

Appendix D
Existing and Future
Intersection Level of Service Results

Existing Conditions

TABLE D-1
Existing 2007 AM and PM Peak-Hour Intersection LOS – Segment A

Intersection	Jurisdiction	Control Type	Existing				
			AM		PM		
			LOS	Delay	LOS	Delay	
City of Seattle							
Rainier Avenue South & South Dearborn	Seattle	Signal	D	41	F	94	
Rainier Avenue South & South Massachusetts St.	Seattle	Signal	C	26	B	17	
Rainier Avenue South & 23rd Avenue South	Seattle	Signal	C	28	D	40	
Rainier Avenue South & I-90 EB Off-Ramp	WSDOT	Signal	B	12	B	19	
Dearborn Street & I-5 Southbound Ramp	WSDOT	Signal	A	7	A	7	
Dearborn Street & I-5 Northbound Ramp	WSDOT	Signal	B	16	B	18	
I-90 & 4th Avenue South	Seattle	Signal	C	28	E	65	
South Royal Brougham Way & 4th Avenue South	Seattle	Signal	D	49	F	118	
Airport Way South & 4th Avenue South	Seattle	Signal	C	27	D	37	
Airport Way S & S Dearborn Street	WSDOT	Signal	D	39	D	40	
4th Ave NB off Ramp & Edgar Martinez Dr S.	WSDOT	Signal	B	15	E	73	
City of Mercer Island							
West Mercer Way & I-90 Ramps	WSDOT	TWSC	B	10	B	11	
West Mercer Way & 24th Avenue SE	Mercer Island	AWSC	B	10	B	12	
80th Avenue SE & SE 27th Street	Mercer Island	AWSC	B	13	C	23	
80th Avenue SE & I-90 EB HOV On Ramp	WSDOT	TWSC	N/A	N/A	N/A	N/A	
80th Avenue SE & I-90 WB HOV Off Ramp	WSDOT	TWSC	N/A	N/A	N/A	N/A	
80th Avenue SE & I-90 Express Lanes Ramp	WSDOT	TWSC	B	11	A	2	
80th Avenue SE & North Mercer Way	WSDOT	Signal	B	12	B	12	
77th Avenue SE & Sunset Highway	Mercer Island	TWSC	C	16	C	16	
77th Avenue SE & I-90 Express Lanes Ramp	WSDOT	TWSC	A	8	C	19	
77th Avenue SE & I-90 EB HOV Off Ramp	WSDOT	TWSC	N/A	N/A	N/A	N/A	
77th Avenue SE & I-90 EB Off-Ramp	WSDOT	TWSC	B	11	B	12	
77th Avenue SE & North Mercer Way	Mercer Island	TWSC	D	25	C	20	
77th Avenue SE & 27th Street	Mercer Island	AWSC	C	19	E	44	
76th Avenue SE/North Mercer Way & I-90 WB On-Ramp	WSDOT	AWSC	B	11	C	17	
76th Avenue SE & 24th Avenue SE	Mercer Island	AWSC	B	10	B	12	
Island Crest Way & I-90 EB On-Ramp	Mercer Island	Signal	B	16	B	18	
Island Crest Way & I-90 WB Off-Ramp	WSDOT	Signal	B	17	B	13	
East Mercer Way & I-90 EB Off-Ramp	WSDOT	Signal	A	7	A	6	
East Mercer Way & I-90 EB On-Ramp	WSDOT	Signal	B	10	B	10	
East Mercer Way & I-90 WB Ramps	WSDOT	AWSC	D	28	F	65	

Notes: Bold type text indicates where intersections fail to meet agency LOS standards: Mercer Island is LOS C, Seattle is LOS D, and WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

AWSC – All-way stop controlled intersection, TWSC – Two-way stop controlled intersection.

TABLE D-2
Existing 2007 PM Peak-Hour Intersection LOS - Segment B

Intersection	Jurisdiction	Control Type	Existing	
			LOS	Delay
112th Avenue SE & Bellevue Way SE	Bellevue	Signal	C	34
112th Avenue SE & SE 8th Street	Bellevue	Signal	B	14
118th Avenue SE & SE 8th Street	WSDOT	Signal	F	>150
1-405 NB Ramps & SE 8th Street	WSDOT	Signal	C	26
I-405 SB Ramps & SE 8th Street	WSDOT	Signal	C	23
Bellevue Way SE & SE 30th Street ^a	Bellevue	TWSC	F / F	119 / >150
Bellevue Way SE and South Bellevue Park-and-Ride (S)	Bellevue	TWSC	D	27
Bellevue Way SE and South Bellevue Park-and-Ride (N)	Bellevue	TWSC	B	11
114th Avenue SE & SE 6th Street	Bellevue	TWSC	D	33
SE 8th Street & 114th Avenue SE (Bellefield Business Park)	Bellevue	Signal	B	12
Bellevue Way SE & 108th Avenue SE	Bellevue	Signal	C	24
Bellevue Way SE & SE 16th Street	Bellevue	Signal	A	7
Bellevue Way SE & 104th Avenue SE	Bellevue	Signal	A	5
Bellevue Way SE & SE 10th Street	Bellevue	Signal	A	6
Bellevue Way SE & 112th Avenue SE/South Bellevue Park-and-Ride ^a	Bellevue	Signal	C / F	26 / 110
112th Avenue SE and SE 15th Street	Bellevue	TWSC	F	139
I-405 northbound ramps and Coal Creek Parkway SE	WSDOT	Signal	D	40
I-405 southbound ramps and Coal Creek Parkway SE	WSDOT	Signal	E	75
119th Avenue SE and Coal Creek Parkway SE	WSDOT	Signal	C	27

Notes:

^a Bellevue Way SE & SE 30th Street and Bellevue Way SE & South Bellevue P&R intersection results are report for both AM and PM peak hours (AM / PM LOS and AM / PM Delay).

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue is LOS D and WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

N/A – intersection is not evaluated in this condition.

AWSC – All-way stop controlled intersection, TWSC – Two-way stop controlled intersection.

