



April 5, 2022 Ballot Proposition FACT SHEET

Proposition #4 Anchorage Roads & Drainage Service Area \$34,870,000

Projects

1. 2 nd Ave/Nelchina St Area Storm Drain Improvements Phase II	\$2,100,000	21. Fish Creek Feasibility and Economic Study	\$320,000
2. 36 th Ave Resurfacing Phase II – Latouche St to Lake Otis Pkwy	\$500,000	22. Flooding, Glaciation, and Drainage Annual Program	\$750,000
3. 42 nd Ave Upgrade – Lake Otis Pkwy to Florina St	\$2,000,000	23. Image Dr/Reflection Dr Area Road Reconstruction Phase II	\$2,900,000
4. 48 th Ave/Cordova St Reconstruction – Old Seward Hwy to International Airport Rd	\$1,200,000	24. Intersection Resurfacing	\$150,000
5. 64 th Ave and Meadow St Area Drainage Improvements	\$500,000	25. Lakehurst Dr Area Drainage Improvements Phase V	\$200,000
6. 100 th Ave Surface Rehab – Victor Rd to Minnesota Dr	\$500,000	26. Lois Dr/32 nd Ave Upgrade – Benson Blvd to 32 nd Ave to Minnesota Dr	\$2,000,000
7. Abbott Rd Surface Rehab – 88 th Ave to Lake Otis Pkwy	\$500,000	27. Lore Rd Surface Rehab and Traffic Calming – Brayton Dr to Lake Otis Pkwy	\$1,000,000
8. ADA Improvements	\$500,000	28. Low Impact Development Annual Program	\$250,000
9. Airguard Rd Improvements Phase I	\$300,000	29. Maudest Pl Drainage and Surface Rehab	\$350,000
10. Alaska Railroad Crossing Rehabilitation	\$500,000	30. Old Seward Hwy/Int'l Airport Rd Area Storm Reconstruction	\$2,500,000
11. Alley Paving	\$300,000	31. Pavement and Subbase Rehabilitation	\$1,000,000
12. AMATS: Dr. Martin Luther King Jr. Ave Extension	\$100,000	32. Pedestrian Safety and Rehab Improvements Annual Program	\$500,000
13. AMATS: Spenard Rd Rehabilitation – Benson Blvd to Minnesota Dr	\$400,000	33. Road and Storm Drain Improvements Annual Program	\$1,000,000
14. Anchorage Signal System, Signage and Safety Improvements	\$500,000	34. Sound Barrier/Retaining Wall Replacement	\$250,000
15. Campbell Woods Subd Area Road and Drainage Improvements	\$3,500,000	35. Storm Drain Deficiencies and Rehabilitation Program	\$500,000
16. Camrose Dr Area Storm Drain Improvements	\$1,000,000	36. Street Light Improvements	\$500,000
17. Crawford St/Terry St Area Resurfacing Phase II	\$400,000	37. Traffic Calming and Safety Improvements	\$1,000,000
18. Dimond D Circle Curb and Resurfacing	\$200,000	38. W 32 nd and E 33 rd Ave Upgrades – Spenard Rd to Old Seward Hwy	\$1,000,000
19. Dowling Rd Surface Rehab – Lake Otis Pkwy to Elmore Rd	\$500,000	39. Zodiac Manor Subd Area Surface Rehab Phase IV	\$200,000
20. Downtown Lighting and Signals Upgrade	\$3,000,000	Total	\$34,870,000

Project Descriptions

See attached list.



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Costs Associated with Bond Approval

Bond Principal Amount	\$34,870,000
Estimated Annual Cost of Debt Service	\$2,394,276
Annual Increased Operations and Maintenance Costs	\$73,000

Estimated Annual Property Tax Increase for \$100,000 of Assessed Property Value:

To Retire Debt	\$8.93
Operations and Maintenance Costs	\$0.27

This bond will be voted on and if approved, will first impact property taxes of those that reside in the Anchorage Roads and Drainage Service Area. Property taxes for those that reside outside this Service Area should not be impacted.

For further information: Gary Jones, Capital Projects Coordinator, 343-8446

It is the expectation of the Municipality of Anchorage that the general obligation bonds proposed for April 5, 2022 will be used to make capital improvements to facilities in each service area noted. Information contained herein describes how MOA expects to use the bond proceeds. However, as project development progresses, changes in scope, project feasibility, phasing, timeline, or estimated costs may occur that result in acceleration, delay, or substitution of projects similar to those listed above.

