

Business Item

Transportation Committee



Committee Meeting Date: January 08, 2024

For the Metropolitan Council: January 24, 2024

Business Item: 2024-05

Review of Metropolitan Airports Commission (MAC) 2024-2030 Capital Improvement Program (CIP)

District(s), Member(s): All Districts and Members
Policy/Legal Reference: MN Statutes 473.145, 472.165, 473.181 and 473.621 Sd 6&7
Staff Prepared/Presented: Joe Widing, Senior Transportation Planner, 651-602-1822
Amy Vennewitz, Deputy Director, 651-602-1058
Charles Carlson, Director, 651-602-1754
Division/Department: Metropolitan Transportation Services (MTS)

Proposed Action

That the Metropolitan Council:

- Find that the Metropolitan Airports Commission (MAC) had an adequate public participation process for the development and review of its 2024-2030 Capital Improvement Program (CIP), including preparation of an assessment of environmental effects (AOEE) for 2024 projects with potential environmental effects.
- Find that the 2024 CIP projects are in conformance with the region's Aviation System Plan in the 2040 Transportation Policy Plan and consistent with Council policy.

Background

The Metropolitan Airports Commission (MAC) annually prepares a Capital Improvement Program (CIP) for projects at Minneapolis-St. Paul International Airport (MSP) and their six General Aviation reliever airports. Under state statutes 473.181 and 473.621 the Council must:

- Determine adequacy of public participation in the CIP process,
- Approve CIP projects meeting certain dollar thresholds, \$5 Million at MSP and \$2 Million at all reliever airports and "significant effects" criteria (referenced in Attachment 2, A-H), and
- Review and comment on all projects for consistency with the Transportation Policy Plan (TPP), including planning and environmental concerns.

The Transportation Advisory Board's Technical Advisory Committee (TAC) reviewed the draft CIP and recommended approval of the Council's review at their December meeting. The Transportation Advisory Board (TAB) also reviewed the draft CIP at their December meeting and recommended approval of the Council's review. The MAC took action on December 18th to adopt the final 2024-2030 CIP. Changes from the public comment drafts have been incorporated into this action.

Attachment 1 explains the CIP implementation schedule which outlines MAC and Metropolitan Council responsibilities and timelines. An assessment of environmental effects (AOEE) has been prepared for 2024 projects with potential environmental effects, and MAC has in place an

adequate public participation process for development and review of its AOEE and CIP. MAC held a public hearing on the AOEE on November 6, 2023 at 10:30 AM at the Planning, Development and Environment Committee meeting at the MSP Conference Room.

Attachment 2 shows projects that are anticipated to meet the \$5M and \$2M thresholds in 2024 and the significant effects criteria, which would trigger the need for Council approval. There are no projects in 2024 which meet both the dollar threshold and the other significant effects criteria.

The following 2024 projects meet the dollar threshold levels but do not meet the other “significant effects” criteria to trigger project approval:

Airport	Category	Project	Cost
MSP	End of Life/ Replacement Projects	Concourse E and F Bridge Heating and Cooling System Replacement	\$5,000,000
MSP	End of Life/ Replacement Projects	Concourse G Apron Pavement Reconstruction	\$11,600,000
MSP	End of Life/ Replacement Projects	MSP Liquid Deicer Storage Facility	\$17,700,000
MSP	Long Term Comprehensive Plan Projects	Baggage Claim/Ticket Lobby Operational Improvements	\$25,000,000
MSP	Long Term Comprehensive Plan Projects	Concourse G Infill – Pod 2-3	\$285,000,000
MSP	Long Term Comprehensive Plan Projects	Terminal 2 North Gate Expansion	\$240,000,000
MSP	Long Term Comprehensive Plan Projects	Terminal 2 H1-H2 Apron and Building Modifications	\$30,000,000
MSP	Maintenance/Facility Upgrade Projects	Concourse A Heating System Upgrade	\$11,000,000
MSP	Maintenance/Facility Upgrade Projects	MAC Automation Infrastructure Program	\$5,300,000
MSP	Maintenance/Facility Upgrade Projects	Apron Lighting LED Upgrade	\$5,000,000
MSP	Maintenance/Facility Upgrade Projects	MAC Storage Facility	\$34,000,000
MSP	Maintenance/Facility Upgrade Projects	Safety and Security Center	\$165,000,000
MSP	Maintenance/Facility Upgrade Projects	Maintenance Campus Infiltration Pond	\$13,100,000
MSP	Ongoing Maintenance Programs	Air Handling Unit Replacement	\$5,100,000
MSP	Ongoing Maintenance Programs	Concourse G Rehabilitation	\$10,000,000
MSP	Ongoing Maintenance Programs	Electrical Substation Replacement	\$10,000,000
MSP	Ongoing Maintenance Programs	Ground Power Substation Replacement	\$9,000,000
MSP	Ongoing Maintenance Programs	Parking Structure Rehabilitation	\$5,900,000
MSP	Ongoing Maintenance Programs	MSP Campus Building Roof Replacement	\$6,100,000
MSP	Tenant Projects	Concourse and Gate hold Modernization	\$85,600,000
STP	Reliever Airports Maintenance/Facility Upgrade Projects	Customs and Border Protection General Aviation Facility	\$4,500,000
STP	Reliever Airports Maintenance/Facility Upgrade Projects	Runway 14-32 Reconstruction	\$10,000,000
ANE	Reliever Airports Maintenance/Facility Upgrade Projects	Airport Rd and GA Blvd Pavement Reconstruction	\$2,100,000
ANE	Reliever Airports Maintenance/Facility Upgrade Projects	Equipment Storage and Maintenance Building	\$5,000,000

Federal, state and MAC funding has been identified by the MAC for most projects in the 2024-2030 CIP.

