



Alaska Department of Transportation & Public Facilities

Department Overview

Ryan Anderson, P.E., Commissioner

Lance Mearig, P.E., Southcoast Region

Joe Kemp, P.E., Northern Region

Wolfgang Junge, P.E. Central Region

February 3, 2022

Our mission is to ***Keep Alaska Moving*** through service and infrastructure.

DOT&PF Regions

Geographically Diverse

High Seismic Activity

6 Distinct Climate Zones

**Widespread and Varied
Population Areas**

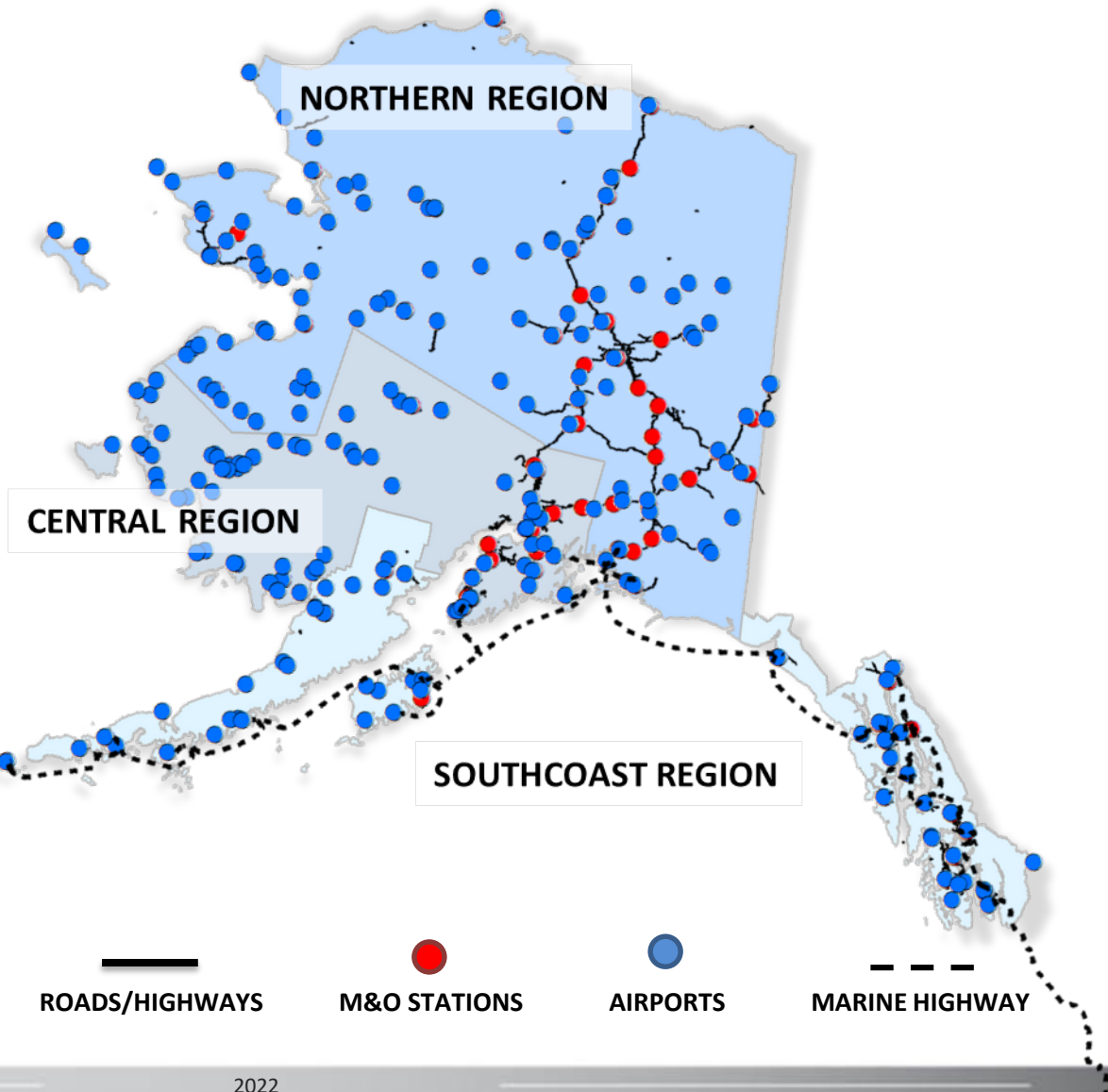
Working with Rural Communities

Importance of Rural Airports

Multi-modal Transportation

Ice Roads

231 Tribes and Cultural Groups



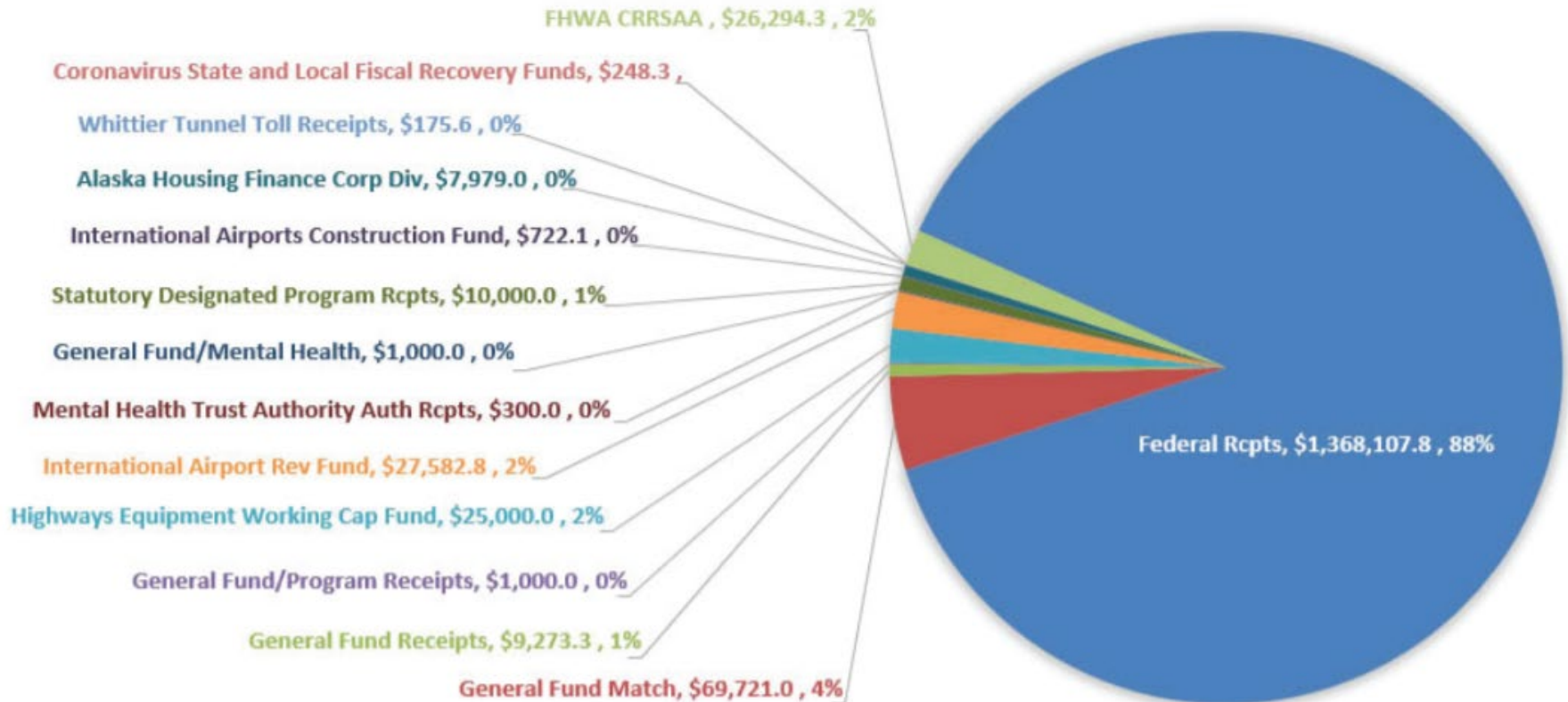
Statewide Capital Program

FY2022 CAPITAL BUDGET

BY FUND SOURCE

\$1,547,404.3

Numbers displayed in thousands



Challenges

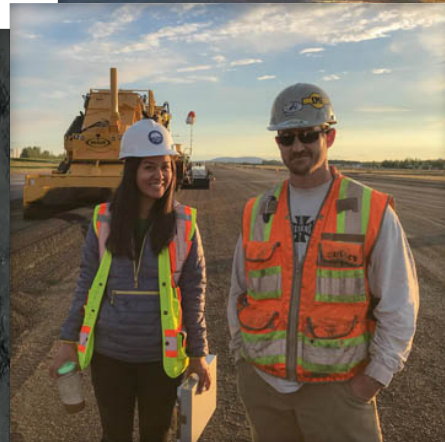
Limited Workforce

**Stressed Supply Chain and
Increasing Costs**

**Competing Nationally for
Discretionary Grants/Match**

**Increasing Maintenance
Costs with Expansion**

**May be solved by
INNOVATION**



Alaska DOT&PF Infrastructure

- 5,638 center line miles / 11,756 lane miles of roads / highways
- 74 DOT&PF staffed Maintenance Stations 237 State Airports
- 2 International Airports
- 9 Active Ferries, 1 in long-term layup
- 33 Ports of Call
- 16 Harbors
- 839 DOT&PF owned bridges
- 3 DOT&PF owned tunnels
- 7,371 pieces of state equipment & vehicles distributed throughout all executive branch departments, Legislative Affairs, the Court System
- 839 Public Facilities maintained, inclusive of 731 DOT&PF Owned Facilities
- 9 Weigh Stations
- 2.5 mile Anton Anderson Memorial Tunnel
- Approx. \$12.6B in transportation asset infrastructure



Weather: Southcoast Region



- \$475.0 in additional overtime and commodities usage during December 2021/January 2022 period in comparison to the same timeframe in the prior fiscal year
- Increased road closures impacting the traveling public and safety of crew
- Diverted and canceled flights due to icy conditions on airport surfaces
- Existing drainage infrastructure such as ditches and culverts are undersized to handle the volumes of water created by high intensity “atmospheric river” rainfall events.

