creek Headwaters Trail**  
(CIP ID #85)

*Nominator: MSB Community Development*

This project includes trail hardening, bridges, and a restroom facility for Wasilla Creek Headwaters Trail system, a multi-use, year round trail with a small trailhead at the east end of Wendt Road. There are approximately four miles of trail improvements included in the project cost. This is supported by the Borough Trails Plan.

**Funding Needed: \$500,000**

**7. Tie - Big Lake Multi-Use Pathway Extension Across Fish Creek**  
(CIP ID #66)

*Nominator: Big Lake Community Council*

The project will extend a multi-use pathway approximately 1,700 feet from Casey Drive, across Fish Creek and into the Big Lake South State Recreation Area. Six handicap accessible parking spaces will be constructed along the pathway near Fish Creek to provide access in compliance with ADA. This project will increase safety for pedestrian and bike users by providing an alternative to crossing a narrow and dangerous vehicular bridge at Fish Creek. This project is supported by the Big Lake Community Comprehensive Plan.

**Funding Needed: TBD**

**7. Tie – Chickaloon Community Trail System**  
(CIP ID #304)

*Nominator: Chickaloon Trail Club*

This project will construct a 3-mile trail system for the residents of Chickaloon. The trails will be multi-use built to sustain foot traffic, mountain bikes, small ATV's and horses in the snow-free months; and snowmachines and skis in the snow months. The trails are intended to create a place where the residents of Chickaloon can recreate without trespassing on private land. The location, on 160-acres of Borough-owned land (designated in the comprehensive plan for recreation and community use) is convenient to the center of the populated area of Chickaloon. The land has a variety of terrain, so trails can be located and designed to provide both challenging and less-challenging routes for users. When the trails are constructed the trails will be maintained by volunteers of the Chickaloon Trail Club.

**Funding Needed: TBD**

**7. Tie - Meadow Lakes Loop Multi-Use Trail**  
(CIP ID #75)

*Nominator: Meadow Lakes Community Council*

The project will design and construct a multi-use trail along the entire length of Meadow Lakes Loop and Meadow Lakes Road from the intersection of the Parks Highway to the intersection of Pittman Road. This trail connects to the Pittman Road, Church Road, and Parks Highway Master Circle trail system. These narrow paved roads have many blind curves making alternate means of transport extremely dangerous. A multi-use trail will greatly improve the safety of the users. The Meadow Lakes Comprehensive Plan supports the project.

**Funding Needed: TBD**

**7. Tie - Meadow Lakes Multi-Use Trails**  
(CIP ID #74)

*Nominator: Meadow Lakes Community Council*

The project will construct trails for use by equestrians, skiers and runners over 50 acres of the 120-acre Borough site adjacent to the 40 acres owned by the Meadow Lakes Community Council, Inc. The trails

can be used in conjunction with school programs and by the general public for a wide variety of purposes. Meadow Lakes Multi-Use trails connect to the Pittman Road, Church Road, and Parks Highway Master Circle trail system via the proposed Meadow Lakes community center. Currently there is a deficiency in recreational opportunities in Meadow Lakes which this project hopes to correct. The activities are supported in the Meadow Lakes Comprehensive Plan.

**Funding Needed: TBD**

## **Recreational Trails Needs List**

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### No Priority Order, Listed Alphabetically

#### **Crooked Lake Trailhead**

**(CIP ID #68)**

*Nominator: MSB Community Development*

Crooked Lake Trail is a regionally significant multi-use winter trail which currently has limited parking off of Papoose Twins Road. This project will construct a trailhead on Borough property at Crooked Lake during the upgrade of Papoose Twins Road. The project will provide trail access to the west Susitna basin. The trailhead is supported by the Borough Trails Plan.

