



# SafeTrack: Surge 10 Detailed Report

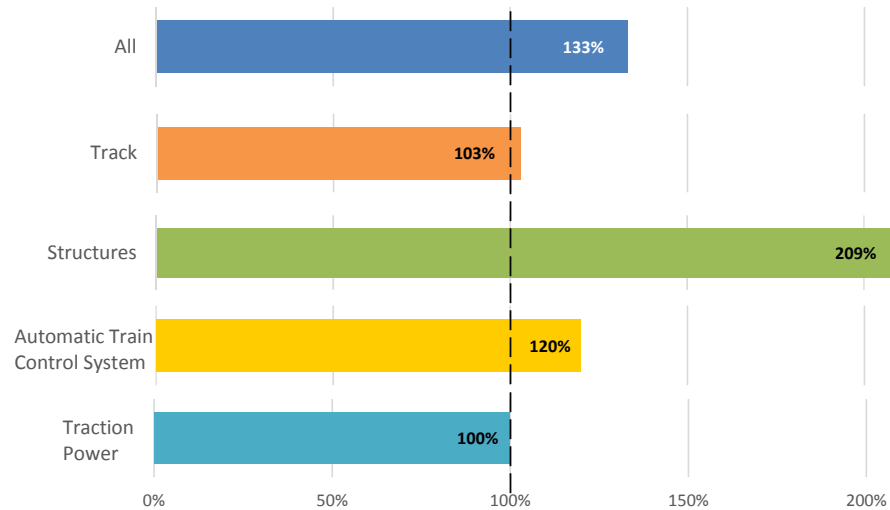
**DATES:**  
October 29-  
November 22

**WORK ZONE:**  
NoMa-Gallaudet to Fort Totten, Shutdown

*Final Report  
Data as of 12/8/2016*

**SCOPE OF WORK:** Renewal of rail and power infrastructure on this portion of the Red line, including crossties, rail, fasteners, grout pads, track circuit equipment and power cables.

## Overall Progress (% Planned Work Complete)



### Notes:

\*Surge #10 results are preliminary and subject to quality control processes which will remain continuous throughout the duration of SafeTrack. Any remediation work that is identified will be accomplished during normal maintenance times.

Actual work complete represents the % complete across all tasks.



Surge 10 concluded on November 22, 2016 with all planned tasks completed. During the surge, priority was given to repairing or replacing critical rail infrastructure that affects safety, train speeds and ride quality. Additional maintenance activities, including repairs to Rhode Island Ave Station, were fit in as time permitted.

Fort Totten was a particularly challenging work area due to the interconnected tracks and the design of the track circuits. Significant effort was made to set up the work zone in a manner that minimized the impact to riders at Fort Totten on the Red, Yellow and Green lines.

The main focus of the surge was to replace deteriorating crossties, grout pads, switches and rebuild the double crossover at Rhode Island Ave Station. The ATC Maintenance crew addressed National Transportation Safety Board (NTSB) recommendations by replacing track circuit cables critical for train detection and safe operation. The ATC crew also conducted regular maintenance of intrusion detection warning (IDW) boxes, signal lights, junction boxes, push buttons and marker coils. Structural repairs at Rhode Island Ave Station also were completed by a separate contractor to address the recent issues with falling concrete; this scope is separate from SafeTrack and will continue beyond the end of the surge.

The critical tasks completed during the surge include:

- + Replaced more than 2,000 crossties
- + Replaced more than 5,500 linear feet of grout pad, more than Surges 1-9 combined
- + Replaced Rhode Island Double Crossover
- + Replaced 6 ATC track circuit cables
- + Welded 105 joints
- + Replaced more than 700 insulators
- + Repaired more than 30 power cables and more than 30 pigtails
- + Upgraded 15 signals to LED which are brighter and will last longer
- + Upgraded 405 IDW boxes, an important safety feature along fence lines
- + Removed vegetation and trash from more than 38,000 feet of the track bed

With the increased track access provided by SafeTrack, WMATA has been able to replace 26,202 ties and 9,501 linear feet of grout pad in six months, which is more crossties than the last two fiscal years combined and more grout pad than in any of the past three years.



# SafeTrack: Surge 10 Detailed Report

Final Report: 12/8/2016

	Task	unit	Completed During Surge
<b>Track</b>	Crosstie renewal	# crossties	2,028
	Insulator replacement	# insulators	795
	Ballast renewal	# tons	300
	Tamping	# linear feet	24,200
	Third Rail maintenance	# linear feet cover board	4,910
	Joint elimination	# joints welded	105
	Rail replacement	# linear feet	1,738
	Fastner renewal	# fastners	1,245
	Switch renewal	# switches	6
	<b>Structures</b>	Grout Pad renewal	# linear feet grout pad
Track Bed cleaning		# linear feet	38,354
<b>Automatic Train Control System</b>	Intrusion Detection Warning System (IDW) refurbishment and replacement	# boxes	405
	Line Junction box repair/replacement	# boxes	26
	Track Junction box repair/replacement	# boxes	49
	Push Buttons box repair/replacement	# boxes	4
	Signals painted	# signals	32
	Signal conversion to LED lighting	# signals	15
<b>Traction Power System</b>	Power Cable repair/replacement	# cables	38