SOUTHCOAST REGION MAINTENANCE DISTRICTS

SOUTHWEST M&O MAINTENANCE STATIONS



SOUTHEAST M&O MAINTENANCE STATIONS



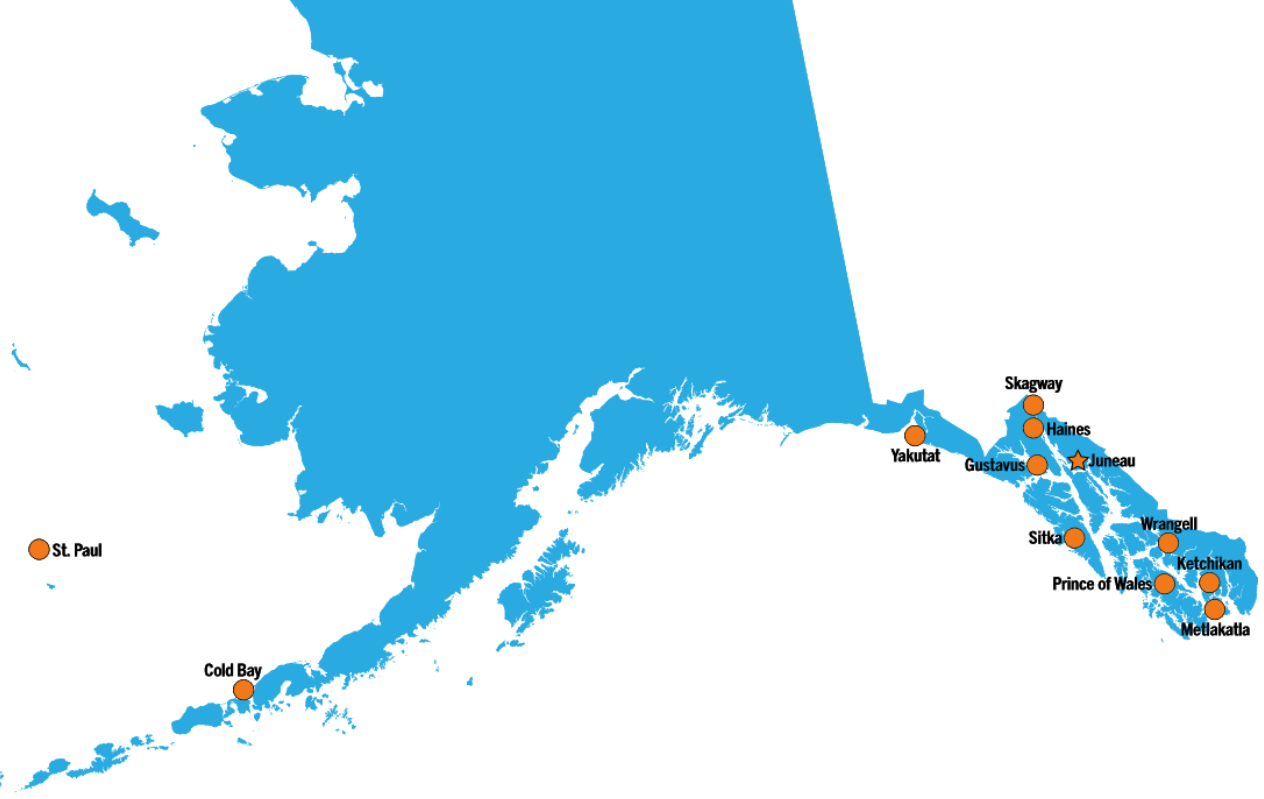
Southwest District

Southeast District

Highway Lane Miles	430	1,429.5
Airports	34	10
Operating Hours	Variable	Variable
Operating Days	Variable	Variable
Operators per Station per Shift	1-3	2-7
Average Age of Equipment (Years)	12	12
Maintenance Stations	9	11

Challenges: Staffing, difficult terrain, storm response, logistical challenges and cost, supply costs, erosion, permafrost thaw.
 Staffing, difficult terrain, storm response, logistical challenges and cost, supply costs, erosion, permafrost thaw.

SOUTHCOAST REGION PROJECTS STARTING IN OR CONTINUING INTO 2022



- COLD BAY: AIRPORT CHEMICAL SRE BUILDING
- GUSTAVUS: AIRPORT GATE IMPROVEMENTS
- HAINES: HIGHWAY RECONSTRUCTION PHASE 2, MP 12.2-20.0
- JUNEAU: AUKE BAY FERRY TERMINAL BUILDING IMPROVEMENTS
- JUNEAU: DOUGLAS HIGHWAY RESURFACE AND SIDEWALK REPAIRS, STAGE 2
- JUNEAU: DOWNTOWN PREVENTATIVE MAINTENANCE PAVING, TRAM TO ROCK DUMP
- JUNEAU: EGAN/YANDUKIN INTERSECTION HSIP IMPROVEMENTS
- JUNEAU: GLACIER HIGHWAY IMPROVEMENTS (LEMON CREEK)
- JUNEAU: MENDENHALL LOOP ROAD: EGAN DRIVE TO STEPHEN RICHARDS
- JUNEAU: SOUTH DOUGLAS RETAINING WALL (NON-NHS SLOPE STABILIZATION)
- KETCHIKAN: FERRY TERMINAL IMPROVEMENTS, BERTH 3
- KETCHIKAN: GRAVINA FERRY LAYUP AND FREIGHT FACILITIES
- KETCHIKAN: HERRING COVE BRIDGE IMPROVEMENT, CMGC
- KETCHIKAN: KETCHIKAN TO SHELTER COVE ROAD, STAGE 3
- KETCHIKAN: REVILLA/GRAVINA NEW AND REFURBISH FERRY BERTHS AND UPLAND IMPROVEMENTS
- KETCHIKAN: STEDMAN AND DEERMOUNT INTERSECTION AND SAFETY IMPROVEMENTS
- KETCHIKAN: TONGASS AVENUE IMPROVEMENTS
- KETCHIKAN: WATER STREET TRESTLE NO. 1 BRIDGE REPLACEMENT
- METLAKATLA: SEAPLANE FACILITY REPLACEMENT
- PRINCE OF WALES: HOLLIS HIGHWAY GUARDRAIL SAFETY IMPROVEMENTS
- SITKA: HALIBUT POINT ROAD AND PETERSON AVENUE INTERSECTION SAFETY IMPROVEMENTS
- SITKA: KATLIAN BAY ROAD
- SITKA: SAWMILL CREEK RESURFACING AND PEDESTRIAN IMPROVEMENTS
- SKAGWAY: STATE STREET PAVEMENT REHAB
- ST PAUL: AIRPORT VISUAL AID REPLACEMENT
- WRANGELL: ZIMOVIA HIGHWAY ROCKFALL
- YAKUTAT: AIRPORT VISUAL AID BEACON

Ketchikan Herring Cove Bridge Replacement

- Work begins in 2022, scheduled completion July 2023
- Project award: \$15.4 million
- Replace the Herring Cove Bridge with a new, wider bridge. Work includes installing sidewalks, stone armoring around the bridge, as well as intersection improvements and utility work between Wood and Powerhouse Roads.



Sitka Sawmill Creek Road Resurfacing & Pedestrian Improvements

- Work begins and project completion in 2022
- Project estimate: Between \$5 and 10 million
- The project will widen sidewalks, install bike lanes, replace storm drain system, resurface the entire project length, and improve safety at in the school zone.



AMHS Hubbard Crew Quarters

- Estimated return to service: 10/01/22
- Construction Cost Estimate: ~\$15 million
- Scope of Work: Sleeping quarters for up to 24 people including all ancillary work.