**Funding Needed: \$300,000**

#### **Talkeetna Mail Trailhead Construction**

**(CIP ID #84)**

*Nominator: MSB Community Development*

This project will complete the construction of a trailhead on Hidden Hills Road for the multi-use, year-round Talkeetna Mail Trail. The project is supported by the Borough Trails Plan. Both visitors and local winter trail users will benefit from access to the north end of the trail system.

**Funding Needed: \$300,000**

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# Port MacKenzie

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## Priority Projects

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1. Dock Pile Protection (CIP ID #82)
2. Port MacKenzie Erosion Control (CIP ID #250)
3. Natural Gas Line to Port (CIP ID # 241)
4. Lu Young Lane Paving (CIP ID #4)
5. Port MacKenzie Material Handling Corridor (CIP ID #223)
6. Port MacKenzie Deep-Draft Dock Expansion (CIP ID #7)
7. Port MacKenzie South Access Road (CIP ID #6)
8. Port MacKenzie Emergency Management Center (CIP ID #249)
9. Port MacKenzie Heavy Industrial Fire Suppression Study (CIP ID #251)
10. Illumination of Port MacKenzie Road System (CIP ID #5)

## Project Descriptions

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### 1. Dock Pile Protection

(CIP ID #82)

*Nominator: MSB Port Director*

This project will install 50 pipe pile sleeves and 14 fender pile sleeves to protect the piles from completely losing the hot dipped galvanized coating. This will slow the deterioration of the piles due to scour from silt and ice impact as well as material loss due to corrosion. The initial zinc coatings on the deep-draft dock support and fender piles are mostly worn off as documented by PND engineers. Each pile sleeve repair will consist of two high density polyethylene half-sleeves, 30 feet in length, fastened with three sleeve clamps.

***Funding Needed: \$5 Million***

### 2. Port MacKenzie Erosion Control

(CIP ID #226)

*Nominator: MSB Port Director*

The project consists of erosion control, slope stabilization, and storm water management to reduce the erosion occurring on the bluff above the barge dock, from the base of the hill leading to the barge dock to the southwest corner of the original barge dock. The erosion to be addressed by this project is predominately near the top of the bluff above the southern portion of the original barge dock at Port MacKenzie and benching along the remainder with seeding and rip rap ditches.

***Funding Needed: \$10 Million***

### 3. Natural Gas Line to Port

(CIP ID #241)

*Nominator: MSB Administration*

This project envisions a public facility asset for natural gas distribution to consumers/residents, for export, and to support industries that produce value added products, generating electricity, an energy source for other energy intensive industries. Local residents will benefit, and the Port District is a prime location for this type of facility. Land for development is available for this enterprise, as well as other industries which will benefit from its close proximity.

**Funding Needed: \$20 Million**

### 4. Lu Young Lane Paving

(CIP ID #4)

*Nominator: MSB Planning*

Lu Young Lane has been widened and prepared for paving with a surface layer of D1 crushed gravel. The project will benefit the Port further increasing the efficiency of the Port operations and safety in the Port District. This road will experience heavy vehicle traffic in the future with two way traffic involving tractors with trailers hauling cement, coal, sand and gravel, logs, wood chips and fuel.

**Funding Needed: \$1.5 Million**

### 5. Port MacKenzie Material Handling Corridor

(CIP ID #223)

*Nominator: MSB Planning*

A bulk material transportation connection is required between the area of the Port MacKenzie Rail Loop and the barge and deep-draft docks. Infrastructure will include rail car un-loaders at two locations on the rail loop, conveyors to stockpile, storage facilities, re-claimers, a conveyor from the rail loop to the deep-draft dock. Additional dolphins would also be added to the deep-draft dock to support the additional weight of an articulated sling loader. Total cost of \$40 million is estimated based on two large volume commodities begin exported via the rail and docks. The borough and interior Alaskans will benefit from an efficient transportation system between the rail loop and the docks. An anticipated 20 jobs will be created in the Port District and another 400 will be created in the borough and the rest of the state by the associated natural resource processing and transportation activities.

