

Seattle Tunnel Partners monthly schedule – August 2016

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 controls for lighting, ventilation and other systems needed to operate the tunnel.

STP submits an updated schedule to WSDOT each month. These monthly schedules show projected durations for "critical-path" activities, which are activities that must be completed on time for the project to be finished on the projected completion date. An activity on the critical path cannot be started until certain prior activities are complete.

The detailed critical-path schedule can be found on the following pages. Like all large construction projects, the schedule for this project changes frequently. Because STP is responsible for the schedule under the terms of the project's design-build contract, WSDOT cannot verify any of the dates shown in this schedule.

As a reminder, after STP hands over the tunnel to the state, work must be done to connect the new tunnel to SR 99 in the south and Aurora Avenue North in the north. Based on STP's schedule, WSDOT estimates the tunnel would open to traffic in early 2019.

August Update (Data Date Sept 1, 2016)		Appendix B2.1 - Longest Path									18-Sep-16 11:39											
Activity ID	Activity Name	OD	Start	Finish	Last Month Start	Last Month Finish	Start Variance	Finish Variance	Total Float	Gantt Chart (2017-2019)												
TB 170	Tunnel Boring Station 225+39 - 241+50	64	18-Jul-16 A	04-Oct-16	18-Jul-16	14-Oct-16	0	8	0	[Gantt Bar: 18-Jul-16 to 04-Oct-16]												
TB 160	Intervention 2	20	05-Oct-16	01-Nov-16	17-Oct-16	11-Nov-16	8	8	0	[Gantt Bar: 05-Oct-16 to 01-Nov-16]												
TB 190	Tunnel Boring Station 241+50 - 270+60	83	02-Nov-16	03-Mar-17	14-Nov-16	03-Mar-17	8	0	0	[Gantt Bar: 02-Nov-16 to 03-Mar-17]												
TB 180	Intervention 3	20	06-Mar-17	31-Mar-17	06-Mar-17	31-Mar-17	0	0	0	[Gantt Bar: 06-Mar-17 to 31-Mar-17]												
TB 250	Tunnel Boring Station 270+60 - 287+20	51	03-Apr-17	13-Jun-17	03-Apr-17	13-Jun-17	0	0	0	[Gantt Bar: 03-Apr-17 to 13-Jun-17]												
TB 260	Tunnel Boring Complete	0		13-Jun-17		13-Jun-17	0	0	0	[Gantt Bar: 13-Jun-17 to 13-Jun-17]												
EX PIT - CON - 100	NCC Remove Break out Struts and Walers	10	14-Jun-17	27-Jun-17	14-Jun-17	27-Jun-17	0	0	0	[Gantt Bar: 14-Jun-17 to 27-Jun-17]												
EX TB 100	Move TBM into Disassembly Location	3	28-Jun-17	30-Jun-17	28-Jun-17	16-Jul-17	0	9	0	[Gantt Bar: 28-Jun-17 to 30-Jun-17]												
EX TB 110	Drain Temporary Utilities	5	01-Jul-17	05-Jul-17	27-Jul-17	05-Aug-17	26	31	0	[Gantt Bar: 01-Jul-17 to 05-Jul-17]												
Remove Temp Util 140	Removal of TBM Temporary Utilities Reach 1 (Station 194+50 - 205+71)	12	06-Jul-17	21-Jul-17	17-Jul-17	21-Jul-17	7	0	0	[Gantt Bar: 06-Jul-17 to 21-Jul-17]												
TC Reach 1 - 180	SOUTH BOUND EAST WALLS - Form, Rebar, Imbed MEP, Pour - Reach 1 (Station 194+50 - 205+71)	22	22-Jul-17	18-Aug-17	22-Jul-17	18-Aug-17	0	0	0	[Gantt Bar: 22-Jul-17 to 18-Aug-17]												