Rendering of Alaska Class Ferry MV Hubbard

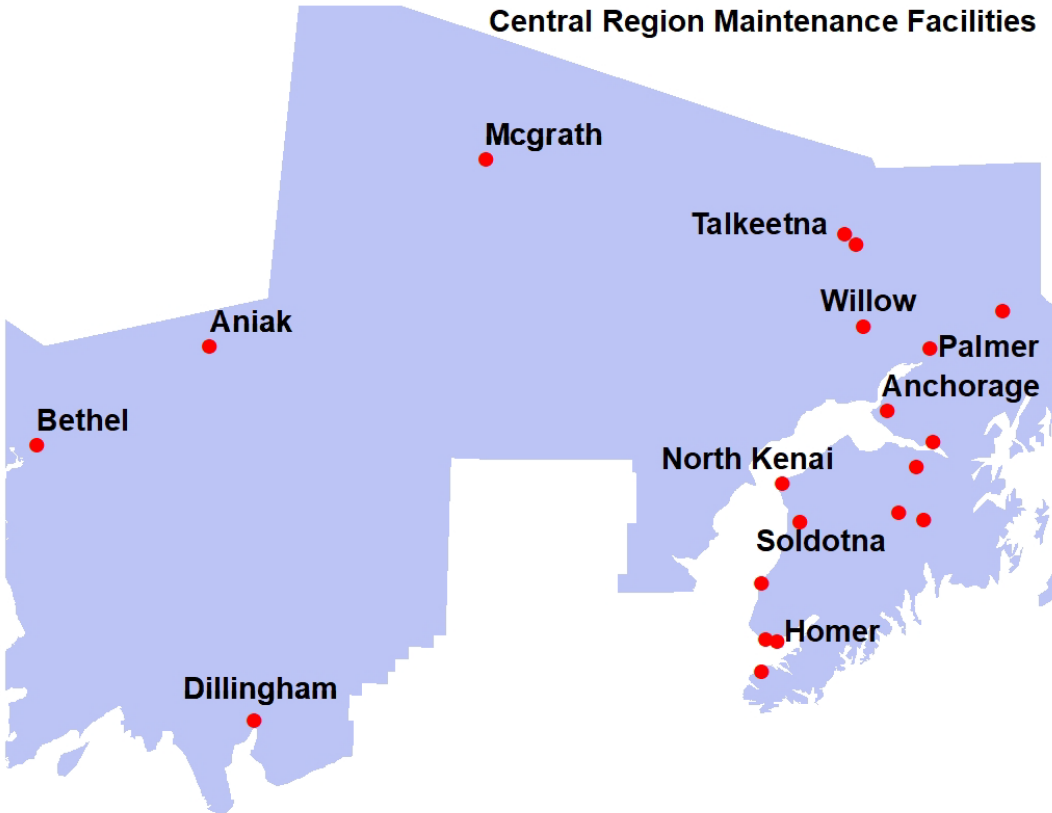
Skagway State Street

- Work begins in 2022 and project completion in 2024
- Project estimate: Between \$10 and \$20 million
- The project will resurface the roadway, replace drainage, replace curb and gutter, and upgrade curb ramps to meet ADA standards.



Central Region Maintenance & Operations

Central Region Maintenance Facilities



CR Highway Lane Miles	5,268
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FY21 Cost Per Lane Mile	\$7,100 (approx.)
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Staffed Maintenance Stations	21
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Operating Hours & Days: Variable	
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Operators per shift	Varies
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Operators per station: Varies	
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Average age of equipment	7 to 10 years
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Challenges: Aging equipment, staffing & recruitment, remoteness (western AK), reduced operating budget	
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Central Region Maintenance Accomplishments

EMERGENCY RESPONSE

Spring 2021 Hatcher Pass avalanches

Oct. 31, 2021 Sterling Highway mudslide

Prestaging large loaders at key locations:

- Palmer

- Anchorage

- Crown Point

- Girdwood (will be placed 2022)

INNOVATIONS

Road Swaps with MSB (KGB, Glenn 34-42)

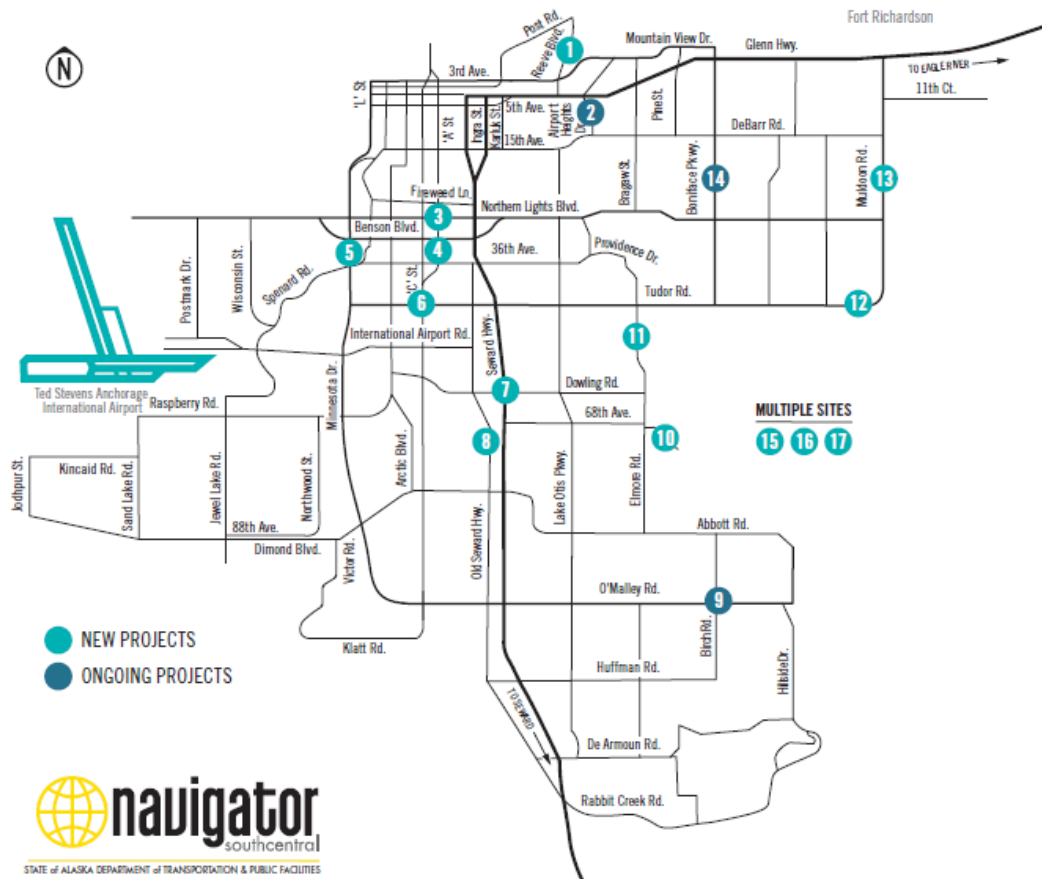
Birchwood Maintenance Station, additional
brine location

