



# SafeTrack: Surge 8

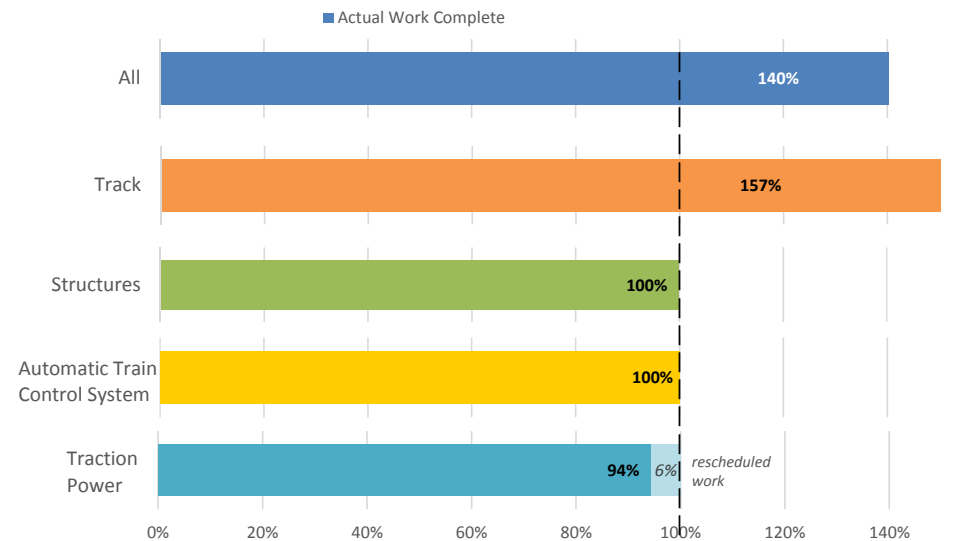
**DATES:**  
August 27 -  
September 11

**WORK ZONE:**  
Franconia-Springfield to Van Dorn St., Continuous Single Tracking  
(with Full Shutdown August 27-28, September 3-5, 10-11)

*Final Report  
Updated as of 09/23/2016*

**SCOPE OF WORK:** Renewal of rail and power infrastructure on this portion of the Blue and Yellow Rush+ lines, including crossties, track circuit equipment, and power cables.

## Overall Progress (% Planned Work Complete)



### Notes:

\*Surge #8 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 8 concluded on September 11, 2016 with most planned tasks completed. During the surge, priority was given to addressing potential defects and repairing or replacing critical rail infrastructure that affects train speeds and ride quality. Additional regular and preventive maintenance activities were fit in as time permitted. These maintenance activities are and will continue to be conducted on a regular basis to keep the infrastructure in a state of good repair.

The main focus of the work was to replace deteriorating crossties on both sets of tracks in this area, many of which were original to this part of the system. Approximately 4,000 crossties needed to be replaced to achieve a state of good repair. Due to better planning and milder weather, crews replaced over 7,000 crossties, the most of any surge to date, which allows WMATA to get ahead of the goal of eliminating crosstie backlog. With the increased track access provided by SafeTrack, WMATA was able to accomplish in 16 days nearly half of the crosstie work accomplished in a typical year, when crews replace about 15,000 crossties system-wide. Faster-moving crossties work also enabled crews to weld 27 open joints in this area, which were not part of the original scope.

The critical tasks completed during the surge include:

- + Replaced over 7,000 crossties
- + Welded 27 joints
- + Replaced over 350 insulators
- + Repaired over 50 power cables, over 190 damaged orange boots and over 25 pigtails
- + Repaired 66 track junction boxes and 500 Intrusion Detection Warning System boxes, important safety features along fence lines
- + Inspected and repaired power and IT connections to 70 emergency trip station boxes, ensuring that power can be quickly removed from the third rail in case of emergencies
- + Removed vegetation and trash from over 16,000 feet of the track bed, improving drainage and eliminating fire hazards, and replaced missing or damaged signs

Power crews also addressed recent FTA Safety Directive 16-4 by changing out bolts on expansion cables throughout the area. They will return to the area to complete work on several remaining power connection cables near Van Dorn Street station after the system closes. All other tasks were complete.



# SafeTrack: Surge 8 Detailed Report

Final Report: Updated 9/23/2016

	Task	unit	Completed During Surge
<b>Track</b>	Crosstie renewal	# crossties	7,102
	Insulator replacement	# insulators	353
	Ballast renewal	# tons	2,000
	Tamping	# linear feet	39,400
	Third Rail maintenance	# linear feet cover board	230
	Joint elimination	# joints welded	27
<b>Structures</b>	Track Bed cleaning	# linear feet	16,180
<b>Automatic Train Control System</b>	Intrusion Detection Warning System (IDW) refurbishment and replacement	# boxes	500
	Track Junction Box refurbishment	# boxes	66
	Signal conversion to LED lighting	# signals	16
<b>Traction Power System</b>	Power Cable repair/replacement	# cables	52