TC Reach 1 - 200	UPPER PORTION SOUTH BOUND WALLS - Shotcrete - Reach 1 (Station 194+50 - 205+71)	22	28-Jul-17	24-Aug-17	28-Jul-17	24-Aug-17	0	0	0	[Gantt Bar: 28-Jul-17 to 24-Aug-17]												
MEP Reach 1 - 200	SOUTH BOUND - Install Mesh - Reach 1	16	25-Aug-17	15-Sep-17	25-Aug-17	15-Sep-17	0	0	0	[Gantt Bar: 25-Aug-17 to 15-Sep-17]												
MEP Reach 1 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 1	16	18-Sep-17	06-Oct-17	18-Sep-17	06-Oct-17	0	0	0	[Gantt Bar: 18-Sep-17 to 06-Oct-17]												
MEP Reach 2 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 2	12	07-Oct-17	21-Oct-17	07-Oct-17	21-Oct-17	0	0	0	[Gantt Bar: 07-Oct-17 to 21-Oct-17]												
MEP Reach 3 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 3	12	23-Oct-17	06-Nov-17	23-Oct-17	06-Nov-17	0	0	0	[Gantt Bar: 23-Oct-17 to 06-Nov-17]												
MEP Reach 4 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 4	10	07-Nov-17	18-Nov-17	07-Nov-17	18-Nov-17	0	0	0	[Gantt Bar: 07-Nov-17 to 18-Nov-17]												
MEP Reach 5 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 5	10	20-Nov-17	04-Dec-17	20-Nov-17	04-Dec-17	0	0	0	[Gantt Bar: 20-Nov-17 to 04-Dec-17]												
MEP Reach 6 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 6	12	05-Dec-17	19-Dec-17	05-Dec-17	19-Dec-17	0	0	0	[Gantt Bar: 05-Dec-17 to 19-Dec-17]												
MEP Reach 7 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 7	12	20-Dec-17	05-Jan-18	20-Dec-17	05-Jan-18	0	0	0	[Gantt Bar: 20-Dec-17 to 05-Jan-18]												
MEP Reach 8 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 8	12	08-Jan-18	22-Jan-18	08-Jan-18	22-Jan-18	0	0	0	[Gantt Bar: 08-Jan-18 to 22-Jan-18]												
MEP Reach 9 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 9	12	23-Jan-18	05-Feb-18	23-Jan-18	05-Feb-18	0	0	0	[Gantt Bar: 23-Jan-18 to 05-Feb-18]												
MEP Reach 10 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 10	11	06-Feb-18	19-Feb-18	06-Feb-18	19-Feb-18	0	0	0	[Gantt Bar: 06-Feb-18 to 19-Feb-18]												
MEP Reach 11 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 11	11	20-Feb-18	05-Mar-18	20-Feb-18	05-Mar-18	0	0	0	[Gantt Bar: 20-Feb-18 to 05-Mar-18]												
MEP Reach 12 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 12	11	06-Mar-18	19-Mar-18	06-Mar-18	19-Mar-18	0	0	0	[Gantt Bar: 06-Mar-18 to 19-Mar-18]												
MEP Reach 13 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 13	10	20-Mar-18	31-Mar-18	20-Mar-18	31-Mar-18	0	0	0	[Gantt Bar: 20-Mar-18 to 31-Mar-18]												
MEP Reach 13 - 220	SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 13	9	02-Apr-18	11-Apr-18	02-Apr-18	11-Apr-18	0	0	0	[Gantt Bar: 02-Apr-18 to 11-Apr-18]												
MEP Reach 13 - 230	SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Con	8	12-Apr-18	21-Apr-18	12-Apr-18	21-Apr-18	0	0	0	[Gantt Bar: 12-Apr-18 to 21-Apr-18]												
MEP Reach 14 - 220	SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 14	8	12-Apr-18	21-Apr-18	12-Apr-18	21-Apr-18	0	0	0	[Gantt Bar: 12-Apr-18 to 21-Apr-18]												
MEP Reach 14 - 230	SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Con	8	23-Apr-18	02-May-18	23-Apr-18	02-May-18	0	0	0	[Gantt Bar: 23-Apr-18 to 02-May-18]												