**Funding Needed: \$40 Million**

### 6. Port MacKenzie Deep-Draft Dock Expansion

(CIP ID #7)

*Nominator: MSB Port Director*

A deep-draft dock expansion will allow two Panamax size vessels to dock at Port MacKenzie concurrently, enabling the Port to import and export. The addition of a second conveyor will increase the capability of simultaneously exporting two commodities such as coal, limestone, woodchips, sand, gravel, logs and fuel. A new dock will also allow for a circular trucking pattern for the efficient and safe off-loading of roll-on, roll-off cargo. The current dock should be fully utilized from April through December within five years after the rail extension is completed. The ability to berth two ships at once will allow the Borough to double its exports from 3 million tons to 6 million tons per year. This will create hundreds of jobs in the interior at mines, for the railroad, and at the Port itself. The Port Master Plan calls for this additional dock. The estimated time frame for this project is eight to ten years.

**Funding Needed: \$85 Million**

## 7. Port MacKenzie South Access Road

(CIP ID #6)

*Nominator: MSB Planning*

This road project includes a reconnaissance study, design, ROW acquisition, and construction of a southern access route to the southern Port District boundary to provide access. The project will benefit property owners south of the Port District by giving them road access to and from their property. The Port Master Plan and Long Range Transportation Plan support the project which is estimated to take ten years to complete.

**Funding Needed: \$4.5 Million**

## 8. Port MacKenzie Emergency Management Center

(CIP ID #249)

*Nominator: MSB Emergency Services Directors*

The project consists of constructing an industrial emergency management center near MP 18 on Point MacKenzie Road to provide services for the commercial and industrial businesses desiring to locate in the Port. Workers including seamen, longshoremen, and railroad workers will also benefit.

**Funding Needed: \$30 Million**

## 9. Port MacKenzie Heavy Industrial Fire Suppression Study

(CIP ID #251)

*Nominator: MSB Emergency Services*

The project consists of evaluating the fire protection and suppression needs anticipated for the Port MacKenzie District; a light commercial/industrial district that may contain petrochemical plant(s) and storage facilities that may be located within the Port MacKenzie District. The evaluation will be broad enough to address the fire protection and suppression needs for all petrochemical related activities anticipated within the port district and the infrastructure required to support the fire protection services. This evaluation will determine the required level of fire protection and the costs of the fire protection services (and related infrastructure), and determine the benefits of the fire protection services over time; a cost-benefit analysis will be developed to determine the economic feasibility of the Borough providing the services, as opposed to each commercial enterprise operating their own respective fire protection within the Port MacKenzie District; or, a combination of both. The evaluation will advise the Borough of light commercial/industrial with petrochemical plant(s) and storage facilities industry standards, and best practices for fire protection services, and will advise on infrastructure requirements such as water supply systems, road infrastructure, utilities, etc. The study can be completed in one year.

**Funding Needed: \$150,000**

## 10. Illumination of Port MacKenzie Road System

(CIP ID #5)

*Nominator: MSB Planning*

Downward facing, LED street lights are needed at road and driveway intersections in the Port District to improve safety. The project will benefit the entire Borough accessing Port MacKenzie by improving transportation safety. Once funding is received, the project can be completed in one year.

**Funding Needed: \$50,000**

# Port Needs List

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## No Priority Order, Listed Alphabetically

### Lake Lorraine Loop Road

(CIP ID #1)

*Nominator: MSB Planning*

The project consists of design, ROW dedication, and construction of a 2.3 mile road around Lake Lorraine to access future lease lots in the Port Commercial District. Availability of additional lease land in the Port Commercial District will benefit all residents of the Matanuska-Susitna Borough. Future lease lot development will support the creation of new jobs. This project is included in the Port Master Plan and Long Range Transportation Plan. Once funding is received, it will take two years to complete the project.