2022 ANCHORAGE ROAD AND DRAINAGE SERVICE AREA BOND PROJECT INFORMATION

- 1. 2nd Ave/Nelchina St Area Drainage Phase II:** This project will replace or slip-line the existing storm drainpipe in the 2nd Avenue alignment in the Nelchina Street vicinity. Phase I of the project was completed in coordination with an Anchorage Water & Wastewater Utility (AWWU) project in 2016/2017. 2022 bond funding is for Phase II construction. The existing pipe is in a state of disrepair and this project is a high priority for Street Maintenance. The \$2,100,000 bond amount will provide funding for construction. The design was funded with prior year bonds and is nearly complete. Total project cost is estimated at \$2,600,000. Contact: Todd Jacobson at 522-6776. (CC: Mountain View, AD 1)
- 2. 36th Ave Surface Rehab Phase II – Latouche St to Lake Otis Pkwy:** This project will resurface this minor arterial in Midtown. The scope includes bringing pedestrian facilities into ADA compliance. Construction of Phase I from the Seward Highway to Latouche Street began in 2021, funded with 2020 approved bonds. Design of the remaining roadway is underway. The first lift of pavement is nearly worn through in places as evidenced by deep rutting. Some segments were rated Conditions E and F in the 2020 Governmental Accounting Standards Board (GASB) road survey. The project is the top priority for the Tudor Area Community Council. The \$500,000 bond amount will provide funding to complete design. Total project cost of Phase II is estimated at \$5,400,000. Contact: Russ Oswald at 343-8196. (CC: University, AD 4)
- 3. 42nd Ave Upgrade – Lake Otis Pkwy to Florina St:** This project will upgrade 42nd Avenue to current standards. The scope is expected to include a new road base, curb and gutter, street lighting, pedestrian facilities, traffic calming, and landscaping. The road serves a mix of high density residential and commercial/medical users. The existing road surface has substandard street lighting, and the surface is deteriorating due to inadequate drainage. This project has been the top priority of the University Community Council for nearly two decades. The \$2,000,000 bond amount will provide funding for continued design. The Design Study Report was funded with prior year bonds and is nearly complete. Total project cost is estimated at \$15,000,000. Contact: Russ Oswald at 343-8196. (CC: University, AD 4)
- 4. 48th Ave/Cordova St Upgrade – Old Seward Hwy to International Airport Rd:** The project will upgrade deteriorated collector routes in Midtown. 48th Avenue and Cordova Street have experienced substantial road base, curb, and pavement failure. Pedestrian and drainage facilities do not meet current standards. Improvements are expected to include a new road base, pavement, curbs, storm drainage, street lighting, and new sidewalks and multiuse pathways. The proposed \$1,200,000 in 2022 bond funding is for utility work and right-of-way acquisition. Construction is anticipated to begin in 2025 depending on the availability of funding and will be done in phases. Completion of East 48th Avenue from Cordova Street to the Old Seward Highway is prioritized as Phase I based on the results of the storm pipe condition assessment, which found that the pipe is heavily corroded and at risk of failure. The preliminary design for Phase I is underway. The total project cost is estimated at \$9,500,000. Contact: Melinda Tsu at 343-8110. (CC: University, AD 4)
- 5. 64th Ave/Meadow St Area Drainage Improvements:** This project will design and construct drainage improvements in the vicinity of the intersection. A concept report to determine the exact scope of the project and a drainage analysis to determine the effectiveness of the sedimentation ponds beside Meadow Street is underway. The \$500,000 bond amount will provide funding for design. Total project cost is estimated at \$2,500,000 but will be refined as the precise scope of the project is determined. Contact: Russ Oswald at 343-8196. (CC: Abbott Loop, AD 4)