TABLE D-3
Existing 2007 PM Peak-Hour Intersection LOS – Segment C

Intersection	Jurisdiction	Control Type	Existing	
			LOS	Delay
112th Venue SE & SE 6th Street	Bellevue	Signal	A	8
Bellevue Way SE & SE Wolverine Way	Bellevue	Signal	B	16
Bellevue Way & Main Street	Bellevue	Signal	E	62
Bellevue Way NE & NE 2nd Street	Bellevue	Signal	C	25
Bellevue Way NE and NE 4th Street	Bellevue	Signal	E	61
Bellevue Way NE and NE 6th Street	Bellevue	Signal	A	5
Bellevue Way NE and NE 8th Street	Bellevue	Signal	E	65
Bellevue Way NE and NE 10th Street	Bellevue	Signal	C	20
Bellevue Way NE and NE 12th Street	Bellevue	Signal	D	55
112th Avenue NE & NE 12th Street	Bellevue	Signal	D	53
112th Avenue NE & NE 10th Street	Bellevue	Signal	B	11
112th Avenue NE & NE 8th Street/I-405 SB Ramp	WSDOT	Signal	F	106
112th Avenue NE & NE 6th Street	WSDOT	Signal	B	10
112th Avenue NE & NE 4th Street	WSDOT	Signal	D	36
112th Avenue NE & NE 2nd Street	Bellevue	Signal	B	16
112th Avenue & Main Street	Bellevue	Signal	E	74
110th Avenue NE & NE 12th Street	Bellevue	Signal	A	8
110th Avenue NE & NE 10th Street	Bellevue	Signal	B	11
110th Avenue NE & NE 8th Street	Bellevue	Signal	C	27
110th Avenue NE & NE 6th Street	Bellevue	Signal	C	24
110th Avenue NE & NE 4th Street	Bellevue	Signal	C	33
110th Avenue NE & NE 2nd Street	Bellevue	Signal	B	18
110th Avenue & Main Street	Bellevue	Signal	B	11
108th Avenue NE & NE 12th Street	Bellevue	Signal	B	18
108th Avenue NE & NE 10th Street	Bellevue	Signal	B	12
108th Avenue NE & NE 8th Street	Bellevue	Signal	D	45
108th Avenue NE & NE 6th Street	Bellevue	Signal	D	36
108th Avenue NE & NE 4th Street	Bellevue	Signal	D	53
108th Avenue NE & NE 2nd Street	Bellevue	Signal	B	17
108th Avenue & Main Street	Bellevue	Signal	A	8
106th Avenue NE & NE 12th Street	Bellevue	Signal	A	9
106th Avenue NE & NE 10th Street	Bellevue	Signal	A	10
106th Avenue NE & NE 8th Street	Bellevue	Signal	D	44
106th Avenue NE & NE 6th Street	Bellevue	Signal	A	5
106th Avenue NE & NE 4th Street	Bellevue	Signal	D	36
106th Avenue NE & NE 2nd Street	Bellevue	Signal	B	16
106th Avenue NE & Main Street	Bellevue	Signal	A	9
NE 4th Street & I-405 SB Ramp	WSDOT	Signal	C	24
NE 4th Street & I-405 NB Ramp	WSDOT	Signal	C	28
116th Avenue NE & NE 12th Street	Bellevue	Signal	D	42
116th Avenue NE & NE 10th Street	Bellevue	Signal	B	12
116th Avenue NE & NE 8th Street	WSDOT	Signal	E	62
116th Avenue NE & NE 4th Street	WSDOT	Signal	C	27

TABLE D-3
Existing 2007 PM Peak-Hour Intersection LOS – Segment C

Intersection	Jurisdiction	Control Type	Existing	
			LOS	Delay

Notes: Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

AWSC – All-way stop controlled intersection, TWSC – Two-way stop controlled intersection.

TABLE D-4
Existing 2007 PM Peak-Hour Intersection LOS – Segment D

Intersection	Jurisdiction	Control Type	Existing	
			LOS	Delay
City of Bellevue				
120th Avenue NE & NE 12th Street	Bellevue	Signal	C	25
124th Avenue NE & Northup Way	WSDOT	Signal	C	33
124th Avenue NE & Bel-Red Road	Bellevue	Signal	D	42
130th Avenue NE & Bel-Red Road	Bellevue	Signal	C	24
130th Avenue NE & NE 20th Street	Bellevue	Signal	C	26
132nd Avenue NE & Bel-Red Road	Bellevue	Signal	B	16
132nd Avenue NE & NE 16th Street	Bellevue	TWSC	B	14
132nd Avenue NE & NE 20th Street	Bellevue	Signal	B	16
136th Avenue NE & NE 16th Street	Bellevue	TWSC	B	12
136th Avenue NE & NE 20th Street	Bellevue	Signal	B	10
140th Avenue NE & 20th Avenue	Bellevue	Signal	D	48
NE 20th Street & Mall Entrance	Bellevue	Signal	B	12
City of Redmond				
148th Avenue NE & SR 520 WB Ramps	WSDOT	Signal	E	59
148th Avenue NE & SR 520 EB Ramps	WSDOT	Signal	C	28
NE 24th Street & 148th Avenue NE	Redmond	Signal	E	75
NE 24th Street & 151st Avenue NE	Redmond	Signal	B	18
NE 20th Street & 152nd Avenue NE	Redmond	TWSC	C	20
NE 24th Street & 152nd Avenue NE	Redmond	Signal	C	21
NE 26th Street & 152nd Avenue NE	Redmond	Signal	A	4
NE 24th Street & Bel-Red Road	Redmond	Signal	C	31
NE 40th Street & 148th Avenue NE	Redmond	Signal	C	30
NE 40th Street & SR 520 WB Ramps	WSDOT	Signal	C	29
NE 40th Street & SR 520 EB Ramps	WSDOT	Signal	B	19
NE 40th Street & 156th Avenue NE	Redmond	Signal	D	49
Overlake P&R Entrance & 156th Avenue NE	Redmond	Signal	A	8
NE 36th Street & 156th Avenue NE	Redmond	Signal	D	43
NE 31st Street & 156th Avenue NE	Redmond	Signal	C	33
148th Avenue NE & 20th Avenue	Redmond	Signal	E	79

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue, Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

AWSC – All-way stop controlled intersection, TWSC – Two-way stop controlled intersection.

TABLE D-5
Existing 2007 PM Peak-Hour Intersection LOS – Segment E

Intersection	Jurisdiction	Control Type	Existing	
			LOS	Delay
NE Leary Way & West Lake Sammamish Pkwy.	WSDOT	Signal	F	80
NE Leary Way & 159th Place NE	Redmond	Signal	B	14
NE Leary Way & Bear Creek Parkway	Redmond	Signal	B	12
NE Leary Way & NE 76th Street	Redmond	TWSC	A	10
Redmond Way & 161st Avenue NE	Redmond	Signal	C	26
NE 83rd Street & 161st Avenue NE	Redmond	Signal	B	12
NE 85th Street & 161st Avenue NE	Redmond	Signal	C	27
164th Avenue NE & SR 202	Redmond	Signal	B	14
164th Avenue NE & NE 76th Street	Redmond	TWSC	B	10
164th Avenue NE & Cleveland Street	Redmond	Signal	B	16
164th Avenue NE & NE 80th Street	Redmond	Signal	C	25
164th Avenue NE & NE 85th Street	Redmond	Signal	D	37
166th Avenue NE & SR 202	Redmond	Signal	B	18
166th Avenue NE & NE 76th Street	Redmond	TWSC	C	17
166th Avenue NE & NE Cleveland Street	Redmond	Signal	B	14
166th Avenue NE & NE 80th Street	Redmond	Signal	B	14
NE 76th Street & Bear Creek Parkway	Redmond	TWSC	D	34
SR 202 & SR 520 WB Ramps	WSDOT	Signal	E	70
SR 202 & SR 520 EB Ramps	WSDOT	Signal	C	30
SR 202 & NE 70th Street	Redmond	Signal	C	22
NE 70th Street & 176th Avenue NE	Redmond	TWSC	B	11
178th Place NE & Union Hill Road	Redmond	Signal	B	16
Avondale Road NE & Union Hill Road	Redmond	Signal	F	147
E Lake Sammamish Parkway & NE 65th Street	Redmond	Signal	C	29
SR 202 & E Lake Sammamish Parkway (180th Avenue NE)	Redmond	Signal	F	85

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

AWSC – All-way stop controlled intersection, TWSC – Two-way stop controlled intersection.

