



Safety and Operations Committee

Board Information Item III – A

Maintenance Strategy & Long-Range Planning



Board Document

OVERVIEW			
PRESENTATION NAME	Maintenance Strategy & Long-Range Planning	DOCUMENT NO.	300141
ACTION OR INFORMATION	Information		
STRATEGIC TRANSFORMATION PLAN GOAL	Service excellence;		
RESOLUTION	No		
EXECUTIVE OWNER			
EXECUTIVE TEAM OWNER	Impastato, Theresa M.;		
ORGANIZATION	Infrastructure		
DOCUMENT INITIATOR	Shaun Goddard		
OTHER INFORMATION			
COMMITTEE	Safety and Operations Committee	COMMITTEE DATE	7/23/2026
PURPOSE/KEY HIGHLIGHTS	Staff will provide an overview of Metro's Maintenance Strategy and long-range planning approach for service adjustments that support critical maintenance activities and capital improvements across the Metro Rail system. This presentation outlines how Metro plans and coordinates maintenance and capital investment work to ensure the continued safety, reliability, and resiliency of the rail network. Staff will also discuss the key factors that inform service adjustment decisions, including customer impacts, community and regional events, operational requirements, and opportunities to maximize productivity and project delivery. As ridership patterns continue to evolve and weekend ridership		



Board Document

	grows across the system, Metro is adapting its approach to scheduling service adjustments. These refinements are designed to better balance the needs of customers with the imperative to maintain and modernize critical infrastructure, while minimizing disruption and improving the efficiency of maintenance and capital improvement activities.
DISCUSSION	This presentation provides an overview of Infrastructure's approach to asset stewardship, maintenance planning, and capital investment delivery. Maintaining and modernizing Metro's rail system often requires tracks to be taken out of service overnight, on weekends, or during extended shutdowns. These service adjustments are the result of months of planning and coordination across the organization to determine the optimal timing, duration, and scope of work. The planning process balances asset preservation, customer impacts, operational requirements, and regional events, while incorporating input from customers, jurisdictional partners, and key stakeholders. Our goal is to maximize productivity during each work window, minimize disruptions, and ensure the long-term reliability and resiliency of the Metro system.
INTERESTED PARTIES	N/A
RECOMMENDATION/NEXT STEPS	Staff will continue the planning process for the upcoming outages and continue to engage with internal and external partners on the upcoming outages.
FUNDING IMPACT	N/A

Maintenance Strategy & Long-Range Planning



Infrastructure

Washington Metropolitan Area Transit Authority

July 2026

Delivering Your Metro, the Way Forward

Focus
Today



Service Excellence

Deliver safe, reliable, convenient, accessible, and world-class service that customers can trust across all modes.

Objectives of Service Excellence Goal

- **Safety and Security**
- **Reliability**
- **Convenience**



Talented Teams

Attract, develop, and retain world-class talent where individuals feel valued, supported, and proud of their contribution.

Objectives of Talented Teams Goal

- **Recruitment and Retention**
- **Learning and Development**
- **Customer Service Mindset**



Financial & Organizational Efficiency

Steward public resources and efficiently allocate resources where they drive the most value, to ensure service delivery.

Objectives of Financial & Organizational Efficiency Goal

- **Financial Responsibility**
- **Organizational Efficiency**
- **Energy Management**

Maintenance Strategy

Maintenance Philosophy

Metro is committed to continually executing timely, schedule-driven asset management that provides a safe, reliable system for customers.

