

Action Transmittal

Transportation Advisory Board



Committee Meeting Date: December 20, 2023

Date: December 11, 2023

Action Transmittal: 2023-53

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

To: Transportation Advisory Board

From: Technical Advisory Committee

Prepared By: Joe Widing, Senior Transportation Planner, 651-602-1822

Requested Action

The Metropolitan Airports Commission (MAC) requests that the Metropolitan Council review the MAC's 2024-2030 Capital Improvement Program as required by Minnesota Statutes 473.181 and 473.621.

Recommended Motion

That the TAC Planning Committee recommend that the Metropolitan Council:

- find that the Metropolitan Airport Commission's CIP process included adequate public participation;
- approve the proposed 2024 CIP runway rehabilitation and extension project at the Lake Elmo Airport which meets the dollar threshold and significant effects criteria for Council approval; and
- find the remaining CIP projects to be consistent with the Transportation Policy Plan and forward any additional project comments to the Metropolitan Council for its consideration.

Background and Purpose

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.

To allow letting of projects early enough for construction to start in the spring, the Council has agreed to use the draft CIP document released in September to expedite the review. The MAC will take action on December 18th to adopt the final 2024-2030 CIP and any changes from the draft will be incorporated into the report that goes forward to the Met Council in early 2024. Any changes identified after the MAC action will be reported to the Transportation Advisory Board. Any comments provided by the TAC and TAB will also be included for consideration with the final review report submitted by staff for Council action. If any projects shift, they will be reported to TAC/TAB.

Relationship to Regional Policy

The Metropolitan Council is required by state law to annually review MAC’s CIP to ensure consistency of proposed projects with regional plans. Staff has considered the CIPs relationship to the Transportation Policy Plan and has found it is consistent with the Plan and the aviation element of the Plan. Although state law doesn’t require TAC/TAB to review the CIP, staff traditionally has sought TAC/TAB comments in the review process.

Staff Analysis

Analysis confirms that 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 6th, at 10:30 AM at the Planning, Development and Environment Committee meeting at the MSP Conference Room.

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 G Apron Pavement Reconstruction	\$11,600,000
MSP	End of Life/ Replacement Projects	MSP Liquid Deicer Storage Facility	\$11,200,000
MSP	IT Projects	MAC Technology Upgrades	\$10,000,000
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	\$320,000,000
MSP	Long Term Comprehensive Plan Projects	Terminal 2 North Gate Expansion	\$237,000,000
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	\$163,000,000
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	\$5,500,000
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	Intelligent Monitoring and Control System Expansion	\$2,250,000
FCM	Reliever Airports Maintenance/Facility Upgrade Projects	Intelligent Monitoring and Control System	\$2,250,000

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



In addition to the above projects, there is a single project which meets both the dollar threshold and the “other significant effects” criteria which triggers the need for project approval by the Council. The runway rehabilitation project at Lake Elmo for the crosswind runway 04-22 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. The project also includes the addition of runway edge lighting. This project is included in the Lake Elmo Airport Long Term Comprehensive Plan (LTCP) approved in 2016 and Environmental Assessment (EA)/Environmental Assessment Worksheet (EAW) approved in 2018. The EA/EAW received a finding of no significant impact by the Federal Aviation Administration (FAA) and was adopted by the MAC in October 2018. This project is consistent with previous planning efforts and environmental approvals and is consistent with the Transportation Policy Plan. The TPP states that the Lake Elmo Airport is classified as a reliever airport under the federal system, an intermediate small airport under the state system, and minor airport under the regional system. This project will not change any of these classifications.

Airport	Category	Project	Cost
21D	Reliever Airports Maintenance/Facility Upgrade Projects	Runway 04-22 Pavement Rehabilitation	\$4,000,000

All projects in the 2024 CIP appear consistent with the Transportation Policy Plan (TPP). Many of the MSP projects were evaluated in the 2020 EA for MSP that received a Finding of No Significant Impact (FONSI) in March of 2013 from the Federal Aviation Administration. Initial analysis of the future years (2025-2030) of the CIP shows that many projects will meet the dollar threshold of review but only one project will meet the significant effects criteria. The Airlake Airport Runway 12-30 Improvements is a runway reconstruction and extension project that is scheduled for 2025 implementation. This project has been delayed multiple years but is currently in the environmental review phase and is expected to be formally reviewed and approved during next year’s CIP review. After the approval of the MSP LTCP, new projects from this effort may also begin to appear in next year’s CIP and beyond. 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 \$320,000,000 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 \$237,000,000 in 2024 and will expand Terminal 2 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 \$163,000,000 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 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.