Future 2020 and 2030 Intersection LOS Results

TABLE D-6
Existing 2007, 2020, and 2030 No-Build and Build AM Peak-Hour Intersection LOS – Segment A

Intersection	Existing		2020 AM								2030 AM									
	AM		No-Build		Build ^a		Build ^b		Build ^c		No-Build		Build ^a		Build ^b		Build ^c			
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay		
Seattle																				
Rainier Avenue South & South Dearborn	D	41	D	38	D	42	D	42	D	42	D	43	D	48	D	48	D	48	D	48
Rainier Avenue South & South Massachusetts St.	C	26	C	27	D	38	D	38	D	38	C	33	D	48	D	48	D	48	D	48
Rainier Avenue South & 23rd Avenue South	C	28	C	26	C	28	C	28	C	28	C	32	C	31	C	31	C	31	C	31
Rainier Avenue South & I-90 EB Off-Ramp	B	12	B	10	B	11	B	11	B	11	B	12	B	13	B	13	B	13	B	13
Dearborn Street & I-5 Southbound Ramp	A	7	A	7	A	7	A	7	A	7	A	7	A	7	A	7	A	7	A	7
Dearborn Street & I-5 Northbound Ramp	B	16	B	12	B	12	B	12	B	12	B	13	B	13	B	13	B	13	B	13
I-90 & 4th Avenue South	C	28	C	22	C	24	C	24	C	24	B	18	C	21	C	21	C	21	C	21
South Royal Brougham Way & 4th Avenue South	D	49	C	25	C	25	C	25	C	25	D	36	C	35	C	35	C	35	C	35
Airport Way South & 4th Avenue South	C	27	C	27	C	28	C	28	C	28	C	34	D	37	D	37	D	37	D	37
Airport Way S & S Dearborn Street	D	39	D	39	C	26	C	26	C	26	D	50	C	30	C	30	C	30	C	30
4th Ave NB off Ramp & Edgar Martinez Dr S.	B	15	B	13	B	15	B	15	B	15	B	10	B	11	B	11	B	11	B	11
Mercer Island																				
West Mercer Way & I-90 Ramps	B	10	B	11	B	12	B	11	B	12	B	11	B	12	B	12	B	12	B	13
West Mercer Way & 24th Avenue SE	B	10	B	14	B	14	B	13	B	14	B	14	B	14	B	14	B	14	B	15
80th Avenue SE & SE 27th Street	B	13	C	18	C	18	C	18	C	18	C	20	C	20	C	21	C	20	C	20
80th Avenue SE & I-90 EB HOV On Ramp	--	--	A	1	A	1	A	1	A	1	A	1	A	1	A	1	A	1	A	1
80th Avenue SE & I-90 WB HOV Off Ramp	--	--	B	14	B	14	B	14	B	14	B	14	B	15	B	15	B	15	B	15
80th Avenue SE & I-90 Express Lanes Ramp	B	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
80th Avenue SE & North Mercer Way	B	12	B	13	B	11	B	11	B	11	B	13	B	12	B	12	B	12	B	12
77th Avenue SE & Sunset Highway	C	16	C	23	C	20	D	25	C	23	C	24	C	20	D	25	C	23	C	23
77th Avenue SE & I-90 Express Lanes Ramp	A	8	A	7	--	--	--	--	--	--	A	7	--	--	--	--	--	--	--	--

TABLE D-6
Existing 2007, 2020, and 2030 No-Build and Build AM Peak-Hour Intersection LOS – Segment A

Intersection	Existing		2020 AM								2030 AM							
	AM		No-Build		Build ^a		Build ^b		Build ^c		No-Build		Build ^a		Build ^b		Build ^c	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
77th Avenue SE & I-90 EB HOV Off Ramp	--	--	B	12	--	--	B	13	--	--	B	12	--	--	B	14	--	--
77th Avenue SE & I-90 EB Off-Ramp	B	11	C	16	B	13	C	15	B	14	C	16	B	13	C	16	B	14
77th Avenue SE & North Mercer Way	D	25	C	21	C	20	C	20	C	21	C	23	C	22	C	21	C	24
77th Avenue SE & 27th Street	C	19	A	9	A	9	B	10	B	10	A	9	A	9	B	11	B	10
76th Avenue SE/North Mercer Way & I-90 WB On-Ramp	B	11	B	11	C	16	C	16	C	16	B	12	C	18	C	18	C	19
76th Avenue SE & 24th Avenue SE	B	10	B	11	B	12	B	12	B	13	B	11	B	13	B	13	B	13
Island Crest Way & I-90 EB On-Ramp	B	16	B	19	B	17	B	17	B	17	C	20	C	21	C	21	C	21
Island Crest Way & I-90 WB Off-Ramp	B	17	B	18	B	18	B	18	B	18	C	20	C	20	C	20	C	20
East Mercer Way & I-90 EB Off-Ramp	A	7	A	5	A	5	A	5	A	5	A	5	A	6	A	6	A	6
East Mercer Way & I-90 EB On-Ramp	B	10	B	15	B	14	B	14	B	14	B	15	B	17	B	16	B	17
East Mercer Way & I-90 WB Ramps	D	28	C	23	C	22	C	22	C	22	C	23	C	27	C	26	C	27

Notes:

-- Intersection is not provided in this condition.

Bold type text indicates where intersections fail to meet agency LOS standards: Mercer Island is LOS C, Seattle is LOS D, and WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

^a Build condition - results for *Preferred Alternative A1* which provides an eastbound HOV direct-access off-ramp at Island Crest Way.

^b Build condition - results for the design option to provide an eastbound HOV direct-access off-ramp at 77th Avenue SE.

^c Build condition - results for the design option to provide no eastbound HOV direct-access ramp on Mercer Island.

TABLE D-7
Existing 2007, 2020, and 2030 No-Build and Build PM Peak-Hour Intersection LOS – Segment A

Intersection	Existing		2020 PM								2030 PM								
	PM		No-Build		Build ^a		Build ^b		Build ^c		No-Build		Build ^a		Build ^b		Build ^c		
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	
Seattle																			
Rainier Avenue South & South Dearborn	F	94	F	83	F	82	F	82	F	82	F	94	F	95	F	95	F	95	
Rainier Avenue South & South Massachusetts St.	B	17	B	19	C	21	C	21	C	21	B	19	C	24	C	24	C	24	
Rainier Avenue South & 23rd Avenue South	D	40	E	57	E	61	E	61	E	61	F	85	F	88	F	88	F	88	
Rainier Avenue South & I-90 EB Off-Ramp	B	19	B	14	C	20	C	20	C	20	C	20	C	21	C	21	C	21	
Dearborn Street & I-5 Southbound Ramp	A	7	A	7	A	8	A	8	A	8	A	9	A	9	A	9	A	9	
Dearborn Street & I-5 Northbound Ramp	B	18	C	23	B	15	B	15	B	15	C	24	C	24	C	24	C	24	
I-90 & 4th Avenue South	E	65	B	14	B	17	B	17	B	17	B	17	B	18	B	18	B	18	
South Royal Brougham Way & 4th Avenue South	F	118	D	49	D	47	D	47	D	47	F	119	F	118	F	118	F	118	
Airport Way South & 4th Avenue South	D	37	C	32	C	34	C	34	C	34	C	33	D	38	D	38	D	38	
Airport Way S & S Dearborn Street	D	40	D	53	C	35	C	35	C	35	F	83	D	37	D	37	D	37	
4th Ave NB off Ramp & Edgar Martinez Dr S.	E	73	B	18	C	21	C	21	C	21	B	19	B	19	B	19	B	19	
Mercer Island																			
West Mercer Way & I-90 Ramps	B	11	B	13	C	16	C	15	C	16	B	13	C	17	C	15	C	17	
West Mercer Way & 24th Avenue SE	B	12	C	19	E	40	E	36	E	43	C	23	E	48	E	44	E	51	
80th Avenue SE & SE 27th Street	C	23	D	28	D	32	D	34	D	32	E	38	E	47	E	50	E	47	
80th Avenue SE & I-90 EB HOV On Ramp	--	--	A	2	A	2	A	2	A	2	A	2	A	2	A	2	A	2	
80th Avenue SE & I-90 WB HOV Off Ramp	--	--	C	19	C	24	C	24	C	24	C	24	E	35	E	36	D	32	
80th Avenue SE & I-90 Express Lanes Ramp	A	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
80th Avenue SE & North Mercer Way	B	12	B	14	B	14	B	14	B	14	B	15	B	17	B	16	B	17	
77th Avenue SE & Sunset Highway	C	16	C	19	C	18	C	25	C	20	C	21	C	22	D	34	C	24	
77th Avenue SE & I-90 Express Lanes Ramp	C	19	C	21	--	--	--	--	--	--	C	22	--	--	--	--	--	--	
77th Avenue SE & I-90 EB HOV Off Ramp	--	--	B	14	--	--	F	62	--	--	B	15	--	--	F	89	--	--	