All projects in the 2024 CIP are consistent with the Transportation Policy Plan (TPP). Many of the

MSP projects were evaluated in the 2020 Improvements Environmental Assessment for MSP that received a Finding of No Significant Impact (FONSI) in March of 2013 from the Federal Aviation Administration (FAA). Initial analysis of the future years (2025-2030) of the CIP shows that many projects will meet the dollar threshold of review with two of those projects also meeting the significant effects criteria in addition to the dollar threshold. The first is a runway rehabilitation project at the Lake Elmo Airport for the crosswind runway 04-22 which includes a modest extension of 254 feet, to bring the runway to 2,750 feet in total length. This extension is being done in order to provide the greatest safety and operational flexibility to aircraft which use the airport currently. The project was approved in the Lake Elmo Long Term Comprehensive Plan and was issued a FONSI by the FAA in 2018. The Lake Elmo project is anticipated to begin construction in 2025 and will require Council approval in the next CIP review. The other project is the Airlake Airport Runway 12-30 Improvements project which is a runway reconstruction and extension that is scheduled for 2026 implementation. This project would reconstruct the single runway at Airlake and extend it 750 feet to 4,850 feet. This project has been delayed multiple years but is currently in the environmental review phase and is expected to be formally reviewed to be considered for approval by the Council in the coming years. Additionally, after the approval of the MSP 2040 LTCP, new projects from this effort may also begin to appear in future CIPs. All potential projects will be re-evaluated on an annual basis.

There are three large dollar projects included in the 2024 CIP that do not meet the significant effects criteria, but are notable as they are anticipated to cost over \$100 million each.

- The Concourse G Infill Pod 2-3 project is \$285,000,000 in 2024 and will expand waiting areas and make other passenger improvements in the G Concourse but does substantially increase the enplanements capacity of Terminal 1. The Concourse G infill project had a separate EAW completed in November of 2022. The Council reviewed the EAW for this project and had no comments. The MAC determined that the project does not have the potential for significant environmental effects.
- The Terminal 2 North Gate Expansion is \$240,000,000 in 2024 and will expand Terminal 2 to the north by adding passenger boarding bridges, gate hold seating, concessions, and support spaces. The project is anticipated to be LEED Gold rated with solar-ready roof, green roof installations and mass timber construction. This project will add additional capacity to Terminal 2 but will not meet the threshold to trigger Council approval of a 25% or greater increase passenger enplanement levels. The Terminal 2 project was included in the MSP 2020 Improvements EA/EAW.
- The Safety and Security Center project is a multiphase project which will be \$165,000,000 in 2024. This phase of the project will construct a building to house an Integrated Operations Center to consolidate operations, communications and police facilities into a centralized state-of-the-art building to improve collaboration and communication of emergency and airside operations at MSP. This project is considered a maintenance/facility upgrade and not subject to formal Council approval and does not require environmental review.

There is currently one other project for which an Environmental Assessment Worksheet (EAW) is anticipated to be required, the Runway 30R Parallel Taxiway project which will construct a new taxiway north of runway 30R at MSP. This project is anticipated to begin in 2026, if determined feasible. The MAC notes an EAW will need to be completed before any work commences.

Rationale

Annual oversight review is needed to meet statutory requirements and to ensure that proposed project scopes and costs are responsive to system needs and conditions. Seven “significant effects” criteria (see criteria A-H in Attachment 3) determine projects that affect the orderly and economic development of the metropolitan area and would trigger the need for Council approval, as stated previously there are no projects in 2024 identified that would require approval.

Thrive Lens Analysis

The MAC CIP has a focus on stewardship of important regional assets and promoting prosperity as an economic driver in the region, providing high quality employment for residents of the region and access to destinations across the world. The MAP CIP also furthers livability by providing a high-quality experience for residents, businesses, and visitors traveling through and using the MAC airports. In addition to the the environmental review process which includes an analysis of environmental effects that addresses sustainability and equity as part of the analysis, the MAC is a leader in facility sustainability efforts in the industry.

Funding

There are no funding implications for the Council with this item. Federal, state, MAC funding has been identified for all projects from 2024-2026. Projects from 2027-2030 are included for planning purposes only.

MAC 2024 – 2030 Capital Improvement Program

The MAC 2024 – 2030 Capital Improvement Program material included in this memorandum reflects the final action by the Metropolitan Airports Commission at their December 19, 2023 meeting.

The overall review schedule for the CIP is shown below. Materials for the Met Council/TAB review are included in the following attachments:

- Attachment 1 – MAC 2024-2030 CIP Development and Public Review Schedule
- Attachment 2 – Projects Meeting Statutory Review Criteria & Requiring Approval. There are no projects that meet the criteria and requires approval from the Metropolitan Council this year.
- Attachment 3 – 2024 Projects Requiring an Assessment of Environmental Effects (AOEE). Four 2024 CIP projects meet criteria for environmental review, all projects have been analyzed in environmental assessments.
 - T1 Baggage Claim/Ticket Lobby Improvements
 - Terminal 2 North Gate Expansion
 - Concourse G Infill – pod 2-3 Phase 2
- Attachment 4 – Projects Meeting \$5M and \$2M Thresholds 2024-2030. A number of projects potentially meet the threshold dollar levels at both MSP and the MAC reliever airports.