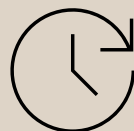
Customer Focused Outcomes



Proactive Predictive Maintenance



Continuous Improvement



Transformation & Innovation

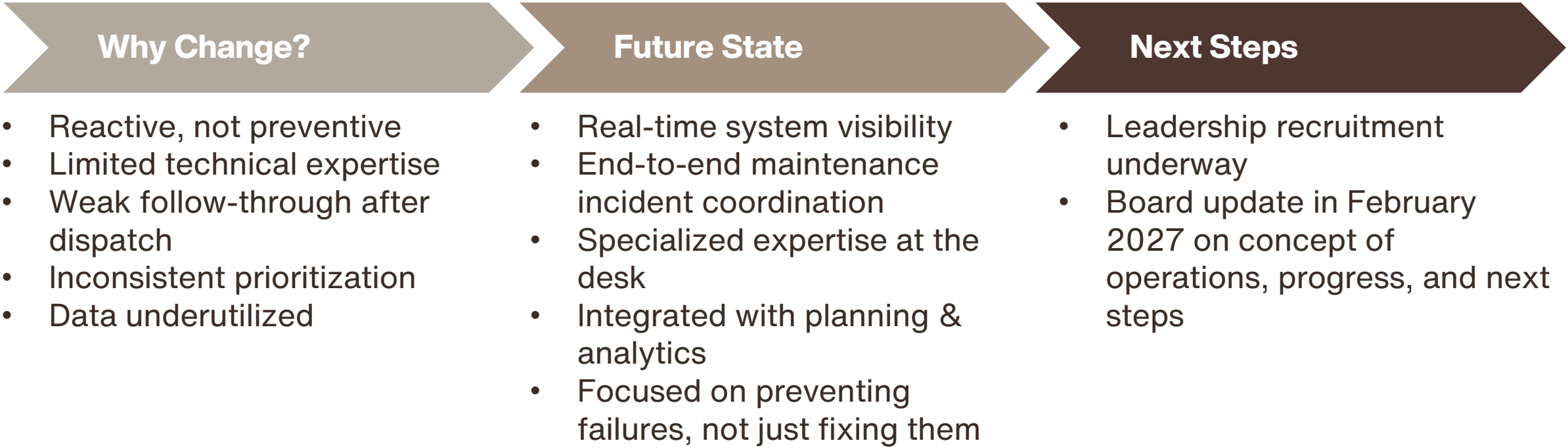


Executing Metro's Maintenance Philosophy

Customer-Focused Outcomes 	Continuous Improvement 	Proactive & Predictive Maintenance 	Transformation & Innovation 
Focus on highest-impact delays to improve service reliability Examples • Target top delay drivers (down track circuits, weather impacts) • Wrench time efficiency and effectiveness	Strengthen coordination through RSA planning and a Maintenance Center of Excellence Examples • Revamp the Maintenance Operations Center • Establish an integrated wayside renewal process	Standardize data-driven maintenance practices Examples • Implement common prioritization framework across departments • Deploy shared performance dashboards	Leverage AI & new technologies to prioritize maintenance and improve outcomes Examples • Deploy predictive failure alerts for key assets • Identify new material solutions to manage high heat

Continuous Improvement

Revamping the Maintenance Operations Center: A centralized, data-driven command function that monitors asset health in real time, directs maintenance response, and works with Operations to restore service quickly and improve reliability.



Long-Range Planning

The work is complex, scheduling it is even harder

Operational Requirements

- Some work can only occur when tracks are out of service
- Weather can limit when certain projects can be completed
- Ongoing operations & safety requirements restrict available work windows

Community & Regional Events

- America 250 celebrations
- Major seasonal events (July 4th, Cherry Blossoms, NFL Draft)
- Concerts, sporting events, and regional activities that drive ridership

Customer Impact

- Minimizing disruptions for customers
- Deciding between slower service or full closures
- Maintaining access across multiple rail corridors