TABLE D-7
Existing 2007, 2020, and 2030 No-Build and Build PM Peak-Hour Intersection LOS – Segment A

Intersection	Existing		2020 PM								2030 PM							
	PM		No-Build		Build ^a		Build ^b		Build ^c		No-Build		Build ^a		Build ^b		Build ^c	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
77th Avenue SE & I-90 EB Off-Ramp	B	12	B	14	C	16	C	20	C	17	B	15	C	19	C	22	C	20
77th Avenue SE & North Mercer Way	C	20	E	37	E	43	E	43	E	43	E	49	F	74	F	74	F	74
77th Avenue SE & 27th Street	E	44	B	10	A	9	B	12	B	11	B	11	B	11	B	13	B	12
76th Avenue SE/North Mercer Way & I-90 WB On-Ramp	C	17	E	46	E	49	E	49	E	49	F	51	F	60	F	60	F	60
76th Avenue SE & 24th Avenue SE	B	12	B	14	C	15	C	15	C	15	B	15	C	16	C	16	C	16
Island Crest Way & I-90 EB On-Ramp	B	18	B	18	C	23	C	23	C	23	C	24	C	25	C	23	C	25
Island Crest Way & I-90 WB Off-Ramp	B	13	D	40	D	44	D	44	D	44	E	77	E	79	E	79	E	79
East Mercer Way & I-90 EB Off-Ramp	A	6	A	6	A	7	A	7	A	7	A	7	A	6	A	8	A	6
East Mercer Way & I-90 EB On-Ramp	B	10	B	19	B	18	B	18	B	18	C	21	B	18	B	22	B	18
East Mercer Way & I-90 WB Ramps	F	65	C	24	C	25	C	25	C	25	C	26	C	35	C	39	C	35

Notes:

-- Intersection is not provided in this condition.

Bold type text indicates where intersections fail to meet agency LOS standards: Mercer Island is LOS C, Seattle is LOS D, and WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

^a Build condition - results for *Preferred Alternative A1* which provides an eastbound HOV direct-access off-ramp at Island Crest Way.

^b Build condition - results for the design option to provide an eastbound HOV direct-access off-ramp at 77th Avenue SE.

^c Build condition - results for the design option to provide no eastbound HOV direct-access ramp on Mercer Island.

TABLE D-8
Future 2020 PM Peak-Hour Intersection LOS – Segment B

Intersection	2020															
	No-Build		B2M-C9T		B2M-C11A		B1		B2A		B2E		B3		B7	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
Bellevue SE & Bellevue Way SE	C	24	C	28	C	30	E	78	E	75	C	28	E	74	C	25
Bellevue SE & SE 8th Street	C	22	C	22	C	28	B	19	C	29	B	18	C	33	C	25
Bellevue SE & SE 8th Street	F	138	F	144	F	142	F	142	F	141	F	139	F	139	F	224
Bellevue Ramps & SE 8th Street	C	23	C	22	C	22	C	24	C	28	C	29	C	22	C	30
Bellevue Ramps & SE 8th Street	C	28	C	26	C	26	C	27	C	26	C	25	C	29	C	25
Bellevue SE & SE 30th Street*	F	>300	A	7	A	7	F	65	A	7	A	7	A	7	F	>300
Bellevue SE & South Bellevue P&R	C	26	C	29	C	29	D	48	C	29	C	29	C	29	C	26
Bellevue SE & South Bellevue P&R	B	10	B	12	B	12	B	14	B	12	B	12	B	12	B	10
Bellevue SE & SE 6th Street	D	34	D	35	D	35	D	35	D	35	D	35	D	35	D	34
Bellevue SE & 114th Avenue SE (Business Park)	C	20	C	22	C	26	C	23	C	24	C	20	C	23	B	19
Bellevue SE & 108th Avenue SE	B	14	B	16	B	16	C	22	B	18	B	16	B	18	B	15
Bellevue SE & SE 16th Street	A	4	A	4	A	4	B	14	A	3	A	4	A	3	A	4
Bellevue SE & 104th Avenue SE	A	4	A	4	A	4	B	19	A	3	A	4	A	3	A	4
Bellevue SE & SE 10th Street	A	8	A	8	A	8	B	15	A	8	A	8	A	8	A	8
Bellevue SE and 112th Avenue Bellevue Park-and-Ride	D	47	D	43	D	43	D	48	D	42	D	43	D	42	D	47
Bellevue SE and SE 15th Street	F	151	B	14	B	15	F	195	B	15	F	195	B	15	F	167
Bellevue SE Ramps and Coal Creek SE	D	39	D	37	D	36	D	39	D	39	D	39	D	39	D	38
Bellevue SE Ramps and Coal Creek SE	E	60	E	59	E	60	E	59	E	60	E	59	E	60	E	69
Bellevue SE and Coal Creek SE	D	38	D	38	D	38	D	39	D	38	D	39	D	38	D	46

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue is LOS D, and WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-9
Future 2030 PM Peak-Hour Intersection LOS – Segment B

Intersection	2030															
	No-Build		B2M-C9T		B2M-C11A		B1		B2A		B2E		B3		B7	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
ue SE & Bellevue Way SE	C	26	C	31	C	31	F	85	F	87	C	30	F	84	C	26
ue SE & SE 8th Street	C	22	C	25	C	33	C	21	C	32	B	20	C	34	C	24
ue SE & SE 8th Street	F	190	F	190	F	191	F	196	F	195	F	198	F	192	F	271
amps & SE 8th Street	C	24	C	24	C	23	C	24	C	24	C	24	C	24	C	33
amps & SE 8th Street	C	27	C	27	C	27	C	28	C	28	C	28	C	30	C	23
ay SE & SE 30th Street*	F	>300	A	7	A	7	F	57	A	7	A	7	A	7	F	>300
ay SE & South Bellevue P&R	C	28	D	41	D	42	D	52	D	43	D	42	D	43	C	28
ay SE & South Bellevue P&R	B	10	B	12	B	12	B	17	B	12	B	12	B	12	B	10
ue SE & SE 6th Street	F	106	F	110	F	111	F	106	F	114	F	110	F	111	F	106
et & 114th Avenue SE (Business Park)	B	19	C	20	C	28	C	21	C	28	C	22	C	21	B	18
ay SE & 108th Avenue SE	B	18	B	20	B	20	C	26	C	21	B	20	C	21	B	19
ay SE & SE 16th Street	A	4	A	5	A	5	B	18	A	4	A	5	A	4	A	4
ay SE & 104th Avenue SE	A	4	A	4	A	4	C	21	A	4	A	4	A	4	A	4
ay SE & SE 10th Street	A	8	A	8	A	8	B	16	A	8	A	8	A	8	A	8
ay SE and 112th Avenue Bellevue Park-and-Ride	D	55	D	51	D	50	D	54	D	52	D	51	D	52	D	55
ue SE and SE 15th Street	F	135	B	12	C	15	F	178	C	15	F	178	C	15	F	148
ound ramps and Coal Creek	D	51	D	51	D	51	D	51	D	51	D	51	D	51	E	57
ound ramps and Coal Creek	F	102	F	102	F	102	F	102	F	102	F	102	F	102	F	115
ue SE and Coal Creek	D	45	D	45	D	45	D	45	D	45	D	45	D	45	D	51

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue is LOS D, and WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-10
Future 2020 PM Peak-Hour Intersection LOS – Segment C