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6. **100th Ave Surface Rehab – Minnesota Dr to Victor:** This project will resurface this minor arterial roadway. In addition, pedestrian facilities will be updated to current ADA standards. Potholes are proliferating as the top layer of pavement erodes producing a potential safety hazard. In addition, ruts are beginning to form. The project is a high priority for Street Maintenance and Bayshore area residents. This bond includes \$500,000 for project design. Total project cost for the road improvements is estimated at \$3,000,000. Construction is anticipated to begin in 2023 or 2024, depending on the availability of funding. Contact: Gary Jones at 343-8446. (CC: Bayshore/Klatt, AD 6)
7. **Abbott Rd Surface Rehab – 88th Ave to Lake Otis Pkwy:** This project will resurface the pavement on this major arterial. Pedestrian facilities will be evaluated and replaced or upgraded to current ADA standards as needed. The existing road surface has deteriorated to the point safety may be impacted. This bond includes \$500,000 to begin the project design. The total estimated project cost is \$1,500,000. Contact: Gary Jones at 343-8446. (CC: Abbott Loop, AD 4)
8. **ADA Improvements:** This project will construct miscellaneous ADA improvements including installation of curb ramps. Many of Anchorage's sidewalks and crosswalks are not fully compliant with the Americans with Disabilities Act (ADA) guidelines for barrier-free access. This bond includes \$500,000 for design and construction of many small projects throughout Anchorage. This is an annual program, and a 2023 construction start is planned. Contact: Russ Oswald at 343-8196. (CC & AD: ARDSA-wide)
9. **Airguard Rd Improvements Phase I:** The project scope is expected to include drainage enhancements including a combination of improvements to ditches and culverts. The street will be resurfaced. The deterioration of the road surface and proliferation of potholes have negatively impacted area residents and increased maintenance costs to the Municipality. This project is a priority for Street Maintenance. The \$300,000 bond amount will allow for 2022/2023 construction. Total project cost is estimated at \$600,000. Funding for Phase II will be pursued in a future bond. Contact: Paul VanLandingham at 343-8372. (CC: Sand Lake, AD 3)
10. **Alaska Railroad Crossing Rehabilitation:** This funding will reimburse the Alaska Railroad (ARR) for rehabilitation work on three crossings: Bluff Drive, Whitney Drive, and 100th Avenue. The Municipality is obligated by permit to pay for road crossing upgrades where municipal streets cross ARR right of way. This bond includes \$500,000 for the upgrades at these crossings, with the work expected to occur in 2022/2023. This is an annual program. The Municipality of Anchorage and the Alaska Railroad work together to rehabilitate all the crossings in the Municipality on a rotating 30-year schedule to ensure the safety of the crossings for the traveling public. Contact: Gary Jones, 343-8446. (CC & AD: ARDSA-wide)
11. **Alley Paving:** This project will pave alleys located throughout the Anchorage Roads and Drainage Service Area. This is an annual program that will fund the paving of 10-12 alleys per year. There are approximately 470 unpaved alleys remaining within ARDSA. This project is a priority for Street Maintenance. The \$300,000 bond amount will allow for 2022 construction. Contact: Paul VanLandingham at 343-8372. (CC: ARDSA wide, AD All)
12. **AMATS: Dr. Martin Luther King Jr. Avenue Extension** The project will extend Dr. Martin Luther King Jr. Avenue from Elmore Road to the west and create a new collector connection to Piper Street. The project was included on the AMATS 2019-2022 Transportation Improvement Plan and is being funded through the

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Federal Highway Administration. Because federal funding is being used, the State of Alaska Department of Transportation & Public Facilities is administering the project with input from Project Management & Engineering representing the Municipality. Federal funding requires a local match payment. This bond includes \$100,000 to provide the required local match for the project design. The total project cost is estimated at \$14,000,000. Contact: Melinda Tsu at 343-8110. (CC: Campbell Park & AD: 4)