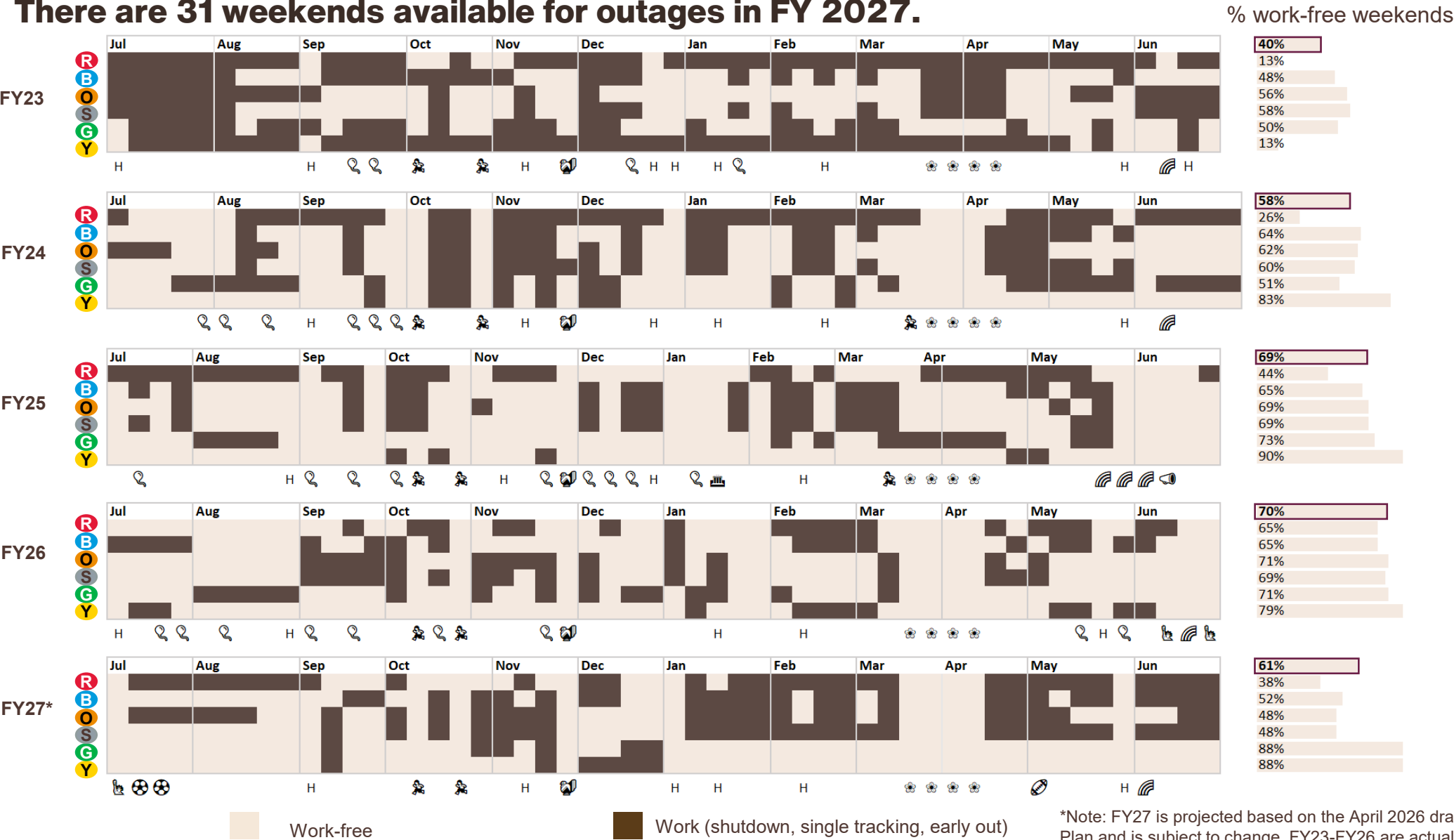
Making the Most of Every Outage

- Combining multiple work activities into one closure
- Supporting major capital projects and modernization efforts
- Maximizing productivity while minimizing customer impacts



Work-free weekends increased 30% since 2023

There are 31 weekends available for outages in FY 2027.