**Funding Needed: \$4.6 Million**

### Port MacKenzie Frontage Roads

(CIP ID #2)

*Nominator: MSB Planning*

Frontage roads are needed on both sides of Point MacKenzie Road, the primary transportation route in Port MacKenzie. Frontage roads will allow Port traffic to access lease lots, reduce congestion, and allow unimpeded access for Port traffic. The project will benefit the entire Mat-Su Borough by increasing the efficiency of the Port Operations and safety in the Port District. This project is included in the Port Master Plan and Long Range Transportation Plan. Once funding is received, it will take three years to complete the project: one year for design, and two years for construction.

**Funding Needed: \$9 Million**

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# Water Resources

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## Priority Projects

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1. MSB Septage and Leachate Facility – Phase 1 (CIP #24)
2. Fish Protection (CIP #234)
3. Stormwater Management Plan Implementation (CIP #159)
4. Talkeetna Water and Sewer System Facilities Upgrade (CIP #278)
5. Storm Drainage System Mapping (CIP #172)
6. Big Lake Jolly Creek Drainage Improvements (CIP #295)
7. Vine Creek Drainage Improvements (CIP #296)
8. Meadow Lakes Quantitative Analysis of Current Well & Septic Conditions (CIP #157)
9. Talkeetna Dike and Revetment (CIP #276)
10. Port MacKenzie Hydrology Study (CIP #166)

## Project Descriptions

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### **1. MSB Septage and Leachate Facility – Phase 1** (CIP ID #24)

*Nominators: MSB Public Works*

The Borough wishes to begin the process to construct a septage and leachate treatment facility to address the disposal of septage created by the 93% of the Borough residents who rely on septic tanks for wastewater disposal as well as leachate disposal from the Borough landfill. Currently all septage and leachate is taken into the Municipality of Anchorage, where it receives minimal treatment before discharging to Cook Inlet. Phase I of the project includes the acquisition of land required to support septage and leachate disposal and engineering design. Phase 2 is for construction of a new treatment facility. The Wastewater & Septage Advisory Board has established criteria and a process for site selection. Funding for Phase 1 – Septage and Leachate Treatment Facility land acquisition and engineering design is estimated at \$2.2 Million. Phase 2 construction is approximated to be \$17.4 Million. The project is supported by the MSB Septage Treatment and Disposal Study (HDR, 2008) and will benefit the vast majority of Borough residents. The timeframe for the Septage and Leachate Treatment Facility (dependent upon funding) is 2020 for completion and beginning operations. This request will fund the project.

***Funding Needed: \$20.5 Million***

## 2. Fish Protection

(CIP ID #2)

*Nominator: MSB Planning*

Salmon populations are declining in the Mat-Su as evidenced by the state designated stocks of concern, frequent sport fishing closures and associated business losses. At this point, the causes for the declines are not understood and this project is designed to address multiple fisheries issues. Included in this project are actions to research fishery movements in Cook Inlet, habitat protection activities and fish passage restoration projects. Research activities would study the movements of the mixed salmon species that live in Cook Inlet waters with the outcomes designed to improve fisheries management.

***Funding Needed: \$1Million***

## 3. Stormwater Management Plan Implementation

(CIP ID #159)

*Nominators: MSB Planning*

The Borough is developing a Stormwater Management Plan to provide guidance for managing stormwater in the Borough. The plan outlines specific steps for community engagement, site runoff controls, public sector operations, and pollution prevention that will meet requirements for a Municipal Separate Storm Sewer System (MS4) Permit. Based on the 2010 census, the Alaska Department of Environmental Conservation is expected to apply the MS4 designation to an urbanized area within the Borough. Implementing the plan and meeting the requirements of the MS4 permit will require funding for public works operations, community outreach, water quality monitoring, stormwater and watershed analysis, and coordination of a watershed team over the five year period of the permit. All Borough residents who rely on ground water, surface water, and well water for their drinking supplies will benefit. Keeping the Borough's water clean by effectively managing our stormwater is essential to all residents and communities. The time period for compliance with a MS4 permit is five years which is expected to start in late 2013. See companion project, CIP ID #172 Storm Drainage System Mapping Project.