- 13. AMATS: Spenard Rd Rehabilitation – Benson Blvd to Minnesota Dr:** The project will rehabilitate Spenard Road from Benson Boulevard to Minnesota Drive. The road surface will be replaced, non-motorized facilities will be added, and ADA facilities and lighting will be brought to current standards. The project was included on the AMATS 2019-2022 Transportation Improvement Plan and is being funded through the Federal Highway Administration. Because federal funding is being used, the State of Alaska Department of Transportation will manage the project with input from Project Management & Engineering representing the Municipality. Federal funding requires a local match payment. This bond includes \$400,000 to provide the required local match for the project design. The total project cost is estimated at more than \$44,000,000. Contact: Melinda Tsu at 343-8110. (CC: Spenard & AD: 3)
- 14. Anchorage Signal System, Signage, and Safety Improvements:** This program reconstructs and upgrades the Anchorage traffic system within the Anchorage Roads and Drainage Service Area. This project is part of an annual program to construct priority improvements that will improve safety and traffic flow as identified by the Traffic Engineering Department through its annual review of traffic and crash data. Improvements may include replacing and/or upgrading signals, turning lanes and lights, signs, site assessment devices, traffic detection loops, and any other equipment needed to upgrade the system. Design and construction funding are proposed annually through road bonds. Because of age, many traffic signal and sign facilities in Anchorage have deteriorated to the point that replacement is required to keep the system operating. Upgrades, primarily related to technological advancements, are available to improve system efficiency and reduce annual operation and maintenance costs. This bond contains \$500,000 for these upgrades. Contact: Bradly Coy, 343-8070. (CC & AD: ARDSA-wide)
- 15. Campbell Woods Subdivision Area Road and Drainage Improvements Phase IV:** This project will construct road and drainage improvements on the final phase of the project, which includes Edinburgh Drive, Elgin Circle, and Strathmore Drive. Most of the neighborhood roads rated a Condition F on the Municipality's 2020 survey of street surface conditions across Anchorage. The project is a priority for the area residents and Street Maintenance due to the roadway frost heaving, deep cracks, and potholes, and drainage issues causing ponding and glaciation. The project will include replacement of roadway subgrade, curb and gutter, asphalt, streetlights, and a new drainage system. The \$3,500,000 bond amount will provide for the final phase of construction, which is expected to bid in 2022. Design and the first three phases of construction were funded through prior year road bonds. Total project cost is estimated at \$18,000,000. Contact: Contact: Melinda Tsu at 343-8110. (CC: Sand Lake, AD 3)
- 16. Camrose Dr Area Storm Drain Improvements:** This project will evaluate the alternatives for improving drainage in the neighborhood and construct the best solution. Resurfacing some of the neighborhood streets is also being considered in the project scope. The existing drainage system is not performing correctly and has become a threat to surrounding homeowners. The project is a priority for Street Maintenance. A Design Study is underway. This bond includes \$1,000,000 to complete design and for easement acquisition.

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Construction is anticipated in 2023, depending on the availability of funding. The total project cost is estimated to be \$3,750,000. Contact: Russ Oswald at 343-8196. (CC: Northeast, AD 5)

- 17. Crawford St/Terry St Area Resurfacing Phase II:** This project will construct drainage improvements on these streets. These improvements will include culvert replacements, enhanced ditching, reshaping the road base to re-establish drainage flows, and resurfacing the streets. The project is a priority for the surrounding residents and Street Maintenance. The \$400,000 bond amount will allow for 2022/2023 construction. Total project cost is estimated at \$400,000. Contact: Paul VanLandingham at 343-8372. (CC: Sand Lake, AD 3)
- 18. Dimond D Cir Curb Repair/Replacement and Resurfacing:** This project repair where possible or replace the curbs on the street before resurfacing the roadway. The asphalt has disintegrated over parts of the street as evidenced by extensive potholing and cracking. The project is a priority for Street Maintenance and the businesses whose only access is Dimond D Circle . The \$200,000 bond amount will allow for 2022/2023 construction. Total project cost is estimated at \$200,000. Contact: Paul VanLandingham at 343-8372. (CC: Taku/Campbell, AD 4)
- 19. Dowling Rd Surface Rehab – Lake Otis Pkwy to Elmore Rd:** This project will resurface this major arterial road. In addition, pedestrian facilities will be updated to current ADA standards. The top layer of pavement has eroded in many places as evidenced by frequent pot holing. The project is a high priority for Street Maintenance. This bond includes \$500,000 for design. Total project cost for the road improvements is estimated at \$4,500,000. Construction is planned for 2023 depending on the availability of funding. Contact: Gary Jones at 343-8446. (CC: Abbott Loop/Campbell Park, AD 4)
- 20. Downtown Lighting and Signals Upgrade:** The project will replace and upgrade the signals, street lighting, and all related electrical components on the G Street to E Street segment of 4th Avenue. Previous bond funds have produced an inventory and condition assessment of the existing lighting/signals/electrical systems for the entire downtown area. This effort has demonstrated that much of the infrastructure downtown has exceeded its life expectancy. Safety concerns are evident in reduced lighting levels and poles that are corroded. Due to the very large scope and cost of the project, upgrade work will be done in phases by priority. 4th Avenue is the highest priority from that study effort. This bond includes \$3,000,000 for continued design on this phase and for a 2023 bid followed by 2024 construction. Funding for additional phases is anticipated in future bond packages. The total project cost is estimated at more than \$100,000,000. Contact: Melinda Tsu at 343-8110. (CC: Downtown & AD: 1)
- 21. Fish Creek Feasibility and Economic Study:** This funding will conduct a feasibility study to assess daylighting (restoring the creek to the surface from an underground pipe) Fish Creek between Cuddy Midtown Park and Minnesota Drive at Tudor Road. The study will examine the history of Fish Creek, consult a previous study of the watershed, assess its current route and infrastructure, and provide alternatives for daylighting. The project will identify costs for alternatives including permitting, utility conflicts and right-of-way requirements. Public involvement will be a key component of the effort. This bond includes \$320,000 for the initial phase of the project. Contact: Gary Jones at 343-8446. (CC: Midtown/Spenard & AD: 3&4)
- 22. Flooding, Glaciation, and Drainage Improvements:** This project will design and construct drainage projects throughout Anchorage. The goal is to improve safety and reduce operation and maintenance costs. Street Maintenance has identified many small drainage problems throughout the city. This funding will allow the Municipality to respond quickly to the needs as they are identified. Design and construction funding are