ER 16 - 510	Final Wire Pull / Termination from South Bound Roadway - Electrical Room #16	5	03-May-18	09-May-18	03-May-18	09-May-18	0	0	0	[Gantt Bar: 03-May-18 to 09-May-18]												
ER 16 Prefunct - 150	South Bound Roadway Prefunctional Check List for Electrical - ER 16	10	10-May-18	23-May-18	10-May-18	23-May-18	0	0	0	[Gantt Bar: 10-May-18 to 23-May-18]												
ER 16 Prefunct - 160	South Bound Roadway Prefunctional Check List for Fire Alarm System - ER 16	5	24-May-18	30-May-18	24-May-18	30-May-18	0	0	0	[Gantt Bar: 24-May-18 to 30-May-18]												
ER 16 Prefunct - 170	South Bound Roadway Prefunctional Check List for Controls - ER 16	5	24-May-18	30-May-18	24-May-18	30-May-18	0	0	0	[Gantt Bar: 24-May-18 to 30-May-18]												
ER 16 Prefunct - 180	South Bound Roadway Prefunctional Check List for Mechanical - ER 16	12	31-May-18	15-Jun-18	31-May-18	15-Jun-18	0	0	0	[Gantt Bar: 31-May-18 to 15-Jun-18]												
Tun Wide Prefunc 60	Maintenance Air Test and Balance (TR2.34)	40	31-May-18	25-Jul-18	31-May-18	25-Jul-18	0	0	0	[Gantt Bar: 31-May-18 to 25-Jul-18]												
Tun Wide Prefunc 70	Prefunctional Check List for Jet & Maintenance Fans	20	31-May-18	27-Jun-18	31-May-18	27-Jun-18	0	0	0	[Gantt Bar: 31-May-18 to 27-Jun-18]												
Tun Wide Prefunc 30	Pre- Commissioning Internal Testing - Tunnel Ventilation System	20	28-Jun-18	25-Jul-18	28-Jun-18	25-Jul-18	0	0	0	[Gantt Bar: 28-Jun-18 to 25-Jul-18]												
MEP - FPT - 120	Maintenance Ventilation (TR 2.34) - Functional Performance Testing	15	26-Jul-18	15-Aug-18	26-Jul-18	15-Aug-18	0	0	0	[Gantt Bar: 26-Jul-18 to 15-Aug-18]												
MEP - FPT - 300	North Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Func	15	16-Aug-18	05-Sep-18	16-Aug-18	05-Sep-18	0	0	0	[Gantt Bar: 16-Aug-18 to 05-Sep-18]												
MEP - FPT - 144	South Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Func	15	06-Sep-18	26-Sep-18	06-Sep-18	26-Sep-18	0	0	0	[Gantt Bar: 06-Sep-18 to 26-Sep-18]												
MEP - FPT - 140	Tunnel Ventilation (TR 2.35) - Functional Performance Testing	15	27-Sep-18	17-Oct-18	27-Sep-18	17-Oct-18	0	0	0	[Gantt Bar: 27-Sep-18 to 17-Oct-18]												
MEP - FPT - 230	Functional Tests - COMPLETE	0		17-Oct-18		17-Oct-18	0	0	0	[Gantt Bar: 17-Oct-18 to 17-Oct-18]												
MEP - IFPT - 000	Pre- Test Integrated Functional Performance Testing	10	18-Oct-18	31-Oct-18	18-Oct-18	31-Oct-18	0	0	0	[Gantt Bar: 18-Oct-18 to 31-Oct-18]												
MEP - IFPT - 100	Default - Integrated Functional Performance Testing - 0	1	01-Nov-18	01-Nov-18	01-Nov-18	01-Nov-18	0	0	0	[Gantt Bar: 01-Nov-18 to 01-Nov-18]												
MEP - IFPT - 110	Minor Fire One Direction - Integrated Functional Performance Testing - 1	1	02-Nov-18	02-Nov-18	02-Nov-18	02-Nov-18	0	0	0	[Gantt Bar: 02-Nov-18 to 02-Nov-18]												
MEP - IFPT - 120	Major Fire One Direction - Integrated Functional Performance Testing - 2	1	05-Nov-18	05-Nov-18	05-Nov-18	05-Nov-18	0	0	0	[Gantt Bar: 05-Nov-18 to 05-Nov-18]												