Anchorage energy project



Central Region Construction Anchorage

ANCHORAGE



- 1 AMATS: REEVE BOULEVARD, 5TH AVENUE to POST ROAD PAVEMENT PRESERVATION
- 2 AMATS: AIRPORT HEIGHTS, DEBARR ROAD to GLENN HIGHWAY PAVEMENT PRESERVATION
- 3 HSIP: A STREET, MIDTOWN COUPLET OVERHEAD SIGNAL INDICATION U/G
- 4 A STREET, NORTHERN LIGHTS BOULEVARD to 40TH AVENUE PAVEMENT PRESERVATION
- 5 MINNESOTA DRIVE, TUDOR ROAD to 15TH AVENUE, PAVEMENT PRESERVATION
- 6 HSIP: C STREET, TUDOR ROAD and DIMOND BOULEVARD INTERSECTIONS
- 7 DOWLING ROAD and SEWARD HIGHWAY INTERCHANGE RECONSTRUCTION
- 8 OLD SEWARD HIGHWAY, DIMOND BOULEVARD to DOWLING ROAD PAVEMENT PRESERVATION
- 9 AMATS: O'MALLEY ROAD RECONSTRUCTION, LIVINGSTON STREET to HILLSIDE DRIVE, PHASE II
- 10 CTF: BLM ROAD to CAMPBELL TRACT FACILITY ALTERNATE ENTRANCE ALIGNMENT (WFL)
- 11 ELMORE ROAD, ABBOTT ROAD to PROVIDENCE DRIVE, PAVEMENT PRESERVATION
- 12 AMATS: CHUGACH FOOTHILLS CONNECTOR, PHASE II
- 13 MULDOON ROAD, DEBARR ROAD to EAST 36TH AVENUE, PAVEMENT PRESERVATION
- 14 BONIFACE PARKWAY, TUDOR ROAD to JBER GATE, PAVEMENT PRESERVATION
- 15 ANCHORAGE AREA DRAINAGE IMPROVEMENTS FY 2019
- 16 AMATS: ANCHORAGE AREA PATHWAY and TRAIL PAVEMENT REPLACEMENT
- 17 HSIP: ANCHORAGE PEDESTRIAN LIGHTING



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

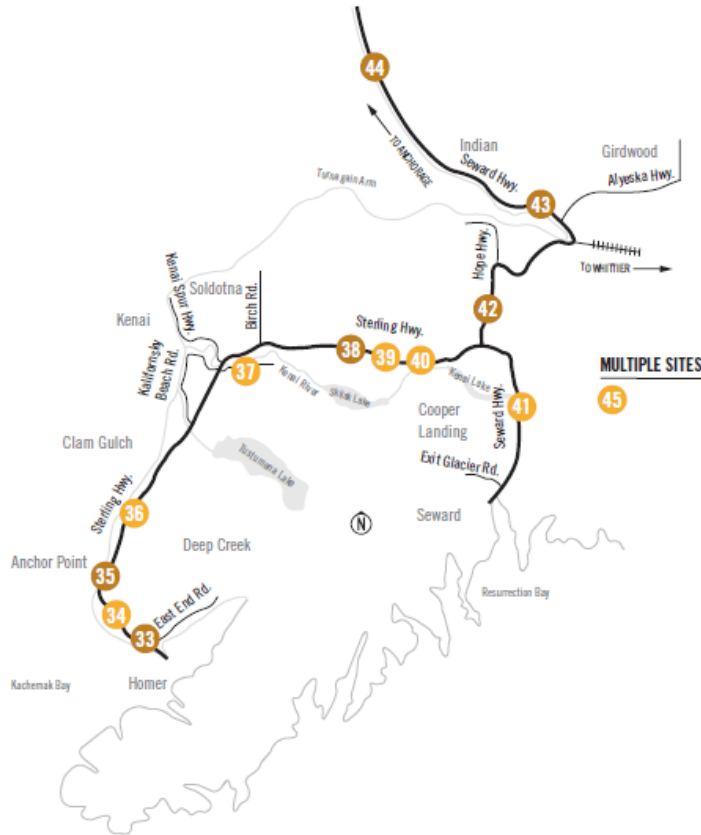


Central Region Construction Kenai Peninsula

KENAI PENINSULA



- NEW PROJECTS
- ONGOING PROJECTS



- 33** HOMER, EAST HILL ROAD PAVEMENT PRESERVATION
- 34** HOMER, WEST HILL ROAD PAVEMENT PRESERVATION
- 35** OLD STERLING HIGHWAY, ANCHOR RIVER BRIDGE REPLACEMENT
- 36** COHOE LOOP ROAD MP 0 to 9, PAVEMENT PRESERVATION
- 37** FUNNY RIVER ROAD PAVEMENT PRESERVATION
- 38** STERLING HIGHWAY MP 45 to 60, SUNRISE LAKE ROAD to SKILAK LAKE ROAD RECONSTRUCTION
- 39** STERLING HIGHWAY MP 45 to 60, SUNRISE LAKE ROAD to SKILAK LAKE ROAD RECONSTRUCTION, PIONEER ROAD PACKAGE (CM/GC)
- 40** STERLING HIGHWAY MP 45 to 60, SUNRISE LAKE ROAD to SKILAK LAKE ROAD RECONSTRUCTION, STAGE 3 and 4 GRADING and DRAINAGE, EARLY WORK PACKAGE (CM/GC)
- 41** SEWARD HIGHWAY MP 17 to 22.5 REHABILITATION
- 42** HSIP: SEWARD HIGHWAY PASSING LANES MP 37 to 52 and SEWARD HIGHWAY PAVEMENT PRESERVATION MP 36 to 48
- 43** SEWARD HIGHWAY, MP 75 to 90, INGRAM CREEK to ALYESKA HIGHWAY and BRIDGE REHABILITATION, PHASE II and PORTAGE CURVE MULTIMODAL CONNECTOR
- 44** HSIP: SEWARD HIGHWAY ROCKFALL MITIGATION
- 45** KENAI AREA REPAIRS – NOV 2018 EQ PR