***Funding Needed: \$187,000***

## 4. Talkeetna Water and Sewer System Facilities Upgrade

(CIP ID #278)

*Nominator: Talkeetna Community Council*

In 2014, there was an independent analysis of the Talkeetna Water and Sewer System funded by a \$100,000 grant from the State of Alaska revenue sharing. The study called for improvements including aeration equipment, electrical improvements at lagoon cell two, lift station flow meters, and emergency power generation for fire hydrants and sewer operations. Making these improvements will eliminate sewer system discharges, which have the potential to violate government environmental regulations, into the Talkeetna River, an anadromous habitat. The Talkeetna community will benefit from a functional and efficient water and sewer system. A high portion of the Borough tourist bed tax funds are generated in Talkeetna. Residents and tourists and related infrastructure depend on sound utilities.

***Funding Needed: \$900,000***

## 5. Storm Drainage System Mapping

(CIP ID #172)

*Nominator: MSB Public Works*

The pilot project will develop a database scheme and a GIS-based map of a portion of the storm drainage system within the urbanized area of the Borough. The attribute data (for example, pipe material and diameter) will be managed in an integrated asset management database that can be used to schedule and track maintenance activities. The mapping is needed for compliance with an anticipated

stormwater Municipal Separate Storm Sewer System (MS4) permit (see CIP ID# 159). The asset management capabilities will enable efficient future mapping efforts and aid storm drain staff in the Borough's operations and maintenance, planning, and project management and engineering divisions in drainage system expansion, maintenance, and upgrades. See companion project CIP ID#173.

**Funding Needed: \$100,000**

## **6. Big Lake Jolly Creek Drainage Improvements**

(CIP ID #295)

*Road Class: Major Collector*

*Nominators: MSB Capital Projects*

Flooding and drainage issues exist throughout the Big Lake area. In the center of town, there are historical natural drainages, which have been impacted by decades of development. These drainages have several areas where the flow of stormwater is constricted or adjacent wetlands have been filled, eliminating the natural outflow for water. This increases the chances of flooding due to backwater effects. Several instances of flooding have led to property damage, frequent maintenance and emergency response expenditures, most notably in the residential and commercial areas along Hollywood Road near Chisana Woods Subdivision and areas to the south and west. There have been hydraulic and hydraulical analysis reports performed in the area. The project will result in less risk of flooding and icing on MSB and State of Alaska roads, reducing the risk of vehicle accidents and personal injury.

**Funding Needed: \$1.4 Million**

## **7. Vine Creek Drainage Improvements**

(CIP ID #296)

*Nominator: MSB Capital Projects*

The project will design and construct a paved pedestrian and bike trail on Bogard, a major arterial transportation route in the Borough. This project begins at Trunk Road and proceeds west to the Seldon/Bogard intersection. A highway separated trail will provide safe access along this heavily-travelled route. Acreage or right-of-way is required along the three-mile route.

**Funding Needed: \$3 Million**

## **8. Meadow Lakes Quantitative Analysis of Current Well & Septic Conditions**

(CIP ID #157)

*Nominator: Meadow Lakes Community Council*

This project will be a quantitative analysis of current data to create a predictive model of well water availability and vulnerability. Sources in the hydrology field recommend this over a hydrology study which would be expensive and lengthy and in all likelihood would not produce new information. A quantitative analysis of current data will be less expensive, yield results sooner, and consolidate current well and septic information. There is concern about the impact of development on local wells in the Meadow Lakes Area.