Committee Comments and Action

At its November 9, 2023, meeting, the TAC Planning Committee recommend acceptance of the staff analysis of MAC's 2023-2029 CIP and forward these comments to the Metropolitan Council for its consideration.

At its December 6, 2023, meeting, the Technical Advisory Committee recommended acceptance of the staff analysis of MAC's 2023-2029 CIP and forward these comments to the Metropolitan Council for its consideration.

Routing

To	Action Requested	Date Completed (Scheduled)
TAC Planning Committee	Review & Recommend	November 9, 2023
Technical Advisory Committee	Review & Recommend	December 6, 2023
Transportation Advisory Board	Review & Recommend	<i>December 20, 2023</i>
Metropolitan Council Transportation Committee	Review & Recommend	<i>January 8, 2024</i>
Metropolitan Council	Review & Adopt	<i>January 24, 2024</i>

MAC 2024 – 2030 Capital Improvement Program

The MAC 2024 – 2030 Capital Improvement Program material included in this memorandum reflects the actions of the Metropolitan Airports Commission's Planning, Development and Environment (PD&E) Committee on Sep. 5, 2023. Final action by the Commission is expected at their December 19, 2023 meeting. Any changes made on December 4th PD&E Committee Meeting that may affect the CIP review would be reported at the December 21st Transportation Advisory Board 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 is one project which meets the statutory requirements, the Lake Elmo 04-22 runway rehabilitation and extension project.
- 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
 - Lake Elmo Airport Runway 04-22 rehabilitation and extension
- 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 relievers.



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	2025 LTCP Approved in 2010, update anticipated to begin in 2024		Customs and Border Protection general aviation facility, Intelligent Monitoring and Control System expansion	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flying Cloud Airport	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.	Intelligent Monitoring and Control System	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crystal Airport	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	2025 LTCP Approved in 2010, update anticipated to begin in 2025		None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lake Elmo Airport	2035 LTCP Approved 2016	FAA issues Finding of No Significant Impact for EA in Aug 2018	Runway 04-22 pavement rehabilitation and extension	N/A	N/A	Runway 04-22 will be extended by 254 ft to 2,750 ft	N/A	N/A	N/A	N/A
Airlake Airport	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
Lake Elmo Airport Runway 04-22 rehabilitation and extension	Lake Elmo Airport 2018 EA/EAW	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	\$2,200,000	\$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		\$11,500,000		\$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			\$35,000,000				
2	Taxiway A Pavement Reconstruction					\$4,500,000		
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				
	26 - Terminal Roads/Landside							
2	Terminal 1 Access Roadway Bridge Rehabilitation							
2	UPS Loop Pavement Reconstruction	\$2,000,000						
4	Variable Message Signs Replacement, Phase 3	\$1,600,000						
	31 - Parking							
5	Parking Ramp Snow Melter Replacement/Upgrades	\$1,350,000	\$1,350,000	\$1,400,000	\$1,400,000	\$1,400,000		
	36 - Terminal 2							
4	Terminal 2 Pre-conditioned Air (PCA)							
5	Terminal 2 Recarpeting Program	\$1,300,000	\$150,000					
4	Terminal 2 Ticket Counter/Insert Replacement		\$730,000					

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
	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	\$11,200,000						
	70 – General Office/Administration							
3	GO Building Variable Air Volume (VAV) Replacement and Upgrade		\$2,000,000					
	MSP End of Life/Replacement Projects Subtotal	\$48,175,000	\$75,080,000	\$365,700,000	\$769,500,000	\$310,900,000	\$41,000,000	\$36,000,000
	MSP IT Projects							
	10 - Terminal 1							
4	Concourse C and G Digital Directory Replacement	\$200,000						
4	MAC Technology Upgrades	\$10,000,000	\$10,000,000	\$11,000,000	\$11,000,000	\$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
	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	\$14,710,000	\$20,850,000	\$24,650,000	\$19,750,000	16,250,000	\$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	\$320,000,000						
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	\$237,000,000						
	MSP Long Term Comprehensive Plan Projects Subtotal	\$583,000,000	\$3,000,000	\$13,000,000	\$25,000,000	\$15,000,000	\$14,000,000	\$0