Events >= 35,000 attendance



Marathon



Cherry Blossoms



American 250



Inauguration



FIFA Fan Fest



Thanksgiving



Pride Festival



NFL Draft



Military Parade

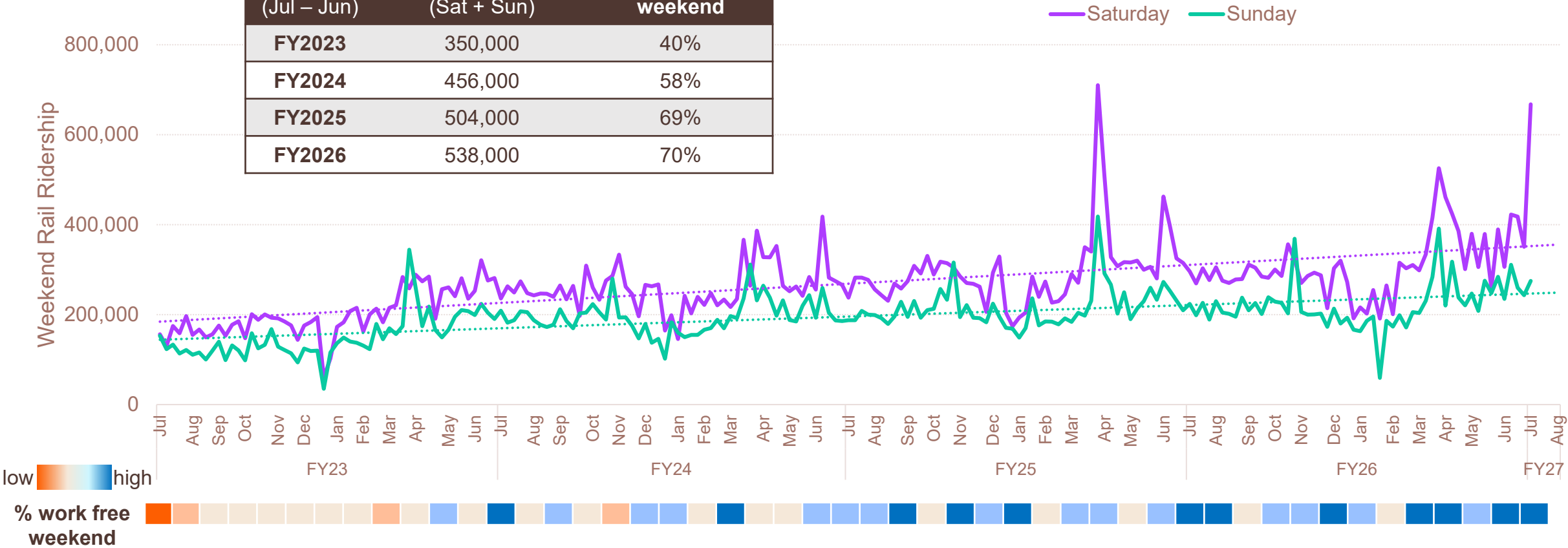
H

Holiday/Long Weekend

More riders, fewer outage opportunities

Maintenance work must adapt to growing weekend demand

FY (Jul – Jun)	Average Ridership (Sat + Sun)	% work-free weekend
FY2023	350,000	40%
FY2024	456,000	58%
FY2025	504,000	69%
FY2026	538,000	70%

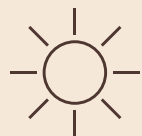


Where Metro is concentrating major maintenance work in 2026 – 2027

Outages are targeted to enable the highest-priority state-of-good-repair and reliability projects while minimizing customer impacts.

Line	Location	Project	2026						2027							
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
	Friendship Heights - North Bethesda	Purple Line Mezzanine														
	Rhode Island - Silver Spring	Train control room replacement														
	Silver Spring - Forest Glen	Track & signals rehabilitation														
	Union Station - Rhode Island	Track rehabilitation														
	Twinbrook - Shady Grove	Track & structures rehabilitation														
  	Foggy Bottom - Pentagon / Court House	Track rehabilitation														
	West Falls Church Yard	Yard rehabilitation														
	King Street - Franconia Springfield	Track rehabilitation														
 	Hyattsville Crossing - Greenbelt	Train control room replacement														
	Pentagon - L'Enfant Plaza	Track rehabilitation														
	U Street - Georgia Ave-Petworth	Restraining rail removal														
	Georgia Ave-Petworth - Hyattsville Crossing	Train control room replacement														

Major Outages: July 1 – December 31, 2026



Summer Shutdown 2026



Winter Single Track 2026

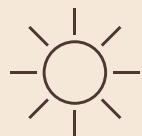
Friendship Heights – North Bethesda

- **Service Pattern:** Extended shutdown
- **Dates:** July 6 – September 7, 2026
- **Scope:** Bethesda Mezzanine & Grosvenor Platform

U St – Georgia Ave

- **Service Pattern:** Single tracking
- **Dates:** December 16 – 30, 2026
- **Scope:** Restraining rail removal

Major Outages: July 1 – December 31, 2027



Summer Shutdown 2027

West Falls Church Yard

- **Service Pattern:** N/A
- **Dates:** July – November 2027
- **Scope:** Yard rehabilitation

Summer Maintenance Revitalization (July – September)

- Union Station – Rhode Island Ave, Interlocking Tie Replacement
- Shady Grove – Twinbrook, Ties & Bridge Rehab
- Fort Totten, Train Control Room Rehab
- King St – Franconia-Springfield, Interlocking Tie Replacement



Winter Service Changes 2027

Foggy Bottom – Arlington Cemetery / Clarendon

- **Service Pattern:** Extended shutdown
- **Dates:** December 2027
- **Scope:** Track rehabilitation