Attachment 2 – 2024 Projects Meeting Statutory Review Criteria and Requiring Approval:

2024 CIP Projects, by Airport	Long-Term Comp Plan Reviews/ Actions	AOEE Actions	Capital Review Criteria (A)	Capital Review Criteria (B)	Capital Review Criteria (C)	Capital Review Criteria (D)	Capital Review Criteria (E)	Capital Review Criteria (F)	Capital Review Criteria (G)	Capital Review Criteria (H)
Details	Review Action	<ul style="list-style-type: none"> EA-EAW Prepared EIS Reviewed NPDES Approved Legislative Requirement Regulatory Requirement Legal Requirement 	Project meets Dollar threshold at: MSP = \$5M Relievers = \$2M	Location of a New Airport	New Runway at an Existing Airport	A Runway Extension at an Existing Airport	Runway Strengthening other than Routine Maintenance	New or Expanded Passenger Handling or Parking Facilities for 25% or more capacity Increase.	Land Acquisition associated with the other criteria, or that would cause relocation of residential or business activities	Project information made available by the MAC to affected cities for review
MSP International Airport 2024 Program	2030 LTCP Update Approved in 2010, 2040 LTCP to be reviewed in Jan 2024		Several projects, see business item	N/A	N/A	N/A	N/A	N/A	N/A	N/A
St. Paul Downtown Airport (STP)	2025 LTCP Approved in 2010, update anticipated to begin in 2024		Customs and Border Protection general aviation facility, Runway 14-32 Reconstruction	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flying Cloud Airport (FCM)	2025 LTCP Approved in 2010, 2040 LTCP to be reviewed in 2024	MAC-City Agreement concluded; FAA review of Agreement & R.O.D. on FEIS completed as part of MAC/Airline Agreement.	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crystal Airport (MIC)	2035 LTCP Approved in 2017	FAA Issued FONSI in July 2019	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anoka County-Blaine Airport (ANE)	2025 LTCP Approved in 2010, update anticipated to begin in 2025		Airport Rd and GA Blvd Pavement Reconstruction, Equipment Storage and Maintenance Building	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lake Elmo Airport (25D)	2035 LTCP Approved 2016	FAA issues Finding of No Significant Impact for EA in Aug 2018	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Airlake Airport (LVN)	2035 LTCP Approval in 2018	Runway 12-30 improvements EA/EAW currently underway	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Attachment 3 – 2024 Projects Requiring an Assessment of Environmental Effects (AOEEs):

Environmental Categories Affected by the Project, MSP Airport

Project Description	Are the Effects of the project Addressed in an Approved EAW, EA or EIS?	Air Quality	Compatible Land Use	Fish Wildlife and Plants	Floodplains and Floodways	Hazardous Materials, Pollution Prevention and Solid Waste	Historical, Architectural, Archaeological and Cultural Resources	Light Emissions and Visual Effects	Parks & Rec. Areas and Trails	Noise	Water Quality (Storm, Waste and Ground Water)	Wetlands	Infra-structure and Public Services	Farmland	Erosion and Sedimentation
T1 Baggage Claim/Ticket Lobby Improvements Terminal 2 North Gate Expansion Concourse G Infill – pod 2-3 Phase 2	MSP 2020 Improvements EA/EAW MSP – Concourse G Infill – Pod 2-3 EAW	None	None	None	None	None	None	None	None	None	None	None	None	None	None

Environmental Categories Affected by the Project, Reliever Airports

Project Description	Are the Effects of the project Addressed in an Approved EAW, EA or EIS?	Air Quality	Compatible Land Use	Fish Wildlife and Plants	Floodplains and Floodways	Hazardous Materials, Pollution Prevention and Solid Waste	Historical, Architectural, Archaeological and Cultural Resources	Light Emissions and Visual Effects	Parks & Rec. Areas and Trails	Noise	Water Quality (Storm, Waste and Ground Water)	Wetlands	Infra-structure and Public Services	Farmland	Erosion and Sedimentation
No projects for 2024	N/A	None	None	None	None	None	None	None	None	None	None	None	None	None	None



Attachment 4 – MAC Projects Anticipated to Meet the \$5 million and \$2 million Thresholds from 2023 – 2029:

	=Projects that meet the \$5 million threshold at MSP or the \$2 million threshold at reliever airports but DO NOT meet “significant effects” criteria.							
	=Projects that meet the \$5 million threshold at MSP or the \$2 million threshold at reliever airports and meet the “significant effects” criteria requiring Council approval prior to implementation.							
NOTES	MSP End of Life/Replacement Projects	2024	2025	2026	2027	2028	2029	2030
	10 - Terminal 1							
2	Concourse and Hub Tram Replacement				\$300,000,000	\$300,000,000		
3	Cooling Unit Replacement	\$1,125,000						
4	Passenger Boarding Bridge Replacements	\$4,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000
5	Recarpeting Program		\$2,000,000					
5	Terminal 1 Outbound Baggage Handling System Replacement							\$250,000,000
	13 - Energy Management Center							
5	Terminal 1 Boiler and Chiller Replacement and EMC Expansion		\$250,000		\$420,000,000			
5	Concourse E and F Bridge Heating and Cooling System Replacement	\$5,000,000	\$1,800,000					
3	GTC Dual-temperature Pump Improvements	\$2,300,000						
3	Variable Air Volume (VAV) Box Replacement	\$1,900,000		\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
	21 - Field and Runway							
2	30L Deicing Pad Reconstruction		\$12,000,000		\$15,000,000			
2	30L Deicing Pad Expansion					\$20,000,000		
5	30L EMAS Replacement		\$19,000,000					
2	Airfield Snow Melter Replacement/Upgrades	\$1,800,000	\$1,800,000	\$1,800,000	\$2,000,000	\$2,000,000		
2	Bituminous Shoulder Reconstruction	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000			
2	Concourse G Apron Pavement Reconstruction	\$11,600,000	\$13,500,000			\$15,000,000	\$14,000,000	\$16,000,000
2	Runway 12L-30R Reconstruction							\$40,000,000
2	Taxiway A Pavement Reconstruction			\$4,200,000				
2	Taxiway B Pavement Reconstruction	\$2,400,000	\$7,500,000			\$6,000,000	\$5,000,000	\$8,000,000
2	Taxiway C Pavement Reconstruction						\$10,000,000	
2	Taxiway D Pavement Reconstruction	\$2,500,000						
2	Taxiway H Pavement Reconstruction				\$6,500,000			
2	Taxiway J Pavement Reconstruction				\$7,500,000			
2	Taxiway R Pavement Reconstruction			\$9,500,000				
2	Terminal 2 Apron Reconstruction				\$6,500,000	\$8,000,000	\$8,000,000	
	26 - Terminal Roads/Landside							
2	UPS Loop Pavement Reconstruction	\$2,000,000						
4	Variable Message Signs Replacement, Phase 3	\$2,500,000						

