

Seattle Tunnel Partners monthly schedule – October 2014

The Washington State Department of Transportation's contractor, Seattle Tunnel Partners, is responsible for designing and building the SR 99 tunnel. WSDOT's contract with STP includes a number of elements. In addition to boring the tunnel and building the highway within it, STP is responsible for building highway ramps and other connections at the north and south ends of the tunnel. They are also constructing buildings at each tunnel portal to house lighting, ventilation and other systems needed to operate the tunnel.

STP submits an updated schedule to WSDOT each month. Like all large construction projects, the schedule for this project changes frequently. WSDOT cannot verify any of the dates shown in this schedule.

| Activity ID | Activity Name | Original Duration | Remaining Duration | Sep 2014 Dur (ACD) | Start | Finish | Longest Path | Total Float | Calendar | Sep 2014 Start | Sep 2014 Finish | Var - Sep 2014 Start | Var - Sep 2014 Finish | 2013 | | | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | |
|---------------------|--|-------------------|--------------------|--------------------|-----------|------------|--------------|-------------|------------|----------------|-----------------|----------------------|-----------------------|------|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|
| | | | | | | | | | | | | | | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| BT TBM Shaft 09 | Jet Grout, Instrumentation and Dewatering | 18 | 0 | 35 | 16-Aug-14 | 01-Nov-14 | ✔ | -613 | 99 - 7-day | 16-Aug-14 | 05-Oct-14 | 0 | -26 | | | | | | | | | | | | | | | | | | | | | | | |
| TIA006 Discharge 4 | SPU Approval to Discharge at 72" Discharge Point | 21 | 4 | 0 | 15-Oct-14 | 04-Nov-14 | ✔ | -613 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIA007 ARCH 01 | Archaeological Investigation | 5 | 1 | 0 | 23-Oct-14 | 01-Nov-14 | ✔ | -608 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 10b2 | Remobilize & Set Up (Following WSDOT direction to resume Excavation) | 2 | 2 | 0 | 02-Nov-14 | 03-Nov-14 | ✔ | -608 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 10b3 | Resume Excavation of Access shaft to Elevation -24 | 1 | 1 | 0 | 04-Nov-14 | 04-Nov-14 | ✔ | -608 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 10d | Excavate Access Shaft to Top of TBM | 2 | 2 | 0 | 05-Nov-14 | 06-Nov-14 | ✔ | -608 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIA006 Discharge 5 | Absence of access to 72" Discharge Point | 6 | 6 | 0 | 05-Nov-14 | 10-Nov-14 | ✔ | -613 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIA006 Discharge 6 | Install Piping / Flowmeter & Tie in to SPU 72" Discharge Point | 1 | 1 | 0 | 10-Nov-14 | 10-Nov-14 | ✔ | -613 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIA006 Discharge 7 | Start Deep Wells | 1 | 1 | 0 | 11-Nov-14 | 11-Nov-14 | ✔ | -613 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 10e | Excavate Access Shaft to Springline of TBM | 6 | 6 | 0 | 12-Nov-14 | 17-Nov-14 | ✔ | -613 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 10f | Excavate Access Shaft to Final Elevation | 10 | 10 | 0 | 18-Nov-14 | 27-Nov-14 | ✔ | -613 | 99 - 7-day | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 010c | Install Cradle | 10 | 10 | 6 | 28-Nov-14 | 07-Dec-14 | ✔ | -613 | 99 - 7-day | 14-Nov-14 | 23-Nov-14 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 07 | Move TBM to Recovery Shaft | 5 | 5 | 5 | 08-Dec-14 | 12-Dec-14 | ✔ | -613 | 99 - 7-day | 24-Nov-14 | 28-Nov-14 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08A | Lifting Preparation Work | 20 | 20 | 15 | 08-Dec-14 | 27-Dec-14 | ✔ | -613 | 99 - 7-day | 24-Nov-14 | 13-Dec-14 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08B | Disassembly Work in the Shaft and Lifting Work | 20 | 20 | 15 | 28-Dec-14 | 16-Jan-15 | ✔ | -613 | 99 - 7-day | 14-Dec-14 | 02-Jan-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08C | Disassembly Work on the Ground | 25 | 25 | 17 | 17-Jan-15 | 10-Feb-15 | ✔ | -613 | 99 - 7-day | 03-Jan-15 | 27-Jan-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08D | Assembly Work on the Ground | 15 | 15 | 11 | 11-Feb-15 | 25-Feb-15 | ✔ | -613 | 99 - 7-day | 28-Jan-15 | 11-Feb-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08E | Lowering and Assembly Work | 10 | 10 | 7 | 26-Feb-15 | 07-Mar-15 | ✔ | -613 | 99 - 7-day | 12-Feb-15 | 21-Feb-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08F | Restore Work | 35 | 35 | 25 | 08-Mar-15 | 11-Apr-15 | ✔ | -613 | 99 - 7-day | 22-Feb-15 | 28-Mar-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08G | Commissioning | 20 | 20 | 15 | 12-Apr-15 | 01-May-15 | ✔ | -613 | 99 - 7-day | 29-Mar-15 | 17-Apr-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08H | Backfill Shaft | 9 | 9 | 5 | 02-May-15 | 10-May-15 | ✔ | -613 | 99 - 7-day | 18-Apr-15 | 26-Apr-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM Shaft 08I | Ready to Resume Tunnel Mining | 0 | 0 | 0 | | 10-May-15 | ✔ | -613 | 99 - 7-day | | 