STATE of ALASKA DEPARTMENT of TRANSPORTATION & PUBLIC FACILITIES

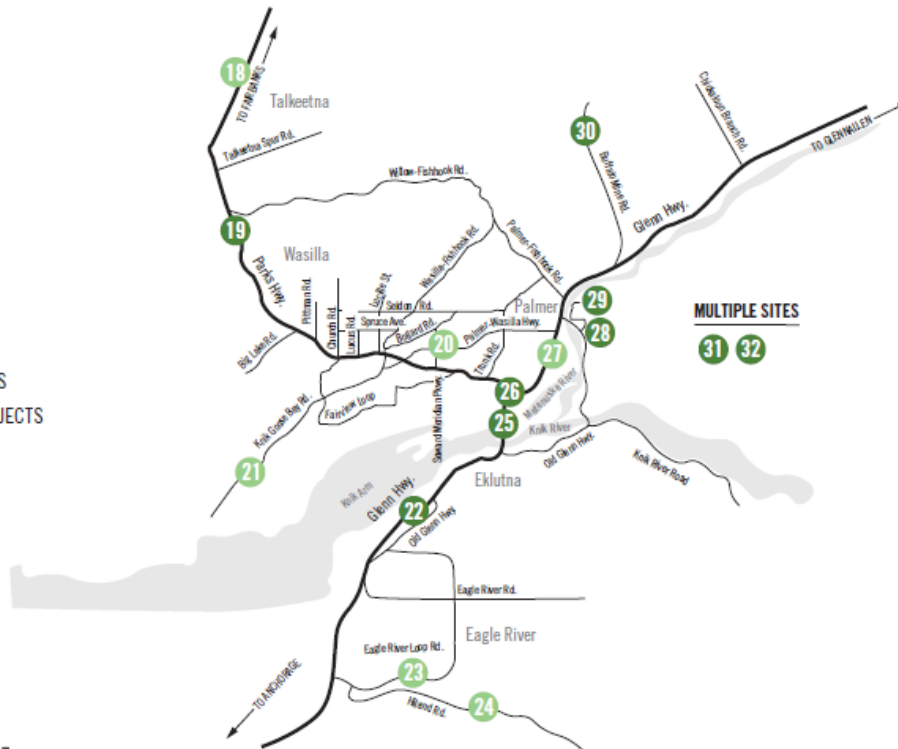


Central Region Construction Mat-Su Valley

MAT-SU VALLEY



- NEW PROJECTS
- ONGOING PROJECTS



- 18** PARKS HIGHWAY BRIDGE REPLACEMENTS: MONTANA CREEK, SHEEP CREEK, and GOOSE CREEK
- 19** PARKS HIGHWAY MP 48.8 to 52.3 RECONSTRUCTION
- 20** SEWARD MERIDIAN PARKWAY IMPROVEMENTS, PALMER-WASILLA HIGHWAY to SELDON ROAD, PHASE II
- 21** KNIK GOOSE BAY ROAD, FAIRVIEW LOOP to PALMER-WASILLA HIGHWAY, PHASE I
- 22** GLENN HIGHWAY at MIRROR LAKE – NOV 2018 EQ PR
- 23** EAGLE RIVER LOOP PEDESTRIAN UNDERCROSSING – NOV 2018 EQ PR
- 24** AMATS: HILAND ROAD MP 0 to 3.2, PAVEMENT PRESERVATION
- 25** HSIP: GLENN HIGHWAY MEDIAN BARRIER, MP 30 to 34
- 26** GLENN HIGHWAY and PARKS HIGHWAY INTERCHANGE REPAIRS – NOV 2018 EQ PR
- 27** GLENN HIGHWAY, PARKS HIGHWAY to SOUTH INNER SPRINGER LOOP, PHASE II
- 28** FEMA: CLARK-WOLVERINE ROAD and HUNTLEY ROAD – NOV 2018 EQ PR
- 29** CLARK-WOLVERINE ROAD 00031 – NOV 2018 EQ PR
- 30** BUFFALO MINE ROAD 00118 – NOV 2018 EQ PR
- 31** GLENN HIGHWAY MP 40 to 68 – NOV 2018 EQ PR
- 32** MAT-SU AREA REPAIRS – NOV 2018 EQ PR



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES



Seward Highway Safety Initiative

- **Construction: first phase 2024**
- **Seward & Sterling Wye Interchange**
- **Seward & Girdwood Interchange**
- **Reconstruct Seward Highway MP 98-118 to increase safety and remove the Alaska Safety Corridor designation.**



Weather: Central Region



- Sterling Hwy MP 50 mudslide - Two temporary hires made and the cost of event to date is approximately \$91.0, total costs estimated up to \$150.0
- Wind event over New Year's weekend in the Matanuska Susitna District. No additional hires made. Estimated cost for immediate repairs is \$40.0. Potential future repairs maybe be \$100.0.

Rural Airport Gravel Runway Projects

FY 2022

- Kongiganak Airport Improvements
- Mekoryuk Airport Rehabilitation
- Chefnak Airport
- Togiak Airport Resurfacing and Lighting Replacement
- Ekwok Airport and New Stuyahok Airport Resurfacing
- Crooked Creek Airport
- Nunapitchuk Airport Improvement
- Newtok Airport Relocation
- Kipnuk Airport Rehabilitation



Northern Region Maintenance & Operations

NR Hwy Lane Miles **8,434**

FY21 Cost Per Lane Mile **\$6,600 (approx.)**

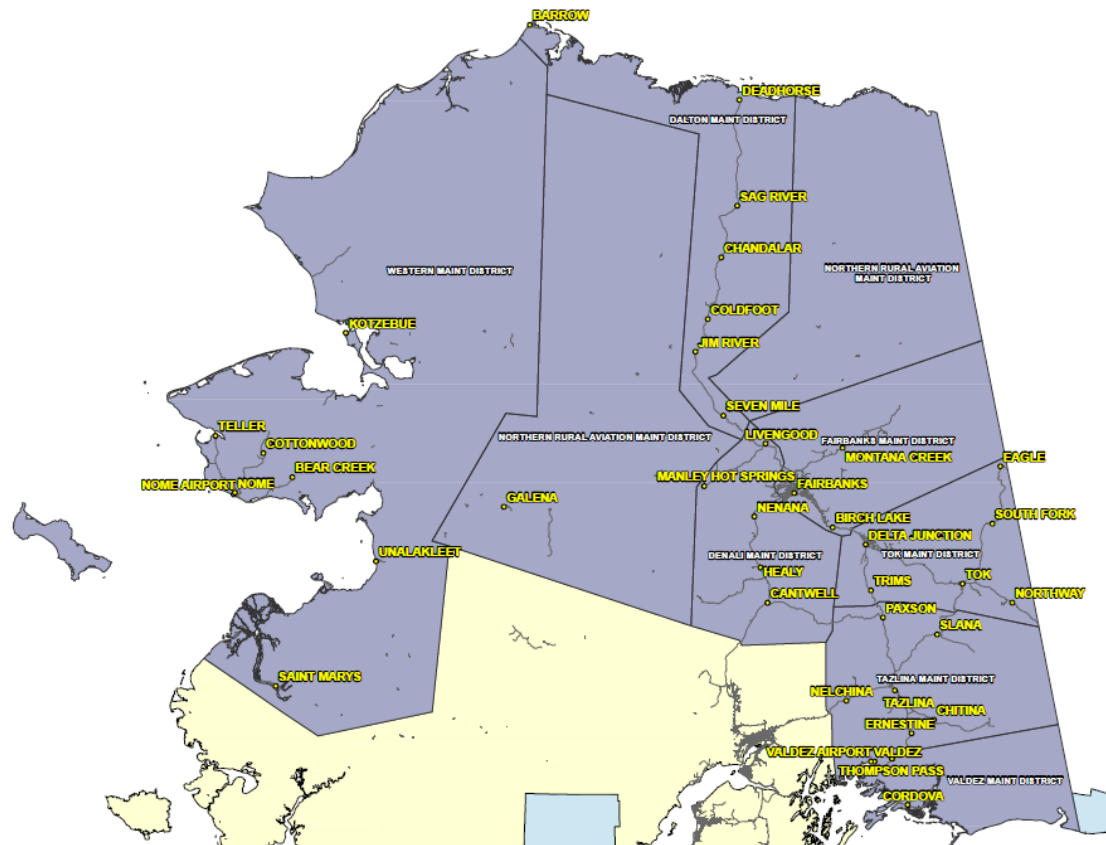
Staffed Maintenance Stations **35 + 2 seasonal**