MAC Environmental Notes:

- 1) A project that has the potential for substantial environmental effects.
- 2) A reconstruction, rehabilitation, repair or replacement that does not physically alter the original size (an EAW or EIS is not required).
- 3) An electrical or mechanical device that monitors, indicates or controls existing conditions (an EAW or EIS is not required).
- 4) An electrical, mechanical or structural device and/or modification of an existing structure that does not significantly increase size or passenger capacity (an EAW or EIS is not required).
- 5) A project that consists of safety or security enhancements, facility maintenance, or facility upgrades (an EAW or EIS is not required).
- 6) A new, replacement or expansion project that does not have substantial effect (an EAW or EIS is not required).
- 7) Consultant fees only for planning, design, or environmental work.
- 8) Residential noise mitigation efforts that are designed to alleviate the impact of aircraft noise (an EAW or EIS is not required).
- 9) Projects associated with the Airport Foundation art program (an EAW or EIS is not required).
- 10) Projects involving the demolition of existing buildings (an EAW or EIS is not required).

NOTES	MSP End of Life/Replacement Projects Continued	2024	2025	2026	2027	2028	2029	2030
	31 – Parking							
5	Parking Ramp Snow Melter Replacement/Upgrades	\$1,350,000	\$1,350,000	\$1,400,000	\$1,400,000	\$1,400,000		
5	Parking Revenue Control System			\$4,200,000				
	36 - Terminal 2							
5	Terminal 2 Recarpeting Program		\$150,000					
	39 – Public Areas/Roads							
2	East 62nd Street Reconstruction				\$4,100,000			
2	East 70th Street Reconstruction	\$2,400,000						
2	Post Road Reconstruction Project			\$5,000,000				
	56 – Trades/Maintenance Buildings							
6	MSP Liquid Deicer Storage Facility	\$17,700,000						
	70 – General Office/Administration							
3	GO Building Variable Air Volume (VAV) Replacement and Upgrade		\$2,000,000					
	MSP End of Life/Replacement Projects Subtotal	\$59,575,000	\$72,350,000	\$39,100,000	\$776,000,000	\$364,400,000	\$49,000,000	\$326,000,000
	MSP IT Projects							
	10 - Terminal 1							
4	Concourse C and G Digital Directory Replacement	\$200,000						
4	MAC Technology Upgrades	\$2,200,000	\$12,800,000	\$14,000,000	\$13,000,000	\$11,000,000	\$11,000,000	\$12,000,000
5	Telecom Room Equipment Continuity (TREC)	\$1,510,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000
	12 - Federal Inspection Station (FIS)							
5	Customs and Border Protection Infrastructure	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
	36 - Terminal 2							
4	Upgrade and modernize Terminal 2 Kiosks		\$1,000,000					
	36 - Hangers and Other Buildings							
5	Multiple Points of Entry Facility			\$5,000,000	\$5,000,000	\$5,000,000		
	63 - Police							
5	Badging and Door Access (SAACS/ProWatch) Modernization			\$2,100,000				
5	Card Access Modifications	\$2,500,000		\$2,800,000		\$2,500,000		
5	Public Safety Land Mobile Radio System Solutions	\$500,000	\$1,000,000					
5	Public Safety Video (IVISN) Modernization		\$1,100,000	\$1,000,000	\$1,000,000			
	MSP IT Projects Subtotal	\$7,910,000	\$18,650,000	\$27,650,000	\$21,750,000	\$21,250,000	\$13,750,000	\$14,750,000

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- 4) An electrical, mechanical or structural device and/or modification of an existing structure that does not significantly increase size or passenger capacity (an EAW or EIS is not required).
- 5) A project that consists of safety or security enhancements, facility maintenance, or facility upgrades (an EAW or EIS is not required).
- 6) A new, replacement or expansion project that does not have substantial effect (an EAW or EIS is not required).
- 7) Consultant fees only for planning, design, or environmental work.
- 8) Residential noise mitigation efforts that are designed to alleviate the impact of aircraft noise (an EAW or EIS is not required).
- 9) Projects associated with the Airport Foundation art program (an EAW or EIS is not required).
- 10) Projects involving the demolition of existing buildings (an EAW or EIS is not required).

NOTES	MSP Long Term Comprehensive Plan Projects	2024	2025	2026	2027	2028	2029	2030
	10 - Terminal 1							
1	Baggage Claim/Ticket Lobby Operational Improvements	\$25,000,000						
6	Checkpoint Expansion						\$11,000,000	
1	Concourse G Infill – Pod 2-3	\$285,000,000						
1	D-Pod Outbound Baggage System				\$15,000,000			
7	MSP Airport Layout Plan		\$1,000,000					
7	MSP Environmental Review		\$2,000,000					
7	MSP Long Term Plan						\$3,000,000	
	21 - Field and Runway							
5	MSP Obstruction Removals			\$1,000,000		\$1,000,000		
1	Runway 30R Parallel Taxiway				\$12,000,000	\$10,000,000	\$14,000,000	
	36 - Terminal 2							
7	Long Term Plan Projects (fees)	\$1,000,000						
1	Terminal 2 North Gate Expansion	\$240,000,000						
6	Terminal 2 H1-H2 Apron and Building Modifications	\$30,000,000						
1	Terminal 2 South Expansion Enabling Work		\$160,000,000					
	MSP Long Term Comprehensive Plan Projects Subtotal	\$581,000,000	\$163,000,000	\$1,000,000	\$27,000,000	\$11,000,000	\$28,000,000	\$0

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- 9) Projects associated with the Airport Foundation art program (an EAW or EIS is not required).
- 10) Projects involving the demolition of existing buildings (an EAW or EIS is not required).