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proposed annually. This bond includes \$750,000 for design and construction. Contact: Kent Kohlhasse, 343-8143. (CC & AD: ARDSA-wide)

- 23. Image Dr/Reflection Dr Area Road Reconstruction Phase III:** This project will replace the storm drain and reconstruct the local roads in this area. The storm drains in these roads were discovered to be at or near the point of failure. In addition, the creek running through the subdivision is at a higher elevation than some of the storm drain system. This causes reverse flow that is a threat to nearby properties. The Municipality's 2020 Pavement Condition Survey rated many of these road segments as Condition F - the worst designation. This bond includes \$2,900,000 for the third phase of construction. The third phase includes improvements to Reflection Drive and the adjoining circles. The estimated total project cost is \$17 million. Phase I and II construction primarily included improvements to Reflection Drive and was funded with a combination of state grants and prior year bonds. Construction of Phase III is expected to begin in 2022 and finish in 2023. Contact: Russ Oswald, 343-8196. (CC: University, AD 5)
- 24. Intersection Resurfacing:** This project will resurface intersections throughout ARDSA. Due to the starting/stopping action of vehicles, the road surfaces around intersections wear down more quickly than the road surfaces between intersections. This project will target intersections that have required repeated maintenance service. Over 250 locations throughout ARDSA have been repaired in the last three years of this program. This project is a priority for Street Maintenance. The \$150,000 bond amount will allow for 2022 construction. The project is an annual program. Contact: Paul VanLandingham at 343-8372. (CC & AD: ARDSA-wide)
- 25. Lakehurst Dr Area Drainage Improvements Phase V:** This project will continue the installation of a subdrain storm system in the Lakehurst Subdivision area. The purpose of the project is to alleviate flooding of private property and roads due to the high water table throughout the entire subdivision. Phase I completed the tie-in into the Alaska Department of Transportation storm drain system on Dimond Boulevard and paving of the main subdivision intersection. Phases II through IV extended the sub drain further into the subdivision. Remaining phases will continue into the subdivision until the ground water is controlled. These improvements are expected to include improving the ditches, installing some sub drain, replacing ineffective culverts, reshaping the roadway to reestablish drainage flow, and resurfacing the streets as needed. The project is a priority for the surrounding residents and Street Maintenance. The \$200,000 bond amount will allow for 2022/2023 construction of the fifth phase of the project. Total project cost is estimated at \$1,000,000.00. Contact: Paul VanLandingham at 343-8372. (CC: Sand Lake, AD 3)
- 26. Lois Dr/32nd Ave Upgrade – Benson Blvd to Minnesota Dr:** The project will upgrade Lois Drive from Benson Boulevard to 32nd Avenue, and 32nd Avenue from Lois Drive to Minnesota Drive, to current urban standards. Improvements are expected to include a new road base, storm drain installation with curb and gutter, pedestrian facilities, and upgraded street lighting. Construction is anticipated to be phased due to the high cost of the project. MOA's 2020 Pavement Condition Survey rated this road segment as Condition F - the worst designation. The need for the project was confirmed in the West Anchorage District Plan. It is a priority for the Spenard Community Council. This bond includes \$2,000,000 for design, utility relocation, and easement acquisition. The total project cost is estimated at \$13,200,000. Contact: Russ Oswald, 343-8196. (CC: Spenard, AD 3)