Operating Hours & Days **Variable**

Operators per shift **Varies: 1 – 5 in all districts outside of Fairbanks**

Operators per station/Fairbanks **9**

Average age of equipment **7 to 14 years**



Northern Region Construction

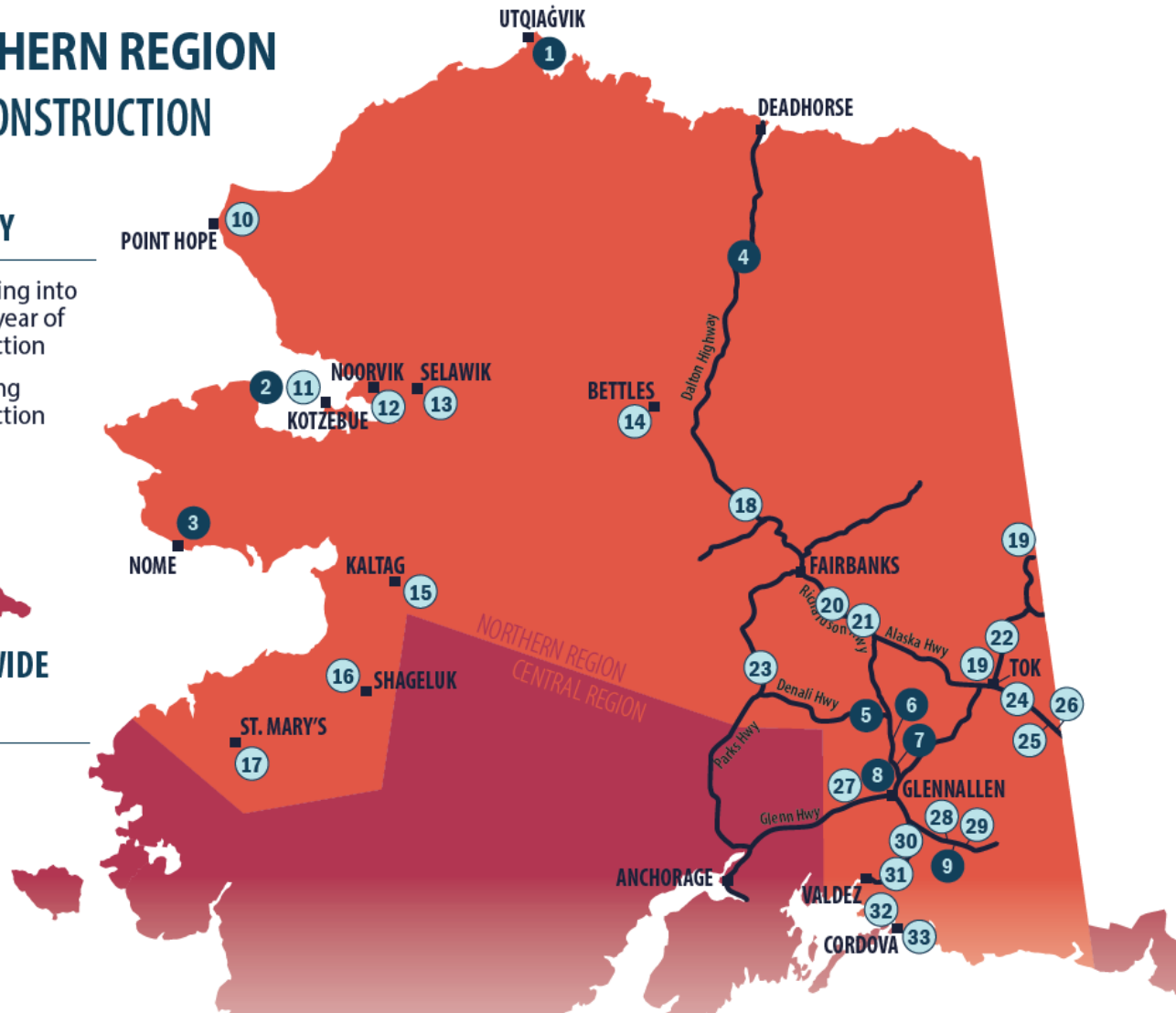
NORTHERN REGION 2022 CONSTRUCTION

COLOR KEY

- Continuing into second year of construction
- Beginning construction in 2022

REGION-WIDE PROJECTS

34



Northern Region Construction

FAIRBANKS AREA | 2022 CONSTRUCTION

CONTINUING IN 2022

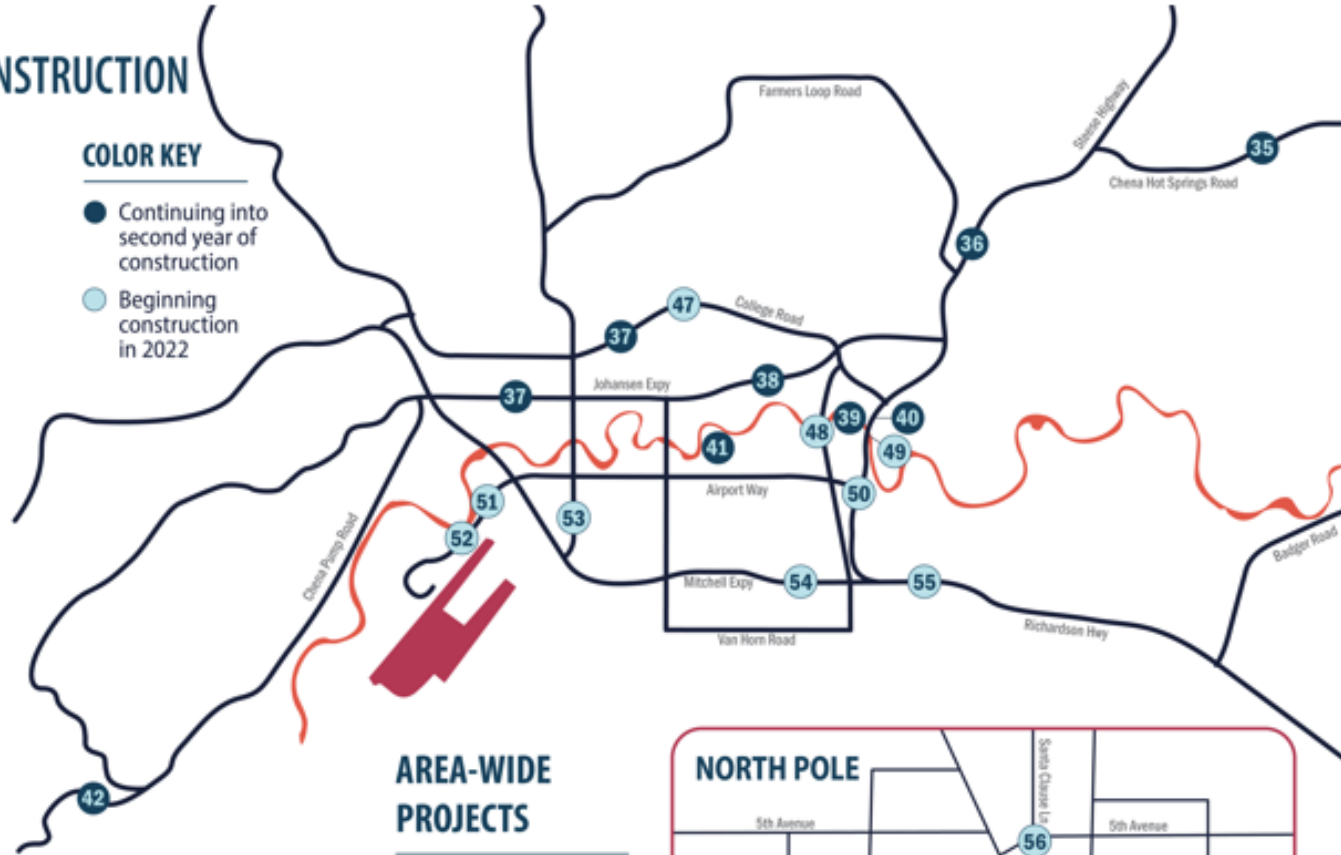
- 35 | Chena Hot Springs Road MP 0-6
- 36 | Steese Hwy MP 3.8 Culvert Replacement
- 37 | Fairbanks Area Signal Interconnect
- 38 | Fairbanks Area Concrete Barrier Upgrades
- 39 | Wendell Avenue Bridge Replacement
- 40 | 3rd Street Widening and Interconnect
- 41 | Growden Area Accessibility Improvements
- 42 | Rosie Creek Road Improvements
- 43 | FAST Intersection Improvements
- 44 | FAST Sidewalk Improvements
- 45 | FAST Sign Replacement Stage III
- 46 | Northern Region LED Lighting

BEGINNING IN 2022

- 47 | College Road Bus Pullouts
- 48 | Cushman Street Bridge Rehabilitation
- 49 | Steese Expy Chena River Bridge Redeck
- 50 | Airport/Steese Intersection Reconstruction
- 51 | Airport Way (West) Improvements
- 52 | Airport Way West Pedestrian Facilities
- 53 | University Avenue Rehab & Widening (2B)
- 54 | Mitchell Expressway Signal Interconnect
- 55 | Richardson Hwy Dynamic Messaging Sign
- 56 | Old Richardson Intersection Improvements
- 57 | Fairbanks Area Vehicle Plug-ins
- 58 | FAST Surface Upgrades
- 59 | North Pole Street Light Standardization
- 60 | Northern Region ADA Improvements
- 61 | Targeted Dynamic Messaging Sign

COLOR KEY