NOTES	MSP Maintenance/Facility Upgrade Projects	2024	2025	2026	2027	2028	2029	2030
	10 - Terminal 1							
5	ADO Office Expansion	\$4,000,000						
9	Art Display Areas	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
9	Arts Master Plan	\$860,000	\$610,000	\$1,610,000	\$610,000	\$610,000	\$600,000	\$600,000
4	Concourse A Heating System Upgrade	\$11,000,000						
5	Delivery Node Redevelopment	\$2,300,000	\$2,700,000	\$7,800,000	\$4,320,000	\$5,000,000		
5	F/G Connector & Skyclub Repairs and Improvements		\$1,100,000					
2	Folded Plate Repairs		\$43,400,000					
5	Lavatory Buildings Rehabilitation	\$4,400,000						
4	Lighting Infrastructure Technology and Equipment (LITE)	\$1,500,000	\$2,550,000	\$1,500,000	\$2,550,000	\$1,500,000	\$2,200,000	\$3,000,000
5	LRT Station Updates		\$1,600,000					
5	Main Mall Modernization					\$3,500,000	\$3,500,000	
5	Restroom Upgrade Program	\$2,295,000	\$2,400,000	\$3,200,000	\$2,650,000	\$2,050,000	\$2,050,000	\$2,050,000
4	Steam System Upgrade Program	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000		
4	Terminal 1 Information Booth Replacements		\$850,000					
4	Terminal 1 Curbside Canopy Repairs and Lighting Upgrades	\$350,000						
6	Terminal 1 Employee Breakroom		\$450,000					
4	Terminal 1 Tram Maintenance	\$1,000,000						
2	Terminal 1 Tug Drive Heater Replacement	\$2,000,000						
5	Terminal 1 Tug Drive Waterproofing	\$2,900,000	\$2,900,000	\$2,900,000	\$2,900,000			
5	Terminal 1 Sand Dump Station		\$300,000					
4	Way-Finding Sign Backlighting Replacement	\$1,000,000	\$3,000,000		\$2,000,000		\$2,000,000	
	12 - Federal Inspection Station (FIS)							
5	FIS Facility Upgrades	\$2,175,000		\$845,000				
	13 - Energy Management Center							
4	Building Management (IMACS) Replacement		\$800,000	\$3,400,000				
4	Chiller Plant Optimization	\$4,000,000						
4	Energy Savings Program		\$2,000,000		\$2,000,000			
4	Indoor Air Quality Monitoring System			\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
4	MAC Automation Infrastructure Program	\$5,300,000	\$2,300,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	
3	Steam Trap Monitoring System			\$3,000,000				
4	Victaulic Piping Replacement		\$19,000,000	\$4,000,000	\$2,200,000	\$2,300,000	\$2,350,000	

MAC Environmental Notes:

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- 5) A project that consists of safety or security enhancements, facility maintenance, or facility upgrades (an EAW or EIS is not required).
- 6) A new, replacement or expansion project that does not have substantial effect (an EAW or EIS is not required).
- 7) Consultant fees only for planning, design, or environmental work.
- 8) Residential noise mitigation efforts that are designed to alleviate the impact of aircraft noise (an EAW or EIS is not required).
- 9) Projects associated with the Airport Foundation art program (an EAW or EIS is not required).
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NOTES	MSP Maintenance/Facility Upgrade Projects, continued	2024	2025	2026	2027	2028	2029	2030
	21 – Field and Runway							
5	Anti-Climb Fencing and Lighting	\$1,000,000						
4	Apron Lighting LED Upgrade	\$5,000,000	\$1,000,000	\$3,000,000	\$1,000,000	\$1,000,000		
6	Field Maintenance Building Efficiency Program		\$53,000,000		\$105,000,000		\$46,000,000	
5	GBAS = SLS-4000 Installation		\$7,000,000					
4	Runway 12L Deice Pad Reconfiguration	\$700,000						
4	Runway LED Lighting Upgrade				\$3,000,000			
4	Taxiways B & Q Islands	\$800,000						
2	Terminal 2 Glycol Lift Station/Forcemain		\$1,500,000					
4	Tunnel Lighting LED Upgrade	\$1,100,000	\$1,000,000	\$900,000	\$400,000	\$1,200,000		
	31 – Parking							
4	Electric Vehicle Charging Network Expansion		\$1,500,000	\$850,000	\$850,000	\$1,500,000	\$1,500,000	\$1,500,000
3	Parking Guidance System		\$6,500,000					
2	Red/Blue Parking Levels 2 & 3				\$10,000,000			
4	Terminal 2 Landside Office Remodel		\$250,000					
	36 - Terminal 2							
5	Ramp Information Display System (RIDS)		\$3,600,000					
5	Terminal 2 Baggage Handling System		\$410,000					
2	Terminal 2 Gate Area Passenger Amenities		\$1,000,000					
2	Terminal 2 Gate Desk/Podium Replacement				\$450,000			
6	Terminal 2 Ground Transportation Waiting Area Expansion		\$400,000					
2	Terminal 2 MUFIDS/EVIDS Millwork Upgrades		\$350,000					
5	Terminal 2 Skyway to LRT Flooring Installation				\$1,000,000			
5	Terminal Door Locks and Emergency Egress Upgrades	\$400,000						
	39 - Public Areas/Roads							
2	34 th Avenue Bus Area Reconstruction	\$800,000						
2	34 th Avenue Reconstruction			\$8,200,000	\$8,200,000			
2	34 th Avenue Sanitary Sewer Replacement			\$2,200,000				
3	34th Avenue Traffic Control Improvements	\$200,000						
2	Diverging Diamond Intersection Rehabilitation				\$380,000			
2	Terminal 1 Inbound Roadway Median Improvements		\$3,300,000					
4	Tunnel Fan Replacement	\$1,700,000		\$6,800,000				