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- 27. Lore Rd Surface Rehab and Traffic Calming – Brayton Dr to Lake Otis Lkwy:** The project will resurface this collector street. Traffic calming measures are planned for some of the intersections. Pedestrian facilities will be made ADA (Americans with Disabilities Act) compliant. This bond includes \$1,000,000 to fund continued design and easement acquisition. Total project cost for the road improvements is estimated at \$3,000,000. Contact: Bradly Coy, 343-8070. (CC: Abbott Loop, AD 4)
- 28. Low Impact Development Annual Program:** This project will be used to build storm sewer disconnects and drainage infrastructure using low impact development methods from which the Watershed section will create design guidance for the community. Low Impact Development is a program of the Alaska Pollution Discharge Elimination System permit requiring the Municipality to perform demonstration projects which reduce the peaks and timings of storm flows into water bodies from the storm sewer system. This bond includes \$250,000 to identify and construct infrastructure in 2022 and 2023. This is an annual program. Contact: Kristi Bischofberger, 343-8058. (CC & AD: ARDSA-wide)
- 29. Maudest PI Drainage and Surface Rehab:** The project will install a storm drain to transfer water from the low spot to an existing pipe in E 22nd Avenue to the north. There is not a functioning drainage system on most of Maudest Place. Settling of the adjoining ground has resulted in the accumulation of runoff from seasonal flooding that is adversely impacting structures on the street. This project is a priority for Street Maintenance. The \$350,000 bond amount will allow for 2022/2023 construction. Total project cost is estimated at \$350,000. Contact: Paul VanLandingham at 343-8372. (CC: Russian Jack, AD 5)
- 30. Old Seward Hwy/International Airport Rd Area Drainage:** The project will upgrade the storm drain system from the end of Phase I of the project on the Old Seward Highway, south to International Airport Road, then west along International Airport Road to the outfall that drains south into Campbell Creek. The project will include not only the storm drain replacement, but repair and replacement of the asphalt as well. This outfall project is the top drainage priority for Street Maintenance. The \$2,500,000 bond amount will allow for a fall 2002 bid and 2023 construction. Total project cost is estimated at \$3,000,000. Contact: Russ Oswald, 343-8196. (CC: Russian Jack, AD 5)
- 31. Pavement and Sub-base Rehabilitation:** This program resurfaces ten to fifteen miles of streets annually with recycled asphalt pavement (RAP). Improvements also include grading, ditching, chip seal surfacing, and reclaiming. This is an annual program. There are many roads in ARDSA that need surface treatment to preserve the underlying road base, and this rehabilitation approach is far more cost effective than full reconstruction. The benefits of this program include quick installation time and reduced maintenance costs. This bond includes \$1,000,000 for construction. This project ranked high because of the deteriorating condition of local road surfaces throughout ARDSA. Construction will continue in 2022. Contact: Paul VanLandingham, 343-8372.
- 32. Pedestrian Safety and Rehab Improvements:** This annual program funds pedestrian safety and rehabilitation projects throughout Anchorage. Improvements include construction of missing links of the existing network of pedestrian facilities, and rehabilitation of existing sidewalks and trails. This bond includes \$500,000 for design and construction. This project ranked high primarily because of the deteriorating condition of pedestrian facilities and the need to provide non-motorized connections. Contact: Russ Oswald, 343-8196. (CC& AD: ARDSA-wide)

