

Weekly Progress Report – July 14, 2017

| July 7 to July 13 | | | Activity Status | |
|---|-------------|-------------|-----------------|--|
| Replace 69A switch | Complete | On Schedule | | |
| Replace 69B switch | Complete | On Schedule | | |
| Preparatory work for 37/71 core scissor | Complete | On Schedule | | |
| July 14 to July 20 | | | Activity Status | |
| Install 37/71 core scissors | In Progress | On Schedule | | |
| Install 71/89 core scissors | Planned | On Schedule | | |
| Replace 2 complex frogs | Planned | On Schedule | | |
| Replace long cross ties (21' – 26') | Planned | On Schedule | | |
| July 21 to July 26 | | | Activity Status | |
| Install core scissors 69/71 | Planned | On Schedule | | |
| Replace 2 complex frogs | Planned | On Schedule | | |
| Install / test signal & power system | Planned | On Schedule | | |
| Replace Track 10: July 7 to August 28 | | | Activity Status | |
| Remove old rail and third rail | Complete | On Schedule | | |
| Remove old block ties | In Progress | On Schedule | | |
| Demolition of concrete roadbed | In Progress | On Schedule | | |

Program Description Amtrak is accelerating already scheduled work on a series of major track and switch improvement projects that, once complete, will improve reliability and operations at Penn Station and along the Northeast Corridor.

Phase I (July 7 to July 26) - Work entails the demolition, removal and renewal of the 69A and 69B switch (crossover). In addition the switch points and stock rail for the core scissors will be removed and renewed. It should be noted that the core scissors have unique curvature in the stock rail that is not found on standard switches. This requires the entire removal of the switch and replacement of long timbers (some 26' long). Amtrak forces will also be disassembling the signal system that controls the switches and putting in new switch machines. Complex frogs (4) will be removed and replaced. All of this requires the movement of specialized pieces of track equipment that must traverse in and out of the area to bring in materials which can not be stored (due to limited space) near the job site.

For the platform 10 track renewal (which will take the entirety of the shutdown) Amtrak forces must remove all rail, third rail, cables and signal system apparatus and begin demolition of the concrete roadbed. This requires the disposal of 100 cubic yards of concrete. After removal of the concrete the new forms will be put in place and on-rail concrete trucks will be loaded outside of Penn Station and brought in through the "Empire Tunnel" to allow for the new concrete to be efficiently poured. This requires shutting down of the track and also the adjacent track where the trucks will sit.

Work tasks to be completed for the week July 7 to July 13 include:
(Numbers correspond with locations where work occurred at track level. See map on next page.)

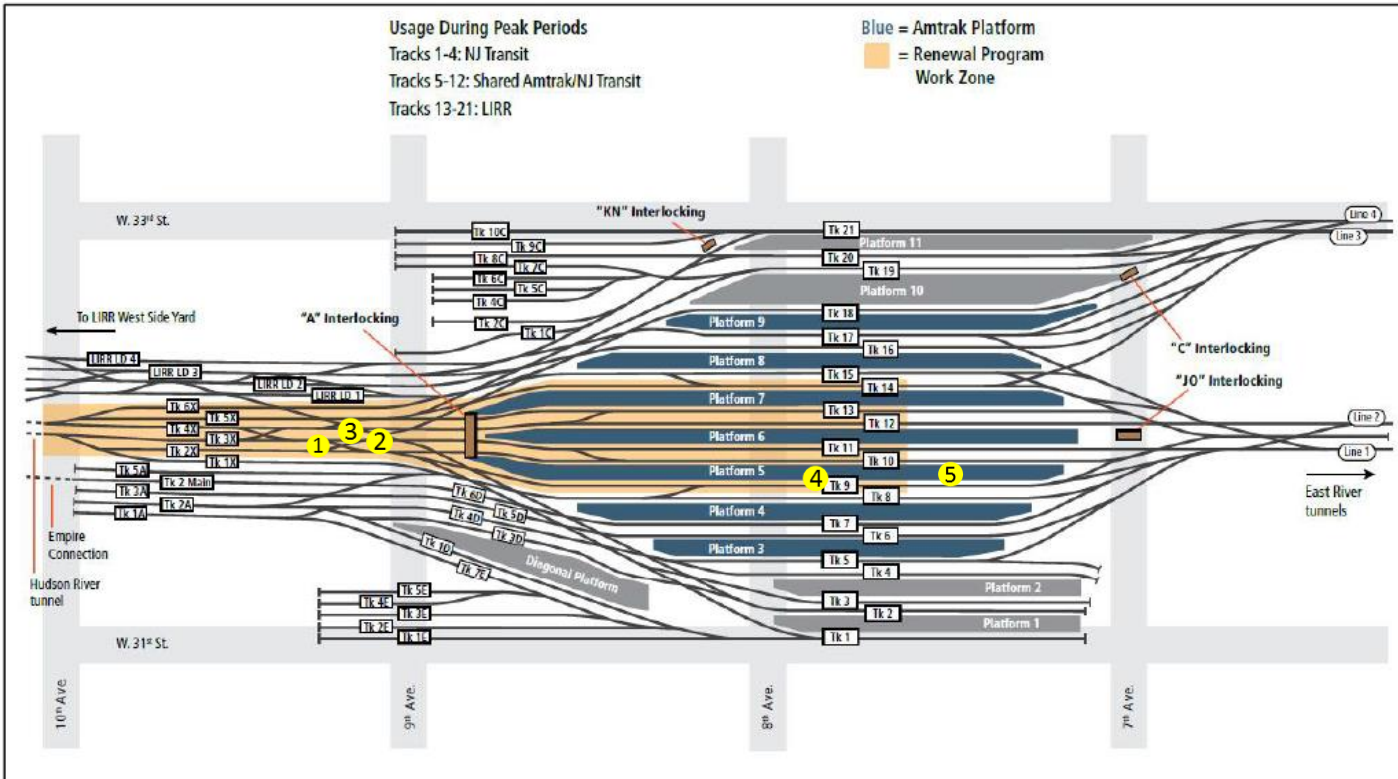
1. Replacement of 69A and 69B switch
2. Preparatory work (removals) for 37/71 core scissors and long cross tie replacement
3. Preparatory work for replacement of complex frogs
4. Removal of rail, third rail on track 10
5. Begin demolition of concrete track bed for track 10

Major construction efforts for the entire duration (July 7 to September 3) include:

- Replacing entire switch turnouts using a specialized piece of on-track equipment called a "switch exchange system". This unit carries in whole section of track to enable efficient replacement of switches.
- Replacing long timbers and core scissors tracks. Because of the tight conditions in Penn Station the whole scissor layout needs to be disassembled and the ties replaced and the scissor replaced with new components
- Replacement of 8 specialized frogs, diamonds and end frogs
- Track ten total rebuild, includes demolition of track and concrete, re-pour and setting of concrete, new ties, rail and third rail
- Renewal of all switch machines and valves

Explanation of items / terminology may be seen at Amtrak.com/nyprenewal.

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Source: Amtrak