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NOTES	MSP Maintenance/Facility Upgrade Projects, continued	2024	2025	2026	2027	2028	2029	2030
	46 - Hangars and Other Buildings							
7	Campus Out Building Study		\$300,000					
6	MAC Storage Facility	\$34,000,000						
6	Safety and Security Center	\$165,000,000						
	56 - Trades/Maintenance Buildings							
6	Trades Building Rehabilitation and Addition			\$25,000,000				
	63 - Police							
5	Emergency Communications Center Updates	\$150,000						
5	Perimeter Fence Intrusion Detection System		\$1,000,000					
5	Perimeter Gate Security Improvements		\$6,500,000	\$6,500,000				
5	Police Department Improvements at Terminals 1 & 2					\$1,500,000		
5	Police Department Remote Threat Isolation and Training Building				\$15,500,000			
5	Public Safety Modifications		\$1,000,000		\$850,000		\$850,000	
2	Squad Parking Modifications			\$140,000				
	66 - Fire							
5	ARFF 1 Garage Door Replacement				\$1,500,000			
5	Campus Fire Protection		\$10,000,000			\$10,000,000		
	70 - General Office/Administration							
5	Digital Signage In/At the GO			\$300,000				
5	Go Workspace Improvements	\$250,000						
	76 - Environment							
5	Firefighting Foam System Conversation	\$3,000,000						
4	Glycol Sewer & Storm Sewer Inspection/Rehabilitation	\$1,700,000	\$600,000				\$2,000,000	\$1,000,000
4	Ground Service Equipment (GSE) Electrical Charging Stations	\$500,000						
4	Infield Fueling Facility Secondary Containment		\$400,000					
4	Lift Station at Ponds 1 and 2		\$2,300,000					
4	Maintenance Campus Infiltration Pond	\$13,100,000						
5	MSP Pond 3 / 494 Pond Sediment Removal and Repairs		\$5,500,000					
4	Runway 12R-30L Glycol Forcemain Environmental Improvements	\$1,700,000						
2	Glycol Tank Roof Repairs					\$700,000		
4	Photovoltaic System Improvements	\$3,100,000						
	MSP Maintenance/Facility Upgrade Projects Subtotal	\$281,130,000	\$196,220,000	\$87,395,000	\$172,585,000	\$36,110,000	\$66,700,000	\$23,400,000

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NOTES	MSP Noise Mitigation Consent Decree Amendment	2024	2025	2026	2027	2028	2029	2030
8	MSP Noise Mitigation Consent Decree Amendment	\$1,000,000	\$500,000					
MSP Ongoing Maintenance Programs								
10 - Terminal 1								
4	Air Handling Unit Replacement	\$5,100,000	\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000	\$13,000,000
4	Baggage System Upgrades	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
4	Concourse G Rehabilitation	\$10,000,000						
4	Conveyance System Upgrades		\$3,000,000					
4	Electrical Infrastructure Program (EIP)	\$2,500,000		\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$3,000,000
4	Electrical Substation Replacement	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000			
4	Emergency Power Upgrades	\$2,500,000		\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$3,000,000
4	Plumbing Infrastructure Upgrade Program	\$700,000	\$700,000	\$700,000	\$700,000	\$700,000	\$700,000	\$800,000
5	Terminal Building Remediation Program	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000
4	Terminal Miscellaneous Modifications	\$2,600,000	\$2,600,000	\$2,600,000	\$2,600,000	\$3,100,000	\$3,100,000	\$3,100,000
13 - Energy Management Center								
4	EMC Life Safety Infrastructure Program	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000
4	EMC Plant Upgrades (T1 & T2)	\$2,100,000	\$2,150,000	\$2,200,000	\$2,300,000	\$2,400,000	\$2,500,000	
21 - Field and Runway								
2	Airside Electrical Construction	\$2,500,000	\$5,100,000	\$5,100,000	\$2,000,000	\$2,000,000	\$2,000,000	
2	Airside Roadway Pavement Restoration	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$3,600,000
2	Miscellaneous Airfield Construction	\$3,500,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	
2	Pavement Joint Sealing/Repair	\$800,000	\$800,000	\$800,000	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000
26 - Terminal Roads/Landside								
2	Tunnel/Bridge Inspections	\$120,000	\$120,000	\$120,000	\$120,000	\$150,000	\$150,000	\$150,000
5	Tunnel-Bridge Miscellaneous Modifications		\$1,000,000		\$1,000,000		\$1,000,000	
31 - Parking								
2	Parking Structure Rehabilitation	\$5,900,000	\$4,750,000	\$5,650,000	\$5,000,000	\$6,000,000	\$5,175,000	\$6,350,000
4	Terminal 2 Parking Facility Watermain Improvements	\$670,000						