Intersection	2020																					
	No-Build		C9T		C11A		C1T		C2T		C3T		C4A		C7E		C8E		C9A		C14E	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
112th Avenue SE & SE 6th Street	A	9	A	10	B	13	A	9	A	10	A	10	A	9	A	9	A	9	A	10	A	10
Bellevue Way SE & SE Wolverine Way	B	11	B	11	B	11	B	13	B	11	B	11	B	11	B	11	B	11	B	11	B	11
Bellevue Way & Main Street	F	99	F	105	F	107	F	108	F	108	F	108	F	104	F	108	F	108	F	105	F	103
Bellevue Way NE & NE 2nd Street	C	30	C	31	C	30	C	29	C	31	C	31	C	31	C	33	C	30	C	33	C	34
Bellevue Way NE and NE 4th Street	F	86	F	91	F	96	F	92	F	95	F	94	F	84	F	93	F	92	F	94	F	86
Bellevue Way NE and NE 6th Street	A	1	A	1	A	1	A	2	A	2	A	2	A	2	A	2	A	2	A	1	A	1
Bellevue Way NE and NE 8th Street	E	64	E	72	E	76	E	76	E	76	E	75	E	73	E	75	E	76	E	75	E	71
Bellevue Way NE and NE 10th Street	D	36	D	37	D	36	D	36	D	36	D	37	D	44	D	36	D	36	D	37	D	37
Bellevue Way NE and NE 12th Street	E	67	E	67	E	68	E	68	E	68	E	68	E	58	E	71	E	69	E	67	E	68
112th Avenue NE & NE 12th Street	E	72	E	71	E	70	E	71	E	71	E	77	E	73	E	78	E	80	E	71	E	71
112th Avenue NE & NE 10th Street	D	48	D	46	D	48	D	46	D	46	D	45	D	54	D	47	D	49	D	47	D	49
112th Avenue NE & NE 8th Street/I-405 SB Ramp	F	89	F	89	F	92	F	89	F	87	F	90	F	102	F	91	F	103	F	91	F	87
112th Avenue NE & NE 6th Street	C	23	C	31	C	28	C	25	C	25	C	24	B	20	C	23	C	27	C	34	C	22
112th Avenue NE & NE 4th Street	D	48	D	47	D	52	D	46	D	48	D	44	D	54	D	45	D	54	D	50	D	49
112th Avenue NE & NE 2nd Street	C	34	D	35	D	43	D	35	C	35	D	35	D	38	D	36	D	40	D	36	D	43
112th Avenue & Main Street	F	117	F	116	F	125	F	111	F	115	F	114	F	116	F	113	F	139	F	111	F	119
110th Avenue NE & NE 12th Street	C	21	C	21	C	21	C	21	C	21	C	21	C	26	C	22	B	16	C	20	C	22
110th Avenue NE & NE 10th Street	C	33	C	32	C	34	C	31	C	32	D	36	B	19	C	35	C	30	D	36	C	33
110th Avenue NE & NE 8th Street	E	72	E	72	E	76	E	74	E	73	E	74	E	80	E	75	F	108	E	75	E	77
110th Avenue NE & NE 6th Street	B	18	C	34	C	23	C	30	C	30	B	19	D	45	B	18	C	32	E	75	B	19
110th Avenue NE & NE 4th Street	E	57	E	58	E	58	E	59	E	58	E	60	D	52	E	60	E	59	E	76	E	57
110th Avenue NE & NE 2nd Street	E	62	E	62	E	65	E	63	E	63	E	61	D	35	E	60	E	63	E	58	E	58
110th Avenue & Main Street	B	16	B	17	B	16	B	14	B	13	B	12	C	21	B	13	B	13	C	33	B	17
108th Avenue NE & NE 12th Street	C	30	C	29	C	31	C	29	C	29	C	29	F	87	C	30	C	30	C	30	C	29
108th Avenue NE & NE 10th Street	C	26	C	25	C	26	C	25	C	25	C	25	C	24	C	26	C	23	C	25	C	26
108th Avenue NE & NE 8th Street	D	38	D	42	D	45	D	46	D	47	D	45	D	39	D	43	D	47	D	45	D	40
108th Avenue NE & NE 6th Street	C	23	C	23	C	23	C	25	C	25	C	25	A	10	C	22	C	32	C	27	C	23

TABLE D-10
Future 2020 PM Peak-Hour Intersection LOS – Segment C

Intersection	2020																					
	No-Build		C9T		C11A		C1T		C2T		C3T		C4A		C7E		C8E		C9A		C14E	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
108th Avenue NE & NE 4th Street	E	68	E	72	F	85	E	71	E	71	E	69	D	43	E	68	E	73	E	75	E	77
108th Avenue NE & NE 2nd Street	C	32	C	32	D	42	C	35	C	33	D	35	C	25	C	32	C	32	C	32	C	34
108th Avenue & Main Street	C	24	C	23	E	65	C	22	C	24	C	24	C	31	C	23	C	25	C	27	C	22
106th Avenue NE & NE 12th Street	C	20	C	20	B	17	C	21	B	20	C	21	C	23	B	19	C	21	C	20	B	19
106th Avenue NE & NE 10th Street	C	23	C	23	C	23	C	23	C	23	C	23	C	26	C	22	C	23	C	23	C	23
106th Avenue NE & NE 8th Street	D	46	D	46	D	46	D	46	D	46	D	45	D	47	D	46	D	45	D	45	D	46
106th Avenue NE & NE 6th Street	C	21	C	22	C	21	C	24	C	21	C	23	D	49	C	21	C	23	C	23	C	21
106th Avenue NE & NE 4th Street	D	54	D	53	D	54	D	53	D	54	D	54	D	50	D	55	D	53	D	55	D	54
106th Avenue NE & NE 2nd Street	C	22	C	23	C	22	C	23	C	23	C	20	C	32	C	22	C	23	C	22	C	25
106th Avenue NE & Main Street	C	30	C	31	C	33	C	33	C	31	C	30	D	36	C	29	C	30	C	32	C	31
NE 4th Street & I-405 SB Ramp	C	30	C	30	C	32	C	31	C	30	C	32	C	34	C	31	C	31	C	30	C	33
NE 4th Street & I-405 NB Ramp	C	35	D	35	C	35	C	35	C	34	D	35	C	35	C	35	C	35	C	34	D	35
116th Avenue NE & NE 12th Street	D	41	D	41	D	41	D	41	D	41	D	44	D	44	D	44	D	44	D	41	D	41
116th Avenue NE & NE 10th Street	B	12	B	12	B	12	B	12	B	12	B	13	B	13	B	13	B	13	B	12	B	12
116th Avenue NE & NE 8th Street	D	49	D	51	D	52	D	51	D	51	D	49	D	47	D	49	D	46	D	51	D	51
116th Avenue NE & NE 4th Street	D	54	D	53	D	55	D	53	D	53	D	53	D	52	D	53	D	53	D	53	D	53
116th Avenue NE & NE 10th Street	B	12	B	12	B	12	B	12	B	12	B	13	B	13	B	13	B	13	B	12	B	12
116th Avenue NE & Overlake Hospital & Medical Center	B	13	B	13	B	13	B	12	B	12	B	12	B	13	B	12	B	13	B	13	B	13

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-11
Future 2030 PM Peak-Hour Intersection LOS – Segment C