**Funding Needed: TBD**

## **9. Talkeetna Dike and Revetment**

(CIP ID #276)

*Nominator: Talkeetna Community Council*

The Talkeetna Dike & Revetment system is a flood asset structure, which protects the Talkeetna town site, homes and infrastructure. The structures are located on the southern bank at the mouth of the Talkeetna River, west of the Alaska Railroad trestle bridge. They serve to train flood waters toward the Susitna River without damaging the historic town site of Talkeetna. MSB refurbishment assistance is

needed following the 2006 and 2012 high water/flood events. Regular maintenance is underfunded and in default. The safety of Talkeetna residents will be improved if the flood system is properly maintained by the MSB. The historic district and regional commerce will be protected. The project will also protect the Alaska Railroad abutment, part of a vital transportation link in the State.

**Funding Needed: \$2.2 Million**

#### **10. Port MacKenzie Hydrology Study**

**(CIP ID #166)**

*Nominators: MSB Planning*

The Study will measure and model ground water, surface water, and storm water elevations and flow directions. This information will help to minimize erosion, liquefaction, flooding and other hazards to Port Development and Operations. Port Leasee will have more site specific information which will help decrease development costs and long-term maintenance costs.

**Funding Needed: \$1.75 Million**

## **Water Resources Needs List**

#### **Talkeetna Water Distribution Point**

**(CIP ID #277)**

*Nominator: Talkeetna Community Council*

Talkeetna currently lacks a public water distribution point for residents and visitors without access to running water. In the past, two former Laundromats provided a source for hauling water. Currently both have been replaced by other businesses and the town site has no public water source. Approximately 30% of residents manually haul water buckets, etc. Potential locations include the Denali Arts Council Community hanger or Northern Susitna Institute as locations. An approved public watering point will improve public health and safety as well as increased sanitation.

**Funding Needed: TBD**

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# MSB School District

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## **Charter School Safety and Security Improvements**

**\$1.7 Million**

*District Wide*

This project is to make school safety and security improvements to charter schools across the District to bring them in line with systems currently available in other District facilities.

## **Seismic Repairs 10 Facilities**

**\$18.9 Million**

*District Wide*

Repair seismic engineering shortfalls in nine schools and the Administration Building.

## **Standby Generator Replacement**

**\$7.1 Million**

*District Wide*

Phase II project to replace standby generators. The existing generators are severely undersized, cannot meet current code needs, and have passed their lifecycles.

## **Water System Replacement**

**\$2.9 Million**

*Elementary Schools*

This project is to design and install a replacement water supply system for the antiquated water systems at Butte Elementary, Snowshoe Elementary and Big Lake Elementary.

## **Mechanical Renovation**

**\$ 3.7 Million**

*Palmer High School*

This project will renovate various mechanical systems (HVAC and water) at PHS.

## **Safety/Security Support Infrastructure Upgrade**

**\$750,000**

*District Wide*

Provide reliable and sustainable solutions for environmental control and emergency power for all areas supporting safety and security communications within numerous schools across the District.

## **ADA Facilities Upgrade**

**\$100,000**

*ADA Compliance*

This funding is intended to provide funding for various items related to ADA improvements District-wide including installing new controls, curbing and sidewalk improvements, ramps, chair lifts, etc.

## **Parking Expansion**

**\$325,000**

*Palmer High School*

This project includes installing approaches, both drive lanes and 66 additional parking spaces at PHS over approximately 24,700 square feet.

## **Refresh Classroom Technology**

**\$350,000**

*District Wide*

The project will refresh classroom technology throughout the district, including teacher and student devices and interactive displays.

