

## **Seattle Tunnel Partners monthly schedule – May 2016**

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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.

May Update (Data Date June 1, 2016)		Appendix B2.1 - Longest Path							19-Jun-16 16:41																	
Activity ID	Activity Name	OD	Start	Finish	Last Month Start	Last Month Finish	Start Variance	Finish Variance	2016 2017 2018 2019																	
									M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O
TB 130	Tunnel Boring Safe Haven #3 - Station 219+00	28	29-Apr-16 A	03-Jun-16	29-Apr-16	08-Jun-16	0	3	Tunnel Boring Safe Haven #3 - Station 219+00																	
TB 150	Tunnel Boring Station 219+00 - 226+40	23	06-Jun-16	07-Jul-16	09-Jun-16	20-Jul-16	3	9	Tunnel Boring Station 219+00 - 226+40																	
TB 140	Intervention 1	25	08-Jul-16	11-Aug-16	02-May-16	10-May-16	-47	-65	Intervention 1																	
TB 170	Tunnel Boring Station 226+40 - 246+25	61	12-Aug-16	07-Nov-16	21-Jul-16	02-Sep-16	-16	-45	Tunnel Boring Station 226+40 - 246+25																	
TB 160	Intervention 2	20	08-Nov-16	07-Dec-16	09-Jun-16	17-Jun-16	-106	-119	Intervention 2																	
TB 190	Tunnel Boring Station 246+25 - 270+60	75	08-Dec-16	27-Mar-17	06-Sep-16	12-Oct-16	-65	-113	Tunnel Boring Station 246+25 - 270+60																	
TB 180	Intervention 3	20	28-Mar-17	24-Apr-17	21-Jul-16	29-Jul-16	-172	-185	Intervention 3																	
TB 250	Tunnel Boring Station 270+60 - 287+20	51	25-Apr-17	06-Jul-17	10-Feb-17	07-Mar-17	-51	-85	Tunnel Boring Station 270+60 - 287+20																	
TB 260	Tunnel Boring Complete	0		06-Jul-17		07-Mar-17	-85	-85	Tunnel Boring Complete																	
EX PIT - CON - 100	NCC Remove Break out Struts and Walers	5	07-Jul-17	13-Jul-17	08-Mar-17	14-Mar-17	-85	-85	NCC Remove Break out Struts and Walers																	
EX TB 100	Move TBM into Disassembly Location & Drain Temporary Utilities	5	14-Jul-17	18-Jul-17	15-Mar-17	19-Mar-17	-117	-117	Move TBM into Disassembly Location & Drain Temporary Utilities																	
Remove Temp Util 140	Removal of TBM Temporary Utilities Reach 1 (Station 194+50 - 205+71)	3	19-Jul-17	21-Jul-17	27-Mar-17	29-Mar-17	-80	-80	Removal of TBM Temporary Utilities Reach 1 (Station 194+50 - 205+71)																	
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	31-Aug-16	28-Sep-16	-248	-248	SOUTH BOUND EAST WALLS - Form, Rebar, Imbed MEP, Pour - Reach 1 (Station 194+50 - 205+71)																	
TC Reach 1 - 200	UPPER PORTION SOUTH BOUND WALLS - Shotcrete - Reach 1 (Station 194+50 - 205+71)	22	28-Jul-17	24-Aug-17	29-Mar-17	06-Apr-17	-94	-108	UPPER PORTION SOUTH BOUND WALLS - Shotcrete - Reach 1 (Station 194+50 - 205+71)																	
MEP Reach 1 - 200	SOUTH BOUND - Install Mesh - Reach 1	16	25-Aug-17	15-Sep-17	07-Apr-17	26-Apr-17	-108	-108	SOUTH BOUND - Install Mesh - Reach 1																	
MEP Reach 1 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 1	16	18-Sep-17	06-Oct-17	27-Apr-17	17-May-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 1																	
MEP Reach 2 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 2	12	07-Oct-17	21-Oct-17	18-May-17	02-Jun-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 2																	
MEP Reach 3 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 3	12	23-Oct-17	06-Nov-17	03-Jun-17	17-Jun-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 3																	
MEP Reach 4 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 4	10	07-Nov-17	18-Nov-17	19-Jun-17	30-Jun-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 4																	
MEP Reach 5 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 5	10	20-Nov-17	04-Dec-17	03-Jul-17	14-Jul-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 5																	
MEP Reach 6 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 6	12	05-Dec-17	19-Dec-17	17-Jul-17	31-Jul-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 6																	
MEP Reach 7 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 7	12	20-Dec-17	05-Jan-18	01-Aug-17	15-Aug-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 7																	
MEP Reach 8 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 8	12	08-Jan-18	22-Jan-18	16-Aug-17	30-Aug-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 8																	
MEP Reach 9 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 9	12	23-Jan-18	05-Feb-18	31-Aug-17	15-Sep-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 9																	
MEP Reach 10 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 10	11	06-Feb-18	19-Feb-18	18-Sep-17	29-Sep-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 10																	