26-Apr-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 102C | BT TBM Mining 204+75 to 210+10 - Safe Haven 3 | 37 | 37 | 38 | 11-May-15 | 01-Jul-15 | ✔ | -424 | 99 - 5-day | 27-Apr-15 | 17-Jun-15 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBMSH3 | BT - TBM at Safe Haven 3 (Cost Summary) | 25 | 25 | 17 | 02-Jul-15 | 26-Jul-15 | ✔ | -614 | 99 - 7-day | 18-Jun-15 | 12-Jul-15 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 102x | BT - TBM MiningPrecast\Muck 210+00 to 213+00 (Balance of Reach 2) | 25 | 25 | 25 | 27-Jul-15 | 28-Aug-15 | ✔ | -423 | 99 - 5-day | 13-Jul-15 | 14-Aug-15 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 103 | BT - TBM MiningPrecast\Muck 213+00 to 234+00 (Reach 03) | 71 | 71 | 72 | 31-Aug-15 | 10-Dec-15 | ✔ | -423 | 99 - 5-day | 17-Aug-15 | 24-Nov-15 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 104 | BT - TBM MiningPrecast\Muck 234+00 to 238+80 (Reach 04) | 10 | 10 | 12 | 11-Dec-15 | 24-Dec-15 | ✔ | -423 | 99 - 5-day | 25-Nov-15 | 10-Dec-15 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 105 | BT - TBM MiningPrecast\Muck 238+80 to 245+00 (Reach 05) | 13 | 13 | 14 | 28-Dec-15 | 14-Jan-16 | ✔ | -423 | 99 - 5-day | 11-Dec-15 | 30-Dec-15 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 106 | BT - TBM MiningPrecast\Muck 245+00 to 252+00 (Reach 06) | 13 | 13 | 14 | 15-Jan-16 | 02-Feb-16 | ✔ | -423 | 99 - 5-day | 31-Dec-15 | 19-Jan-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 107 | BT - TBM MiningPrecast\Muck 252+00 to 287+20 (Reach 07) | 68 | 68 | 69 | 03-Feb-16 | 09-May-16 | ✔ | -423 | 99 - 5-day | 20-Jan-16 | 25-Apr-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| BT TBM 95 | BT - Disassemble & Remove TBM & Trailing Gear (Linear Plant) from North End | 60 | 60 | 62 | 10-May-16 | 03-Aug-16 | ✔ | -423 | 99 - 5-day | 26-Apr-16 | 20-Jul-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC Final Slab 1 | NCC - F/R/P Final Slab (200 LF) 300+00 to 301+00 (Ext. Pit) | 10 | 10 | 10 | 04-Aug-16 | 17-Aug-16 | ✔ | -423 | 99 - 5-day | 21-Jul-16 | 03-Aug-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC Util Walls | NCC - FRP Utilidor Partition Walls @ Extraction Pit (100 LF) 300+00 to 301+00 | 12 | 12 | 12 | 18-Aug-16 | 02-Sep-16 | ✔ | -423 | 99 - 5-day | 04-Aug-16 | 19-Aug-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC NB Deck 2 | NCC - FRP NB Deck\Slab @ Extraction Pit | 15 | 15 | 16 | 06-Sep-16 | 26-Sep-16 | ✔ | -423 | 99 - 5-day | 22-Aug-16 | 12-Sep-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC NB Walls | NCC - FRP NB Partition Walls @ Extraction Pit | 8 | 8 | 8 | 27-Sep-16 | 06-Oct-16 | ✔ | -423 | 99 - 5-day | 13-Sep-16 | 22-Sep-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC SB Deck 2 | NCC - FRP SB Deck\Slab @ Extraction Pit | 15 | 15 | 15 | 07-Oct-16 | 27-Oct-16 | ✔ | -423 | 99 - 5-day | 23-Sep-16 | 13-Oct-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC SB Walls | NCC - FRP SB Partition Walls @ Extraction Pit | 8 | 8 | 8 | 28-Oct-16 | 08-Nov-16 | ✔ | -414 | 99 - 5-day | 14-Oct-16 | 25-Oct-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC Roof Deck 00B | NCC - F/R/P SB Ceiling Deck (below Girders) @ Extaction Pit | 8 | 8 | 8 | 09-Nov-16 | 18-Nov-16 | ✔ | -414 | 99 - 5-day | 26-Oct-16 | 04-Nov-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC Int Walls RD 1 | NCC - F/R/P Interior Walls above Ceiling Deck (below Girders) @ E. Pit (100 LF) 300+00 to 301+00 | 8 | 8 | 8 | 21-Nov-16 | 02-Dec-16 | ✔ | -414 | 99 - 5-day | 07-Nov-16 | 16-Nov-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| NCC Int Walls RD 2 | NCC - F/R/P Maint. Air Plenum above SB Ceiling Deck (above Girders) @ E. Pit (100 LF) 300+00 to 301+00 | 8 | 8 | 8 | 21-Nov-16 | 02-Dec-16 | ✔ | -414 | 99 - 5-day | 07-Nov-16 | 16-Nov-16 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| PW TAB 01 | PW Maintenance Air System TAB Final | 40 | 40 | 44 | 05-Dec-16 | 31-Jan-17 | ✔ | -414 | 99 - 5-day | 17-Nov-16 | 17-Jan-17 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| PW Integration Test | Project Wide - Systems Integration Testing Prior To Commissioning | 35 | 35 | 36 | 01-Feb-17 | 22-Mar-17 | ✔ | -414 | 99 - 5-day | 18-Jan-17 | 08-Mar-17 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| PW 03 | Project Wide - Pre-Acceptance Phase Commissioning (2 Months) | 40 | 40 | 40 | 23-Mar-17 | 17-May-17 | ✔ | -414 | 99 - 5-day | 09-Mar-17 | 03-May-17 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| PW 04 | Project Wide - Acceptance Phase Commissioning (3 Months) | 65 | 65 | 67 | 18-May-17 | 18-Aug-17 | ✔ | -414 | 99 - 5-day | 04-May-17 | 04-Aug-17 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| PW 05 | Project Wide - Final System Test for Traffic (1 Month) | 20 | 20 | 20 | 24-Jul-17 | 18-Aug-17 | ✔ | -414 | 99 - 5-day | 10-Jul-17 | 04-Aug-17 | -10 | -10 | | | | | | | | | | | | | | | | | | | | | | | |
| MS 10 | MS-10: LD Milestone - Substantial Completion (Finish on 21Dec15) | 0 | 0 | 0 | | 18-Aug-17* | ✔ | -594 | 99 - 7-day | | 04-Aug-17 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | |

— Primary Baseline — Remaining Work ◆ Milestone
— Actual Work — Critical Remaining Work

Critical Path - October 2014 Final Update Compared with September 2014 Final Update

TASK filters: Critical, No WBS Summary, TF < -300.

| Activity ID | Activity Name | Original Duration | Remaining Duration | Sep 2014 Dur (ACD) | Start | Finish | Longest Path | Total Float | Calendar | Sep 2014 Start | Sep 2014 Finish | Var - Sep 2014 Start | Var - Sep 2014 Finish | 2013 | | | | 2014 | | | | 2015 | | | | 2016 | | | | 2017 | | | | 2018 | | | |
|-------------|---|-------------------|--------------------|--------------------|-----------|------------|--------------|-------------|------------|----------------|-----------------|----------------------|-----------------------|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|
| | | | | | | | | | | | | | | 3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| PW 80 | Project Wide - Start Post Substantial Completion Activities | 0 | 0 | 0 | 19-Aug-17 | | ☑ | -594 | 99 - 7-day | 05-Aug-17 | | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | | |
| PW 88 | Project Wide - Final Inspection (120 CD - Substantial Completion to Physical Completion) | 120 | 120 | 85 | 19-Aug-17 | 16-Dec-17 | ☑ | -594 | 99 - 7-day | 05-Aug-17 | 02-Dec-17 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | | |
| PW 85 | Project Wide - Physical Completion (Substantial Completion + 120 CD) (Finish on 19Apr16) | 0 | 0 | 0 | | 16-Dec-17 | ☑ | -594 | 99 - 7-day | | 02-Dec-17 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | | |
| PW 86 | Project Wide - Final Pickup (120 CD - Physical Completion to Final Completion) | 120 | 120 | 85 | 17-Dec-17 | 15-Apr-18 | ☑ | -594 | 99 - 7-day | 03-Dec-17 | 01-Apr-18 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | | |
| PW 90 | Project Wide - Milestone - Final Completion (Substantial Completion + 240 CD) (Finish on 17Aug16) | 0 | 0 | 0 | | 15-Apr-18 | ☑ | -594 | 99 - 7-day | | 01-Apr-18 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | | |
| PW 95 | Project Wide - Milestone - Release Retainage (Final Completion +60 CD) (Finish on 16Oct16) | 0 | 0 | 0 | | 14-Jun-18* | ☑ | -594 | 99 - 7-day | | 31-May-18 | -14 | -14 | | | | | | | | | | | | | | | | | | | | | | | | |