Intersection	2030																					
	No-Build		C9T		C11A		C1T		C2T		C3T		C4A		C7E		C8E		C9A		C14E	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
112th Avenue SE & SE 6th Street	C	29	C	34	C	21	C	30	C	34	C	34	D	36	C	30	C	32	C	34	C	33
Bellevue Way SE & SE Wolverine Way	B	14	B	13	B	12	B	15	B	12	B	12	B	15	B	12	B	13	B	13	B	12
Bellevue Way & Main Street	F	118	F	122	F	123	F	128	F	122	F	122	F	122	F	125	F	123	F	122	F	120
Bellevue Way NE & NE 2nd Street	C	30	C	30	C	30	C	25	C	30	C	30	C	27	C	29	C	29	C	30	C	30
Bellevue Way NE and NE 4th Street	F	82	F	85	F	80	F	89	F	86	F	86	F	83	F	82	F	84	F	86	F	87
Bellevue Way NE and NE 6th Street	A	3	A	1	A	1	A	1	A	1	A	1	A	1	A	1	A	1	A	1	A	1
Bellevue Way NE and NE 8th Street	E	69	E	76	E	76	E	78	E	76	E	76	E	79	E	74	E	78	E	77	E	71
Bellevue Way NE and NE 10th Street	D	45	D	43	D	45	D	43	D	43	D	44	D	46	D	42	D	41	D	44	D	43
Bellevue Way NE and NE 12th Street	F	101	F	100	F	101	F	100	F	100	F	99	F	81	F	103	F	101	F	100	F	102
112th Avenue NE & NE 12th Street	F	102	F	101	F	101	F	101	F	101	F	111	F	104	F	111	F	115	F	102	F	104
112th Avenue NE & NE 10th Street	D	43	D	44	E	58	D	45	D	45	D	45	E	68	D	50	D	53	D	47	D	50
112th Avenue NE & NE 8th Street/I-405 SB Ramp	F	119	F	119	F	121	F	118	F	118	F	119	F	128	F	118	F	136	F	115	F	117
112th Avenue NE & NE 6th Street	C	27	C	35	D	42	C	33	C	34	C	27	C	21	C	32	C	23	C	33	C	24
112th Avenue NE & NE 4th Street	E	58	E	55	E	63	E	56	E	57	E	56	E	73	E	60	E	66	E	59	E	60
112th Avenue NE & NE 2nd Street	C	32	C	32	D	42	C	32	C	32	C	32	D	41	D	39	D	36	C	35	D	39
112th Avenue & Main Street	F	187	F	189	F	196	F	185	F	189	F	189	F	183	F	176	F	193	F	1191	F	176
110th Avenue NE & NE 12th Street	C	20	C	20	B	20	C	20	C	20	C	21	E	76	C	22	B	19	C	21	C	22
110th Avenue NE & NE 10th Street	D	43	D	46	E	60	D	46	D	46	D	46	C	30	D	45	C	34	D	43	D	45
110th Avenue NE & NE 8th Street	F	120	F	124	F	125	F	118	F	118	F	121	F	177	F	125	F	196	F	129	F	126
110th Avenue NE & NE 6th Street	C	29	E	79	D	44	D	55	D	53	C	24	C	27	B	20	D	38	F	104	D	51
110th Avenue NE & NE 4th Street	E	63	E	59	E	67	E	57	E	57	E	59	E	79	E	61	E	64	E	71	E	64
110th Avenue NE & NE 2nd Street	C	25	C	24	C	27	C	24	C	24	C	24	D	40	C	25	C	25	C	30	C	27
110th Avenue & Main Street	B	18	B	19	D	44	B	19	B	19	B	19	E	74	C	22	C	22	D	36	C	22
108th Avenue NE & NE 12th Street	C	29	C	32	C	32	C	32	C	32	C	33	F	149	C	31	C	31	C	32	C	32
108th Avenue NE & NE 10th Street	C	32	C	27	C	28	C	27	C	27	C	27	C	29	C	27	C	28	C	27	C	27

TABLE D-11
Future 2030 PM Peak-Hour Intersection LOS – Segment C

Intersection	2030																					
	No-Build		C9T		C11A		C1T		C2T		C3T		C4A		C7E		C8E		C9A		C14E	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
108th Avenue NE & NE 8th Street	E	66	E	80	E	70	E	79	E	79	E	79	D	39	E	71	E	79	E	79	E	70
108th Avenue NE & NE 6th Street	C	24	C	24	B	19	C	25	C	25	C	26	B	11	C	23	C	32	C	28	C	24
108th Avenue NE & NE 4th Street	F	96	F	104	F	128	F	109	F	109	F	109	F	96	F	103	F	108	F	109	F	101
108th Avenue NE & NE 2nd Street	B	15	B	15	C	21	B	15	B	15	B	15	C	22	B	17	B	18	B	18	B	17
108th Avenue & Main Street	C	32	C	34	F	86	D	37	C	35	C	35	E	57	C	32	D	40	D	36	D	35
106th Avenue NE & NE 12th Street	D	38	D	37	D	38	D	37	D	37	D	38	D	54	D	37	D	37	D	37	D	37
106th Avenue NE & NE 10th Street	C	28	C	26	C	27	C	26	C	26	C	25	C	27	C	25	C	25	C	24	C	25
106th Avenue NE & NE 8th Street	D	51	D	54	D	55	D	54	D	54	D	54	E	56	D	53	D	53	D	55	D	53
106th Avenue NE & NE 6th Street	B	14	B	16	B	16	B	16	B	16	B	16	B	17	B	16	B	16	B	16	B	17
106th Avenue NE & NE 4th Street	D	55	D	53	E	56	D	53	D	54	D	53	E	63	D	55	D	50	D	52	D	55
106th Avenue NE & NE 2nd Street	C	30	C	29	C	27	C	30	C	29	C	29	C	29	C	29	C	29	C	29	C	29
106th Avenue NE & Main Street	D	43	D	46	D	55	D	52	D	46	D	46	E	79	D	43	D	43	D	49	D	42
NE 4th Street & I-405 SB Ramp	D	46	D	43	D	47	D	43	D	43	D	43	D	48	D	43	D	46	D	42	D	42
NE 4th Street & I-405 NB Ramp	C	33	C	33	C	33	C	33	C	33	C	33	C	33	C	33	C	33	C	33	C	33
116th Avenue NE & NE 12th Street	E	56	E	56	E	56	E	56	E	56	E	59	E	59	E	59	E	59	E	56	E	56
116th Avenue NE & NE 10th Street	B	15	B	15	B	15	B	16	B	16	B	16	B	16	B	16	B	16	B	15	B	15
116th Avenue NE & NE 8th Street	D	52	D	54	D	54	D	54	D	54	D	51	D	51	D	51	D	51	D	55	D	54
116th Avenue NE & NE 4th Street	E	61	E	64	E	63	E	64	E	64	E	61	E	61	E	61	E	60	E	62	E	64
116th Avenue NE & NE 10th Street	B	16	B	16	B	16	B	16	B	16	B	17	B	17	B	17	B	17	B	16	B	16
116th Avenue NE & Overlake Hospital & Medical Center	B	15	B	16	B	16	B	15	B	16	B	16	B	15	B	15	B	15	B	15	B	15

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-12
 2020 and 2030 PM Peak-Hour Intersection LOS at Hospital Interim Terminus

Intersection	2020				2030			
	Build		Interim Terminus		Build		Interim Terminus	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
116th Avenue NE & NE 10th Street	B	12	B	12	B	15	B	15
116th Avenue NE & NE 8th Street	D	49	D	55	D	52	D	54
116th Avenue NE & NE 4th Street	D	54	D	54	E	63	E	62

Notes:

All project alternatives affected by the interim terminus would operate at the same LOS and delay.