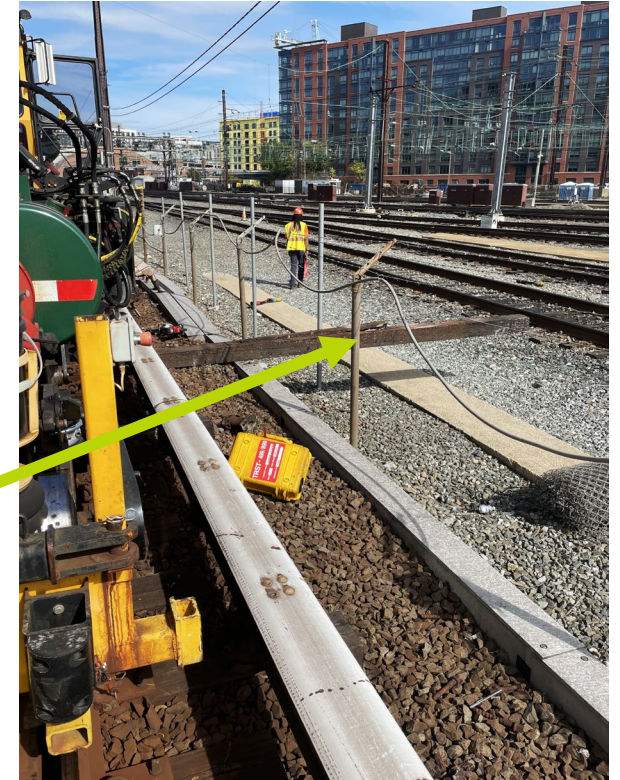
Extended shutdown required to complete labor-intensive track rehabilitation activities, such as grout pad replacement, that require more time than is available during routine overnight maintenance windows.

R Union Station – Rhode Island, Interlocking Ties



NoMa Interlocking is 20+ years old and beyond life cycle

Switch tie replacement requires access to Amtrak property, coordination and escort required



R Twinbrook – Shady Grove, Ties & Bridge Rehab



Insulated fasteners are currently scheduled for replacement

Deteriorated cross-ties impact ride quality



Red Line Planning

What Metro Is Doing in FY2027

Friendship Heights – North Bethesda

- **Service Pattern:** Extended shutdown
- **Dates:** July 6 – September 7, 2026
- **Scope:** Bethesda Mezzanine & Grosvenor Platform



Rhode Island – Silver Spring

- **Service Pattern:** Weekend shutdown
- **Dates:** February 2027
- **Scope:** Train control room replacement

Silver Spring – Forest Glen

- **Service Pattern:** Single tracking (5 weekends)
- **Dates:** Late Spring 2027
- **Scope:** Track, switch machine, and traction power rehab.

What Metro is Doing in FY2028

Union Station – Rhode Island

- **Service Pattern:** Extended shutdown
- **Dates:** August 2027
- **Scope:** Interlocking ties



Twinbrook – Shady Grove

- **Service Pattern:** Extended shutdown
- **Dates:** July 2027
- **Scope:** Ties & Bridge Rehab



Orange / Silver / Blue Line Planning

What Metro Is Doing in FY2027

Foggy Bottom – Pentagon / Court House

- **Service Pattern:** Weekend shutdown
- **Dates:** October 17 – 18, 2026
- **Scope:** Track rehabilitation

What Metro is Doing in FY2028

West Falls Church Yard

- **Service Pattern:** N/A
- **Dates:** July – November 2027
- **Scope:** Yard rehabilitation



King Street – Franconia-Springfield

- **Service Pattern:** 4-day shutdown
- **Dates:** August 2027
- **Scope:** Interlocking tie replacement



Green / Yellow Line Planning

What Metro Is Doing in FY2027

Hyattsville Crossing – Greenbelt

- **Service Pattern:** Weekend shutdown
- **Dates:** September 5 – 7, 2026
- **Scope:** Train control room renewal

Pentagon – L'Enfant Plaza

- **Service Pattern:** Weekend shutdown
- **Dates:** September 19 – 20, 26 – 27, 2026
- **Scope:** Track rehabilitation

U St – Georgia Ave-Petworth

- **Service Pattern:** Single tracking
- **Dates:** December 16 – 30, 2026
- **Scope:** Restraining rail removal



What Metro is Doing in FY2028

George Ave-Petworth – Hyattsville Crossing

- **Service Pattern:** Extended shutdown
- **Dates:** July 2027
- **Scope:** Fort Totten train control room replacement



Planning FY 29 – 32

Planning

- Rhode Island Avenue Platform Rehabilitation
- Red Line Modernization
 - 8K Testing
 - Platform Doors
 - Communications Based Train Control (CBTC)

Planning

- Yellow Line Bridge Shutdown
 - Long Bridge Construction (VRPA)

Planning

- RFK Stadium Opening
 - D&G Reliability
 - Stadium Armory Station Improvements
- Morgan Blvd & Downtown Largo Interlocking Rehab
- Ballston Mezzanine