- Continuing into second year of construction
- Beginning construction in 2022



AREA-WIDE PROJECTS

- 43 44 45 46
- 57 58 59 60 61



Selawik Barge Landing Access Road & Boardwalk Improvements

- **Construction: Summer 2022**
- **Cost Estimate: \$5-10 million**
- **Rehabilitate the existing barge landing access road, construct a new gravel barge staging pad, and associated access points, install lighting, and replace sections of existing boardwalk.**



Lake Louise Road MP 9-19 Resurfacing

- **Construction: Summer 2022**
- **Contract Award: \$6 million**
- **Resurface Lake Louise Road, replace, clean and repair culverts, and level the road surface. The work will include a chip seal surface treatment to minimize dust and support M&O's efforts in maintaining the remote location.**



Alaska Highway MP 1235-1252 & 1222-1226 Rehabilitation

- **Construction: Summer 2022**
- **Cost Estimate: \$30-40 million**
- **This project patch multiple areas of asphalt damage on the Alaska Highway near the Canadian Border. Partnering with USFWS to roll in additional paving needs.**



Weather: Northern Region



- Primary Event December 25 through December 28, 2021
- Total Precipitation in December: Approx. 50" with 1.5" of rain.
- Heavy precipitation followed by winds and extreme cold.
- Parks, Richardson, Steese, Elliott West were all closed several times throughout the event.

Weather: Northern Region



- All Stations responded with crew OT.
- Brought in off shift operators from Dalton District.
- Held daily update meetings for initial response and 2 week after event.
- Brought on additional contractor resources.

Thank you!

Alaska Department of Transportation & Public Facilities

907-465-3900