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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	\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
9	Arts Master Plan	\$1,260,000	\$1,110,000	\$1,810,000	\$1,685,000	\$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			
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		\$4,200,000					
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	

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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		\$9,200,000					
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					
7	Terminal 2 Lobby Passenger Flow Program	\$1,000,000						
2	Terminal 2 MUFIDS/EVIDS Millwork Upgrades		\$350,000					
5	Terminal 2 Skyway to LRT Flooring Installation		\$800,000					
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	\$4,700,000	\$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	\$163,000,000						
	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	\$283,530,000	\$232,120,000	\$77,395,000	\$147,160,000	\$36,100,000	\$66,700,000	\$22,800,000

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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	\$2,500,000	\$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
2	Terminal 2 Apron Reconstruction				\$6,500,000	\$8,000,000	\$8,000,000	
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	\$5,500,000	\$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	\$81,765,000	\$81,920,000	\$85,370,000	\$72,920,000	\$68,925,000	\$64,975,000	\$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					
	ANE Environmental Review				\$800,000			
7	ANE Long Term Comprehensive Plan Update		\$800,000					
	Reliever Airports LTCP Projects Subtotal	\$2,700,000	\$7,600,000	\$1,700,000	\$800,000	\$1,300,000	\$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	\$2,250,000						
4	STP LED Edge Lighting Upgrades	\$1,500,000						
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		\$5,000,000	\$5,000,000				
2	STP Storm Sewer Improvements	\$1,500,000						
2	STP Taxiway B Rehabilitation		\$800,000					
2	STP Taxiway Lima Rehabilitation				\$200,000			
	82 - Lake Elmo							
3	21D AWOS Replacement		\$200,000					
3	21D Intelligent Monitoring and Control System (IMACS)		\$3,500,000					
6	21D Materials Storage Building	\$500,000						
2	21D North Building Area Pavement Rehabilitation	\$900,000						
2	21D North Service Roads Rehabilitation		\$500,000					
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				
	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)			\$1,150,000				
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					

NOTES	Reliever Airports Maintenance/Facility Upgrade Projects	2024	2025	2026	2027	2028	2029	2030
	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	\$700,000						
5	FCM Gate Replacements		\$500,000					
2	FCM Infrastructure Replacement		\$1,750,000					
3	FCM Intelligent Monitoring and Control System (IMACS)	\$2,250,000						
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	\$600,000						
5	FCM Tower Equipment for Airfield Lighting and Utilities		\$1,000,000					
2	FCM Underground Fuel Storage Tank Replacement	\$500,000						
	85 -Crystal							
4	MIC Existing Hangar Revitalization			\$800,000				
4	MIC Gate Replacement			\$800,000				
3	MIC Intelligent Monitoring and Control System (IMACS)			\$1,150,000				
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	\$700,000	\$700,000	\$700,000				
4	ANE Electrical Vault Improvements		\$750,000					
6	ANE Equipment Storage and Maintenance Building	\$1,200,000						
5	ANE Gate Controller Upgrades			\$400,000				
3	ANE Intelligent Monitoring and Control System (IMACS)		\$1,150,000					
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						
6	ANE West Perimeter Road	\$1,800,000						
	Reliever Airports Maintenance/Facility Upgrade Projects Subtotal	\$27,100,000	\$36,450,000	\$18,700,000	\$22,350,000	\$9,850,000	\$5,800,000	\$900,000
	MSP Subtotal	\$1,102,800,000	\$489,694,000	\$566,343,800	\$1,034,564,600	\$450,416,500	\$200,675,000	\$129,010,000
	Reliever Subtotal	\$29,800,000	\$44,050,000	\$20,400,000	\$23,150,000	\$11,150,000	\$8,400,000	\$1,700,000
	Total	\$1,132,600,000	\$533,744,000	\$586,743,800	\$1,057,714,600	\$461,566,500	\$209,075,000	\$130,710,000

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