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- 33. Road and Storm Drain Improvements Program:** This program funds road and drainage repair and replacement projects throughout the Anchorage Roads and Drainage Service Area (ARDSA). Project priorities are established in a collaborative process with Street Maintenance, Traffic, and Project Management & Engineering. Input from elected officials, community councils, and the public has and will continue to be pursued in selecting projects for funding through this program. The deterioration of the pavement surfaces of local, collector, and arterial streets has outpaced funding for repair. The surface conditions are typically the result of an inadequate or failing drainage system. Therefore, road surface improvements usually require drainage improvements as well. Funding will also be used on community and street maintenance priorities on both major and local roads. This bond includes \$1,000,000 for design and construction. Construction is expected to occur in 2022/2023. Contact: Gary Jones, 343-8446. (CC & AD: ARDSA-wide)
- 34. Sound Barrier/Retaining Wall/Fencing Replacement:** This project will replace sound barrier, retaining walls, and other types of fencing located with municipal rights-of-way throughout the Anchorage Roads and Drainage Service Area. This is an annual program. Some of the infrastructure along the edges of municipal rights-of-way has deteriorated to the point of becoming ineffective at best and a safety hazard at worst. This project is a priority for Street Maintenance. The \$250,000 bond amount will allow for 2022 construction. Contact: Paul VanLandingham at 343-8372. (CC & AD: ARDSA-wide)
- 35. Storm Drain Condition Deficiencies and Rehabilitation Program:** This project will investigate/assess the condition of the Anchorage Roads and Drainage Service Area (ARDSA) storm drain systems and rehabilitate those system segments as the needs are identified and prioritized. There are approximately 2,213,000 linear feet of underground storm drainpipe in the Anchorage Roads and Drainage Service Area. Metal pipe was primarily used prior to 1990. Much of the metal storm drainpipe in the Anchorage system has corroded to the extent that in some instances it has completely vanished. These system failures impact the public in many ways. Primary impacts include health & safety consequences and property damage through flooding. This bond includes \$500,000 for assessment and rehabilitation work to be performed in 2022 and 2023. This is an annual program. Contact: Melinda Tsu, 343-8110. (CC & AD: ARDSA-wide)
- 36. Street Light Improvements:** This project will construct new streetlights and replace existing streetlights within ARDSA. Specific locations will be identified by the Street Maintenance and Traffic Departments. The Municipality has been systematically replacing the old, expensive to maintain, streetlights with more energy-efficient LED lights as part of this program. The streetlights in many neighborhoods do not meet current safety guidelines and this expense is not covered in the street maintenance budget. This is an annual funding program. This bond includes \$500,000 for installation and replacement. Contact: Paul VanLandingham at 343-8372. (CC & AD: ARDSA-wide)
- 37. Traffic Calming and Safety Improvements:** This program evaluates the implementation of the traffic calming program and safety improvements throughout the Anchorage Roads and Drainage Service Area (ARDSA). Specific improvements will be identified and prioritized by the Traffic Engineering Department in conjunction with public involvement. Design and construction funding are proposed annually. On many neighborhood and collector roads, vehicles are driven above posted speeds which can create unsafe situations. Traffic calming measures are typically used to slow traffic. This bond includes \$1,000,000 for project management, design, and construction of improvements. Contact: Bradly Coy, 343-8070. (CC & AD: Areawide)

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- 38. W 32nd and E 33rd Ave Upgrades – Spenard Rd to Old Seward Hwy:** The project will upgrade this midtown collector to a safer and more pedestrian/bicycle friendly corridor while maintaining its functionality as a collector for moving vehicular traffic. Improvements are expected to include a new road base, resurfacing, installing or repairing storm drain as needed, making pedestrian facilities Americans with Disabilities Act (ADA) compliant and extending where warranted, upgrading lighting to current standards, installing transit facilities, adding traffic calming and landscaping appropriate for the usage. Construction began on the first phase in 2021. That phase will create a non-motorized connection between Arctic Boulevard and Spenard Road. In addition, Phase I upgrades West 30th Avenue, which is a local road. West 32nd and East 33rd Avenues serve as the major non-motorized east/west connection in Midtown Anchorage. The \$1,000,000 bond amount will allow for continued design on the remainder of the phases. Construction of future phases will occur as funding becomes available. Total project cost on all four phases is estimated at \$25,000,000. Contact: Melinda Tsu, 343-8110. (CC: Midtown & Spenard, AD 3,4)
- 39. Zodiac Manor Subd Area Surface Rehab Phase IV:** This project will resurface the streets in Zodiac Manor Subdivision. These improvements are expected to include improving the ditches, replacing ineffective culverts, reshaping the roadway to reestablish drainage flow, and resurfacing the streets as needed. The project is a priority for the surrounding residents and Street Maintenance. The \$200,000 bond amount will allow for 2022/2023 construction for the next phase of the project. Construction is nearly complete on the first two phases. Total project cost is estimated at \$1,000,000. Contact: Paul VanLandingham at 343-8372. (CC: Abbott Loop, AD 4)