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NOTES	MSP Ongoing Maintenance Programs, continued	2024	2025	2026	2027	2028	2029	2030
	39 - Public Areas/Roads							
2	Concrete Joint Repair	\$1,000,000	\$300,000	\$400,000	\$1,200,000	\$2,900,000	\$750,000	
2	Landside Pavement Rehabilitation	\$500,000	\$500,000		\$500,000	\$600,000	\$600,000	\$600,000
2	Landside Utility Rehabilitation	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	\$750,000	
2	Roadway Fixture Refurbishment	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$200,000
	46 - Hangars and Other Buildings							
5	Campus Building Rehabilitation Program	\$1,500,000	\$1,500,000		\$1,500,000		\$1,500,000	
2	Campus Parking Lot Reconstructions	\$3,075,000				\$3,075,000		
10	End of Life Campus Building Demolition		\$400,000	\$3,700,000				
2	MSP Campus Building Roof Replacements	\$6,100,000	\$12,500,000	\$10,200,000	\$1,000,000	\$1,000,000	\$1,000,000	\$2,000,000
	56 - Trades/Maintenance Buildings							
4	North Field Maintenance Mechanical Infrastructure Project			\$5,000,000				
4	Sump Pump Controls	\$4,000,000	\$4,000,000	\$3,500,000				
	70 - General Office/Administration							
5	GO Building Improvements	\$500,000		\$500,000		\$500,000		\$500,000
	MSP Ongoing Maintenance Programs Subtotal	\$82,165,000	\$79,820,000	\$89,970,000	\$66,420,000	\$60,925,000	\$56,925,000	\$55,200,000
	MSP Tenant Projects							
	10 - Terminal 1							
2	Concessions Upgrades/Revenue Development	\$220,000	\$224,000	\$228,800	\$234,600	\$241,500	\$250,000	\$260,000
5	Concourse and Gatehold Modernization	\$85,600,000	\$73,100,000					
6	Elevator and Concourse Improvements - Relocated United Club					\$1,000,000		
4	Terminal 1 Pre-Conditioned Air (PCA)	\$2,500,000						
	36 - Terminal 2							
6	Terminal 2 Concessions Development	\$2,000,000						
7	Terminal 2 Multipurpose Facility study	\$300,000						
	39 - Public Areas / Roads							
2	Tenant Parking Lot Reconstruction		\$2,900,000					
	46 - Hangars and Other Buildings							
6	Ground Service Equipment (GSE) Maintenance Facility					\$2,000,000		
	MSP Tenant Projects Subtotal	\$90,620,000	\$76,224,000	\$228,8000	\$234,600	\$3,241,500	\$250,000	\$260,000

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NOTES	Reliever Airports Long Term Comprehensive Plan (LTCP) Projects	2024	2025	2026	2027	2028	2029	2030
	81 - St. Paul							
7	STP Airport Layout Plan	\$500,000						
7	STP Environmental Review			\$800,000				
7	STP Long Term Comprehensive Plan	\$800,000						
	82 - Lake Elmo							
7	21D Airport Layout Plan		\$100,000				\$500,000	
7	21D Long Term Comp Plan						\$800,000	
	83 - Airlake							
7	LVN Airport Layout Plan			\$100,000			\$500,000	
7	LVN Long Term Comp Plan						\$800,000	
1	LVN Runway 12-30 Improvements			\$4,400,000				
	84 - Flying Cloud							
7	FCM Environmental Review		\$800,000					
10	FCM Purchase and Demolition of Hangars	\$1,300,000						
6	FCM South Building Area Utilities			\$800,000				
	85 - Crystal							
7	MIC Airport Layout Plan	\$100,000				\$500,000		
7	MIC Environmental Review							\$800,000
7	MIC Long Term Comp Plan					\$800,000		
	86 - Anoka County - Blaine							
7	ANE Airport Layout Plan		\$500,000					
6	ANE Building Area Development - Xylite St. Relocation					\$1,000,000		
7	ANE Environmental Review				\$800,000			
7	ANE Long Term Comprehensive Plan Update		\$800,000					
	Reliever Airports LTCP Projects Subtotal	\$2,700,000	\$2,200,000	\$6,100,000	\$800,000	\$2,300,000	\$2,600,000	\$800,000

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NOTES	Reliever Airports Maintenance/Facility Upgrade Projects	2024	2025	2026	2027	2028	2029	2030
	80 - Reliever Airports							
5	Reliever Airports Security Fencing, Gates and Lighting	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
4	Reliever Indoor Air Quality Project				\$1,400,000			
4	Relievers Building Miscellaneous Modifications	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
5	Relievers Obstruction Removals		\$300,000		\$300,000		\$300,000	
2	Relievers Pavement Rehabilitation Miscellaneous Modifications	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
6	Relievers Used Oil Sheds a& Tanks		\$550,000					
	81 - St. Paul							
6	STP Airport Perimeter Roads		\$500,000					
2	STP Airport Road and Eaton Street Retaining Wall					\$700,000		
6	STP Cold Equipment Storage Building			\$750,000				
6	STP Customs and Border Protection General Aviation Facility	\$4,500,000						
6	STP Equipment Storage Building and Employee Crew Rooms					\$4,000,000		
4	STP Infrastructure Replacement		\$1,200,000					
3	STP Intelligent Monitoring and Control System (IMACS) Expansion				\$2,500,000			
4	STP LED Edge Lighting Upgrades	\$1,200,000						
5	STP MAC Building Improvements		\$200,000		\$200,000		\$200,000	
2	STP Pavement Rehabilitation-Taxilanes/Tower Road			\$750,000				
2	STP Runway 13-31 Pavement Reconstruction		\$5,000,000					
5	STP Runway 14-32 EMAS Replacement				\$10,000,000			
5	STP Runway 14-32 Crack Sealing	\$250,000						
2	STP Runway 14-32 Reconstruction	\$10,000,000						
2	STP Storm Sewer Improvements				\$2,000,000			
2	STP Taxiway B Rehabilitation		\$1,100,000					
2	STP Taxiway Lima Rehabilitation				\$200,000			
	82 - Lake Elmo							
3	21D AWOS Replacement		\$200,000					
3	21D Intelligent Monitoring and Control System (IMACS)					\$3,800,000		
6	21D Materials Storage Building	\$500,000						
2	21D North Building Area Pavement Rehabilitation		\$900,000					
2	21D North Service Roads Rehabilitation	\$700,000						
2	21D Northside Taxiway Reconstruction		\$600,000				\$600,000	
1	21D Runway 04-22 Pavement Rehabilitation		\$4,000,000					
2	21D Taxiway Echo Edge Lighting			\$600,000				