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

August Update (Data Date Sept 1, 2016)		Appendix B2.1 - Longest Path								18-Sep-16 11:39																										
Activity ID	Activity Name	OD	Start	Finish	Last Month Start	Last Month Finish	Start Variance	Finish Variance	Total Float	2017					2018					2019																
										A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J			
MEP - IFPT - 130	Two Fires Same Direction - Integrated Functional Performance Testing - 3	2	06-Nov-18	07-Nov-18	06-Nov-18	07-Nov-18	0	0	0																											
MEP - IFPT - 140	Fire Outside Portal Entrance - Integrated Functional Performance Testing - 4	1	08-Nov-18	08-Nov-18	08-Nov-18	08-Nov-18	0	0	0																											
MEP - IFPT - 150	Maintenance Closure/Special Events - Integrated Functional Performance Testing -	1	08-Nov-18	08-Nov-18	08-Nov-18	08-Nov-18	0	0	0																											
MEP - IFPT - 160	Second Incident - Different Locations - Integrated Functional Performance Testing -	1	09-Nov-18	09-Nov-18	09-Nov-18	09-Nov-18	0	0	0																											
MEP - IFPT - 170	Major/Blocking Debris - Integrated Functional Performance Testing - 7	1	09-Nov-18	09-Nov-18	09-Nov-18	09-Nov-18	0	0	0																											
MEP - IFPT - 180	Wrong Way Vehicle - Integrated Functional Performance Testing - 8	1	12-Nov-18	12-Nov-18	12-Nov-18	12-Nov-18	0	0	0																											
MEP - IFPT - 190	SB Off-ramp Congestion - Integrated Functional Performance Testing - 9	1	13-Nov-18	13-Nov-18	13-Nov-18	13-Nov-18	0	0	0																											
MEP - IFPT - 200	NB Off-ramp Congestion - Integrated Functional Performance Testing - 10	1	13-Nov-18	13-Nov-18	13-Nov-18	13-Nov-18	0	0	0																											
MEP - IFPT - 220	Loss of Utility Power - Integrated Functional Performance Testing - 12	1	14-Nov-18	14-Nov-18	14-Nov-18	14-Nov-18	0	0	0																											
MEP - IFPT - 230	Medical Incident/Stalled Vehicle/Debris/Dead Animal/Pedestrian - Integrated Functio	1	15-Nov-18	15-Nov-18	15-Nov-18	15-Nov-18	0	0	0																											
MEP - IFPT - 240	Maintenance/Moving Operation - Integrated Functional Performance Testing - 14	1	16-Nov-18	16-Nov-18	16-Nov-18	16-Nov-18	0	0	0																											
MEP - IFPT - 250	Earthquake/Flooding/Tsunami/Explosion/Terrorism - Integrated Functional Performa	1	16-Nov-18	16-Nov-18	16-Nov-18	16-Nov-18	0	0	0																											
MEP - IFPT - 260	HAZMAT: Spill Response (Non-Hazardous and Fuel) - Integrated Functional Perform	1	19-Nov-18	19-Nov-18	19-Nov-18	19-Nov-18	0	0	0																											
MEP - IFPT - 270	HAMAT: Hazardous Materials (chemicals, toxic gas, radioactive) - Integrated Funct	1	19-Nov-18	19-Nov-18	19-Nov-18	19-Nov-18	0	0	0																											
MEP - IFPT - 280	Common Response Plan - Integrated Functional Performance Testing - 18	1	19-Nov-18	19-Nov-18	19-Nov-18	19-Nov-18	0	0	0																											
Mile-TIE IN	Tunnel Complete - Start SR 99 Roadway Connections	0		19-Nov-18				0	0																											
Mile-Forecast SC	Substantial Completion (Forecast)	0		19-Nov-18				0	0																											
MEP - iFPT - 300	Integrated Functional Performance Tests - COMPLETE	0		19-Nov-18				0	0																											
Mile-Forecast PW 85	Project Wide - Physical Completion (Forecast)	0		19-Mar-19				0	0																											
Mile-Forecast PW 90	Project Wide - Milestone - Final Completion (Forecast)	0		17-Jul-19				0	0																											

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