MEP Reach 11 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 11	11	20-Feb-18	05-Mar-18	02-Oct-17	13-Oct-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 11																	
MEP Reach 12 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 12	11	06-Mar-18	19-Mar-18	16-Oct-17	27-Oct-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 12																	
MEP Reach 13 - 210	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 13	10	20-Mar-18	31-Mar-18	30-Oct-17	09-Nov-17	-108	-108	SOUTH BOUND - Install Struts, Rods, Eye bolts, Sign & Camera Structures - Reach 13																	
MEP Reach 13 - 220	SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 13	9	02-Apr-18	11-Apr-18	10-Nov-17	21-Nov-17	-108	-108	SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 13																	
MEP Reach 13 - 230	SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Coils	8	12-Apr-18	21-Apr-18	22-Nov-17	04-Dec-17	-108	-108	SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Coils																	
MEP Reach 14 - 220	SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 14	8	12-Apr-18	21-Apr-18	22-Nov-17	04-Dec-17	-108	-108	SOUTH BOUND - Install Fireproofing (1st & 2nd Coat) - Reach 14																	
MEP Reach 14 - 230	SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Coils	8	23-Apr-18	02-May-18	05-Dec-17	14-Dec-17	-108	-108	SOUTH BOUND - Install Fire Supr, Swivel Mounts, Cable (LHD), Struts, Lights, Coils																	
ER 16 - 510	Final Wire Pull / Termination from South Bound Roadway - Electrical Room #16	5	03-May-18	09-May-18	23-Jan-18	29-Jan-18	-72	-72	Final Wire Pull / Termination from South Bound Roadway - Electrical Room #16																	
ER 16 Prefunct - 150	South Bound Roadway Prefunctional Check List for Electrical - ER 16	10	10-May-18	23-May-18	30-Jan-18	12-Feb-18	-72	-72	South Bound Roadway Prefunctional Check List for Electrical - ER 16																	
ER 16 Prefunct - 160	South Bound Roadway Prefunctional Check List for Fire Alarm System - ER 16	5	24-May-18	30-May-18	13-Feb-18	19-Feb-18	-72	-72	South Bound Roadway Prefunctional Check List for Fire Alarm System - ER 16																	
ER 16 Prefunct - 170	South Bound Roadway Prefunctional Check List for Controls - ER 16	5	24-May-18	30-May-18	13-Feb-18	19-Feb-18	-72	-72	South Bound Roadway Prefunctional Check List for Controls - ER 16																	
ER 16 Prefunct - 180	South Bound Roadway Prefunctional Check List for Mechanical - ER 16	12	31-May-18	15-Jun-18	20-Feb-18	07-Mar-18	-72	-72	South Bound Roadway Prefunctional Check List for Mechanical - ER 16																	
Tun Wide Prefunc 60	Maintenance Air Test and Balance (TR2.34)	40	31-May-18	25-Jul-18	20-Feb-18	16-Apr-18	-72	-72	Maintenance Air Test and Balance (TR2.34)																	
Tun Wide Prefunc 70	Prefunctional Check List for Jet & Maintenance Fans	20	31-May-18	27-Jun-18	20-Feb-18	19-Mar-18	-72	-72	Prefunctional Check List for Jet & Maintenance Fans																	
Tun Wide Prefunc 30	Pre- Commissioning Internal Testing - Tunnel Ventilation System	20	28-Jun-18	25-Jul-18	20-Mar-18	16-Apr-18	-72	-72	Pre- Commissioning Internal Testing - Tunnel Ventilation System																	
MEP - FPT - 120	Maintenance Ventilation (TR 2.34) - Functional Performance Testing	15	26-Jul-18	15-Aug-18	17-Apr-18	07-May-18	-72	-72	Maintenance Ventilation (TR 2.34) - Functional Performance Testing																	
MEP - FPT - 300	North Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Functional Performance Testing	15	16-Aug-18	05-Sep-18	08-May-18	28-May-18	-72	-72	North Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Functional Performance Testing																	
MEP - FPT - 144	South Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Functional Performance Testing	15	06-Sep-18	26-Sep-18	29-May-18	18-Jun-18	-72	-72	South Bound Tunnel Airflow Verification (TR 2.35.5.2.1.1 & TR 2.35.5.2.1.1)- Functional Performance Testing																	
MEP - FPT - 140	Tunnel Ventilation (TR 2.35) - Functional Performance Testing	15	27-Sep-18	17-Oct-18	19-Jun-18	09-Jul-18	-72	-72	Tunnel Ventilation (TR 2.35) - Functional Performance Testing																	
MEP - FPT - 230	Functional Tests - COMPLETE	0		17-Oct-18		09-Jul-18	-72	-72	Functional Tests - COMPLETE																	
MEP - IFPT - 000	Pre - Test Integrated Functional Performance Testing	10	18-Oct-18	31-Oct-18	10-Jul-18	23-Jul-18	-72	-72	Pre - Test Integrated Functional Performance Testing																	
MEP - IFPT - 100	Default - Integrated Functional Performance Testing - 0	1	01-Nov-18	01-Nov-18	24-Jul-18	24-Jul-18	-72	-72	Default - Integrated Functional Performance Testing - 0																	

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

TASK filters: (Untitled Filter)\_1, Longest Path, Longest Path, No for Payment Purposes, No level of Effort.