<b>Safety Upgrades Phase 2</b>	<b>\$80,000</b>
<i>District Wide</i>	
Make improvements to existing security infrastructure by installing additional monitoring infrastructure in schools across the District.	
<b>Lunch Room Table Replacement</b>	<b>\$320,000</b>
<i>District Wide</i>	
A total of 147 tables will be repaired or replaced throughout the district; 58 tables will be and 89 will be replaced with brand new tables.	
<b>Stairwell Upgrade</b>	<b>\$60,000</b>
<i>Colony Middle School</i>	
Install railings in the center of each stairwell to assist students in the event of a fall.	
<b>Parking Lot Refresh</b>	<b>\$200,000</b>
<i>District Wide</i>	
This project includes crack sealing, seal coating, and striping for parking lots across the District.	
<b>Student Desk and Furniture Refresh</b>	<b>\$350,000</b>
<i>District Wide</i>	
Refresh student desk and furniture in schools across the District.	
<b>Exterior Paint and Curb Appeal</b>	<b>\$150,000</b>
<i>District Wide</i>	
This project is to repaint and refresh exterior fixtures and landscaping at schools across the District.	
<b>Energy Upgrades – Phase 2</b>	<b>\$2.3 Million</b>
<i>District Wide</i>	
This project includes energy use improvements throughout the District by replacing outdated and inefficient systems with high efficiency sustainable systems.	
<b>Carpet and Flooring Refresh</b>	<b>\$180,000</b>
<i>District Wide</i>	
This project would refresh carpet and flooring at various schools across the District.	
<b>Recycling Initiative</b>	<b>\$500,000</b>
<i>District Wide</i>	
The Student Advisory Board designed this initiative. The project would provide the capital to procure items needed to expand the District's recycling program: \$200,000 for two small bins in each classroom and two large bins in each location; \$63,000 for an 8x10 shed at 30 locations; \$25,000 to move the sheds; \$10,000 in site preparation costs; \$60,000 for other supplies; and \$100,000 contingency.	
<b>Theater Renovation</b>	<b>\$50,000</b>
<i>Colony High School</i>	
The theater renovation will provide the school with flex learning space. Currently the theater is used for 1-2 periods per day. CHS would like to augment use of the theater and offer a class in this space during all 7 periods.	

<b>School Energy Upgrades</b>	<b>\$400,000</b>
<i>Palmer Junior Middle</i>	
This project would replace windows throughout PJMS improving energy efficiency and replace old windows in one of the District's older facilities.	
<b>Gymnasium Lighting Upgrade</b>	<b>\$150,000</b>
<i>Colony Middle School</i>	
Provide energy savings and code appropriate light levels by upgrading the high use outdated lights in the gymnasium.	
<b>Playground Equipment Renovation</b>	<b>\$50,000</b>
<i>Glacier View School</i>	
This would update the current playground equipment to meet the safety standards.	
<b>New Vehicles</b>	<b>\$120,000</b>
<i>District Wide</i>	
Purchase 4 new vans to replace older maintenance vans.	
<b>Replace Heat Exchangers</b>	<b>\$350,000</b>
<i>Colony Middle School</i>	
This project includes installing heat exchangers and eliminating the need for glycol to the new boiler so the system operates as designed.	
<b>Parking Expansion</b>	<b>\$175,000</b>
<i>Snowshoe Elementary School</i>	
Provide for additional parking to avoid parents parking in fire lanes and at Station 6-6.	
<b>New Lockers</b>	<b>\$280,000</b>
<i>Palmer High School</i>	
Replace lockers throughout the school.	
<b>New Elevator</b>	<b>\$89,000</b>
<i>Palmer High School</i>	
Replace the elevator which requires maintenance often and costly repairs.	
<b>Home Economics Improvements</b>	<b>\$90,000</b>
<i>Palmer High School</i>	
Renovate existing home economics space.	
<b>Tennis Court Upgrade</b>	<b>\$150,000</b>
<i>Colony High School</i>	
Upgrades to two tennis courts and procure a set of bleachers.	
<b>Lighting Upgrade</b>	<b>\$100,000</b>
<i>Colony Middle School</i>	
This project would upgrade the building to LED lighting.	

**iPad Refresh**

**\$180,000**

*Cottonwood Creek Elementary*

Refresh iPad carts at Cottonwood Creek Elementary.

**Two Laptop Mobile Labs**

**\$79,000**

*Butte Elementary School*

This would replace outdated/non-working laptops which are used for testing, projects and teaching computer skills.

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