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue, Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-13
Future 2020 PM Peak-Hour Intersection LOS – Segment D

Intersection	2020											
	No-Build		D2A		D2A 120th and 24th Design Options		D2E		D3		D5	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
120th Avenue NE & NE 12th Street	C	34	D	36	C	35	C	35	D	36	C	34
120th Avenue NE & NE 16th Street	B	15	C	23	F	108	C	26	C	26	C	26
124th Avenue NE & Northup Way	D	49	D	50	D	50	D	50	D	50	D	48
124th Avenue NE & NE 16th Street	C	24	C	25	C	27	C	28	C	22	C	23
124th Avenue NE & Bel-Red Road	C	33	C	32	C	32	C	32	C	32	C	32
130th Avenue NE & NE 20th Street	C	26	C	28	C	28	C	29	C	29	C	27
130th Avenue NE & NE 16th Street	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
130th Avenue NE & Bel-Red Road	B	12	B	14	B	14	B	14	B	14	B	14
132nd Avenue NE & NE 20th Street	B	12	B	14	B	14	B	12	B	14	B	11
132nd Avenue NE & NE 16th Street	B	19	C	25	C	24	C	21	C	28	B	19
132nd Avenue NE & Bel-Red Road	B	16	C	20	C	20	B	17	C	20	B	16
136th Avenue NE & NE 20th Street	B	13	B	17	B	20	B	18	B	14	B	10
136th Avenue NE & NE 16th Street	B	14	C	28	C	32	B	14	C	25	B	14
140th Avenue NE & 20th Avenue	F	82	F	88	F	88	F	87	F	89	F	84
NE 20th Street & Mall Entrance	B	14	B	14	B	14	B	14	B	19	B	13
148th Avenue NE & SR 520 WB Ramps	D	36	D	35	D	35	D	35	D	35	C	35
148th Avenue NE & SR 520 EB Ramps	C	25	C	23	C	23	C	23	C	23	C	21
NE 24th Street & 148th Avenue NE	F	142	F	142	F	142	F	142	F	142	F	142
NE 24th Street & 151st Avenue NE	C	24	C	24	E	60	F	171	C	31	C	24
NE 20th Street & 152nd Avenue NE	D	40	D	40	D	40	D	40	C	30	D	40
NE 24th Street & 152nd Avenue NE	D	46	D	51	E	58	E	66	D	49	D	54
NE 26th Street & 152nd Avenue NE	B	10	B	16	B	15	B	16	B	14	B	15
NE 24th Street & Bel-Red Road	C	31	C	31	C	31	C	32	C	34	C	31
NE 40th Street & 148th Avenue NE	D	46	D	49	D	49	D	49	D	49	D	49
NE 40th Street & SR 520 WB Ramps	C	27	C	27	C	27	C	27	C	27	C	27
NE 40th Street & SR 520 EB Ramps	C	27	C	28	C	28	C	28	C	28	C	28
NE 40th Street & 156th Avenue NE	E	76	E	77	E	77	E	77	E	77	E	77
Overlake P&R Entrance & 156th Avenue NE	B	17	B	15	B	15	B	15	B	15	B	15
NE 36th Street & 156th Avenue NE	E	71	E	66	E	66	E	66	E	66	E	66
NE 31st Street & 156th Avenue NE	D	43	D	42	D	42	D	42	D	42	D	41
148th Avenue NE & 20th Avenue	F	91	F	90	F	90	F	91	F	114	F	88

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue, Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-14
Future 2030 PM Peak-Hour Intersection LOS – Segment D

Intersection	2030											
	No-Build		D2A		D2A - 120th and 24th Design Options		D2E		D3		D5	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
120th Avenue NE & NE 12th Street	D	37	D	37	D	39	D	37	D	40	D	39
120th Avenue NE & NE 16th Street	C	27	C	29	D	43	C	29	D	38	C	25
124th Avenue NE & Northup Way	D	44	D	47	D	47	D	47	D	48	D	44
124th Avenue NE & NE 16th Street	C	23	C	26	C	28	C	26	C	33	C	27
124th Avenue NE & Bel-Red Road	C	29	C	31	C	32	C	31	D	36	C	31
130th Avenue NE & Bel-Red Road	B	12	A	10	A	10	B	15	A	9	B	11
130th Avenue NE & NE 16th Street	C	31	D	47	D	47	D	42	D	44	D	37
130th Avenue NE & NE 20th Street	C	29	C	30	C	30	C	31	C	31	C	32
132nd Avenue NE & Bel-Red Road	C	22	C	26	C	26	C	26	C	24	C	22
132nd Avenue NE & NE 16th Street	C	33	D	46	D	46	D	45	D	47	D	39
132nd Avenue NE & NE 20th Street	B	14	B	18	B	18	B	17	B	17	B	14
136th Avenue NE & NE 16th Street	C	20	C	26	C	25	B	17	C	21	C	26
136th Avenue NE & NE 20th Street	B	19	D	36	D	36	B	18	C	27	B	18
140th Avenue NE & 20th Avenue	F	132	F	129	F	129	F	127	F	131	F	129
NE 20th Street & Mall Entrance	B	14	B	14	B	14	B	14	B	18	B	14
148th Avenue NE & SR 520 WB Ramps	D	39	D	39	D	39	D	39	D	39	D	39
148th Avenue NE & SR 520 EB Ramps	C	28	C	30	C	30	C	30	C	29	C	29
NE 24th Street & 148th Avenue NE	F	152	F	153	F	152	F	153	F	153	F	153
NE 24th Street & 151st Avenue NE	C	27	C	32	E	79	F	205	C	32	C	29
NE 20th Street & 152nd Avenue NE	A	9	B	12	B	12	B	12	B	17	B	18
NE 24th Street & 152nd Avenue NE	F	83	F	99	F	108	F	109	E	63	F	90
NE 26th Street & 152nd Avenue NE	B	10	B	16	B	16	B	16	B	14	B	16
NE 24th Street & Bel-Red Road	C	35	C	31	C	32	C	34	C	33	C	26
NE 40th Street & 148th Avenue NE	F	87	F	86	F	86	F	86	F	86	F	86
NE 40th Street & SR 520 WB Ramps	C	29	C	29	C	29	C	29	C	29	C	29
NE 40th Street & SR 520 EB Ramps	D	42	D	42	D	42	D	42	D	42	D	42
NE 40th Street & 156th Avenue NE	F	110	F	114	F	114	F	114	F	114	F	114
Overlake P&R Entrance & 156th Avenue NE	B	17	B	17	B	17	B	17	B	17	B	17
NE 36th Street & 156th Avenue NE	F	104	F	91	F	91	F	91	F	91	F	91
NE 31st Street & 156th Avenue NE	D	50	D	53	D	53	D	53	D	52	D	52
148th Avenue NE & 20th Avenue	E	78	E	79	E	79	E	79	E	79	E	79

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue, Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-15
2020 and 2030 AM Peak-Hour Intersection LOS Near Overlake Transit Center Station

Intersection	2007		2020				2030			
	Existing		No Build		Build		No Build		Build	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
NE 40th Street and SR 520 WB Ramps	C	27	C	22	C	22	C	25	C	25
NE 40th Street and SR 520 EB Ramps	D	46	C	22	C	21	C	23	C	24
NE 40th Street and 156th Avenue NE	D	54	D	40	D	44	D	48	D	52
NE 38th Street and 156th Avenue NE	B	12	B	13	B	13	B	11	B	13
NE 36th Street and 156th Avenue NE	C	30	C	21	C	22	C	23	C	22

Notes:

All project alternatives affected by the interim terminus would operate at the same LOS and delay.

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue, Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-16
2020 and 2030 PM Peak-Hour Intersection LOS at Overlake Village Interim Terminus

Intersection	2020				2030			
	Build		Interim Terminus		Build		Interim Terminus	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
156th Avenue NE & NE 31st Street	D	43	D	42	D	50	D	55
152nd Avenue NE & NE 26th Street	B	10	B	19	B	10	B	20
152nd Avenue NE & NE 24th Street	D	45	D	53	F	83	F	98
151st Avenue NE & NE 24th Street	C	24	C	24	C	27	C	31
NE 24th Street & Bel-Red Road	C	31	C	31	C	35	C	33

Notes:

All project alternatives affected by the interim terminus would operate at the same LOS and delay.