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NOTES	Reliever Airports Maintenance/Facility Upgrade Projects, continued	2024	2025	2026	2027	2028	2029	2030
	83 – Airlake							
3	LVN AWOS Replacement		\$100,000					
2	LVN Existing Runway 12-30 Reconstruction			\$3,500,000				
3	LVN Intelligent Monitoring and Control System (IMACS)						\$1,300,000	
2	LVN LED Edge Lighting	\$200,000						
5	LVN Maintenance Building Renovation	\$1,250,000						
2	LVN North Service Road Pavement Rehabilitation				\$500,000			
2	LVN North Taxilanes Pavement Rehabilitation				\$1,250,000			
5	LVN Perimeter Fencing and Gates				\$4,000,000			
6	LVN South Building Area Utilities and Taxilanes			\$1,300,000				
2	LVN Taxiway Bravo Pavement Rehabilitation			\$600,000				
	84 – Flying Cloud							
2	FCM Airport Access Roads and Tango Lane	\$600,000						
2	FCM Airport Access Roads Pavement Rehabilitation				\$500,000	\$500,000	\$500,000	
6	FCM Electrical Vault Modifications				\$500,000			
2	FCM Executive Aviation/MAC Maintenance Apron	\$950,000						
5	FCM Gate Replacements		\$500,000					
2	FCM Infrastructure Replacement		\$1,750,000					
3	FCM Intelligent Monitoring and Control System (IMACS)					\$2,500,000		
5	FCM MAC Building Improvements			\$600,000				
2	FCM Northside Access Road from Bravo to November Lane		\$900,000					
2	FCM Runway 10R-28L Crack Sealing	\$200,000						
2	FCM Runway 10R-28L Pavement Rehabilitation				\$2,700,000			
2	FCM Runway 18-36 Pavement Rehabilitation						\$700,000	
6	FCM Spring Lane Extension and Taxilane Connector				\$700,000			
5	FCM Tower Equipment for Airfield Lighting and Utilities		\$1,000,000					
2	FCM Underground Fuel Storage Tank Replacement	\$500,000						
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85 -Crystal								
4	MIC Existing Hangar Revitalization				\$800,000			
4	MIC Gate Replacement				\$800,000			
3	MIC Intelligent Monitoring and Control System (IMACS)						\$1,300,000	
2	MIC Runway 6L-24R Pavement Rehabilitation					\$2,500,000		
2	MIC Runway 6L-24R and Taxiway Gulf Pavement Rehabilitation		\$250,000					
5	MIC Service Road Pavement and Fencing					\$600,000		
2	MIC Stormwater Monitoring Location Drainage Repair		\$100,000					
2	MIC Taxilanes Pavement Rehabilitation		\$600,000			\$600,000		
2	MIC Taxiway Alpha Pavement Reconstruction						\$1,200,000	
2	MIC Tower Parking Lot Reconstruction		\$1,500,000					
2	MIC Underground Fuel Storage Tank Replacement	\$500,000						
86 - Anoka County - Blaine								
2	ANE Airport Rd and GA Blvd Pavement Rehabilitation	\$2,100,000						
4	ANE Electrical Vault Improvements		\$750,000					
6	ANE Equipment Storage and Maintenance Building	\$5,000,000						
5	ANE Gate Controller Upgrades				\$400,000			
3	ANE Intelligent Monitoring and Control System (IMACS)						\$1,300,000	
2	ANE Runway 18-36 Pavement Rehabilitation		\$3,800,000					
2	ANE Runway 9-27 Pavement Rehabilitation					\$3,750,000		
2	ANE Taxiway B Pavement Rehabilitation						\$1,400,000	
2	ANE Underground Fuel Storage Tank Replacement	\$500,000						
Reliever Airports Maintenance/Facility Upgrade Projects Subtotal		\$29,700,000	\$26,700,000	\$11,000,000	\$33,850,000	\$14,950,000	\$8,400,000	\$900,000
MSP Subtotal		\$1,103,400,000	\$606,764,000	\$243,343,800	\$1,063,989,600	\$496,926,500	\$214,675,000	\$419,610,000
Reliever Subtotal		\$32,400,000	\$28,900,000	\$17,100,000	\$34,650,000	\$17,250,000	\$11,000,000	\$1,700,000
Total		\$1,135,800,000	\$635,664,000	\$260,443,800	\$1,098,639,600	\$514,176,500	\$225,675,000	\$421,310,000

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- 3) An electrical or mechanical device that monitors, indicates or controls existing conditions (an EAW or EIS is not required).
- 4) An electrical, mechanical or structural device and/or modification of an existing structure that does not significantly increase size or passenger capacity (an EAW or EIS is not required).
- 5) A project that consists of safety or security enhancements, facility maintenance, or facility upgrades (an EAW or EIS is not required).
- 6) A new, replacement or expansion project that does not have substantial effect (an EAW or EIS is not required).
- 7) Consultant fees only for planning, design, or environmental work.
- 8) Residential noise mitigation efforts that are designed to alleviate the impact of aircraft noise (an EAW or EIS is not required).
- 9) Projects associated with the Airport Foundation art program (an EAW or EIS is not required).
- 10) Projects involving the demolition of existing buildings (an EAW or EIS is not required).