Bold type text indicates where intersections fail to meet agency LOS standards: Bellevue, Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-17
 Future 2020 and 2030 PM Peak-Hour Intersection LOS – Segment E

Intersection	2020										2030									
	No-Build		E2		E1		E2		E4		No-Build		E2		E1		E2		E4	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
NE Leary Way & West Lake Sammamish Pkwy.	F	135	F	135	F	136	F	136	F	136	F	172	F	172	F	174	F	174	F	174
NE Leary Way & 159th Place NE	A	6	A	6	A	6	A	6	A	6	B	14	A	7	A	7	A	7	A	8
NE Leary Way & Bear Creek Parkway	C	28	C	27	C	27	C	27	C	28	C	31	C	31	C	31	C	31	D	40
NE Leary Way & NE 76th Street	A	10	B	12	B	12	B	12	B	12	B	10	C	22	D	28	D	28	D	28
Redmond Way & 161st Avenue NE	C	23	C	26	C	23	D	55	C	23	D	37	D	47	D	38	F	174	D	38
Cleveland Street & 161 st Avenue NE	C	23	C	23	C	23	C	22	C	23	C	25	C	23	C	23	E	78	C	23
NE 83rd Street & 161st Avenue NE	B	19	B	18	B	19	C	20	B	19	C	21	C	20	C	20	C	21	C	20
NE 85 th Street & 161 st Avenue NE	C	22	C	24	C	22	C	22	C	22	C	26	C	27	C	25	C	26	C	25
164th Avenue NE & SR 202	B	17	B	18	B	19	B	19	B	19	C	24	C	21	C	22	C	22	C	22
164th Avenue NE & NE 76th Street	C	17	C	21	C	21	C	21	C	21	C	22	D	32	D	32	D	32	D	32
164 th Avenue NE & NE Cleveland Street	D	36	D	43	D	49	D	51	D	51	D	38	D	51	D	55	D	55	D	55
164 th Avenue NE & NE 80 th Street	C	29	C	29	C	29	C	29	C	29	C	33	C	33	C	34	C	34	C	34
164 th Avenue NE & NE 85 th Street	D	52	E	58	E	57	E	59	E	57	F	84	F	88	F	87	F	89	F	87
166th Avenue NE & SR 202	B	15	B	18	B	19	B	19	B	19	C	22	C	27	C	28	C	28	C	28
166th Avenue NE & NE 76th Street	C	20	C	24	D	27	D	27	D	27	C	26	E	42	E	47	E	47	E	47
166 th Avenue NE & Cleveland Street	B	12	B	13	B	15	B	15	B	15	B	13	B	17	B	20	B	20	B	20
166 th Avenue NE & 80 th Street	B	12	B	12	B	12	B	13	B	12	B	13	B	14	B	14	B	14	B	14
NE 76th Street & 170th Avenue NE	F	91	F	93	F	93	F	93	F	93	F	301	F	340	F	340	F	340	F	340
SR 202 & SR 520 WB Ramps	C	21	C	25	C	25	C	25	C	25	C	27	C	33	C	33	C	33	C	33
SR 202 & SR 520 EB Ramps	C	30	C	31	C	31	C	31	C	31	E	55	E	58	E	58	E	58	E	58
SR 202 & NE 70th Street	C	27	D	55	D	55	D	55	D	55	D	52	F	87	F	87	F	87	F	87

TABLE D-17
Future 2020 and 2030 PM Peak-Hour Intersection LOS – Segment E

Intersection	2020										2030									
	No-Build		<i>E2</i>		E1		<i>E2</i>		E4		No-Build		<i>E2</i>		E1		<i>E2</i>		E4	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
NE 70th Street & 176th Avenue NE	B	11	F	128	B	13	F	106	B	13	B	11	F	114	B	13	F	93	B	13
178 th Place NE & Union Hill Road	B	20	C	21	C	21	C	21	C	21	C	23	C	25	C	25	C	25	C	25
Avondale Road NE & Union Hill Road	E	62	E	68	E	68	E	68	E	68	F	82	F	90	F	90	F	90	F	90
E Lake Sammamish Parkway & NE 65 th Street	D	51	D	51	D	51	D	51	D	51	E	59	E	71	E	71	E	71	E	71
SR 202 & E Lake Sammamish Parkway (180 th Avenue NE)	F	93	F	113	F	113	F	113	F	113	F	122	F	146	F	146	F	146	F	146

Notes:

Bold type text indicates where intersections fail to meet agency LOS standards: Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-18
 2020 and 2030 PM Peak-Hour Intersection LOS at Redmond Town Center Interim Terminus

Intersection	2020				2030			
	Build		Interim Terminus		Build		Interim Terminus	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
164th Avenue NE & Redmond Way	B	17	B	19	C	24	C	25
164th Avenue NE & Cleveland Street	D	36	D	51	D	38	D	54
164th Avenue NE & NE 76th Street	B	17	C	21	C	22	D	32
166th Avenue NE & NE Redmond Way	B	15	C	20	C	22	C	32
166th Avenue NE & NE Cleveland Street	B	12	B	17	B	13	B	23
166th Avenue NE & NE 76th Street	C	20	D	27	C	26	E	47

Notes:

All project alternatives affected by the interim terminus would operate at the same LOS and delay.

Bold type text indicates where intersections fail to meet agency LOS standards: Redmond and WSDOT are LOS E.

Delay is measured by average seconds of delay per vehicle.

TABLE D-19
2020 and 2030 AM Peak-Hour Mitigated Intersection LOS – Segment A

Intersection	Jurisdiction	2020													
		No-Build		Preferred Alternative A1		Preferred Alternative A1 Mitigated		77th Ave. SE EB HOV Off-Ramp Design Option		77th Ave. SE EB HOV Off-Ramp Design Option Mitigated		No EB HOV Ramps Design Option		No EB HOV Ramps Design Option Mitigated	
		LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
I-90 EB HOV Off & 77th Ave SE	WSDOT	B	12	N/A	N/A	N/A	N/A	B	13	B	12	N/A	N/A	N/A	N/A
Sunset Hwy & 77th Ave SE	MI	C	23	C	20	N/A	N/A	D	25	A	6	C	23	N/A	N/A
N Mercer Way & 77th Ave SE	MI	C	21	C	20	B	12	C	20	B	12	C	21	B	13
SE 24th St & W Mercer Way	MI	B	14	B	14	B	13	B	13	B	13	B	14	B	13
SE 27th St & 80th Ave SE	MI	C	18	C	18	B	11	C	18	B	11	C	18	B	13
I-90 WB On Ramp & 76th Ave SE	WSDOT	B	11	C	16	B	12	C	16	B	11	C	16	B	12
I-90 EB Off Ramp & 77th Ave SE	WSDOT	C	16	B	13	B	13	C	15	N/A	N/A	B	14	B	14
Intersection	Jurisdiction	2030													
		No-Build		Preferred Alternative A1		Preferred Alternative A1 Mitigated		77th Ave. SE EB HOV Off-Ramp Design Option		77th Ave. SE EB HOV Off-Ramp Design Option Mitigated		No EB HOV Ramps Design Option		No EB HOV Ramps Design Option Mitigated	
		LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
I-90 EB HOV Off & 77th Ave SE	WSDOT	B	12	N/A	N/A	N/A	N/A	B	14	B	13	N/A	N/A	N/A	N/A
Sunset Hwy & 77th Ave SE	MI	C	24	C	20	N/A	N/A	F	51	A	6	C	23	N/A	N/A
N Mercer Way & 77th Ave SE	MI	C	23	C	22	B	16	C	21	B	16	C	24	B	16
SE 24th St & W Mercer Way	MI	B	14	B	14	B	13	B	14	B	13	B	15	B	14
SE 27th St & 80th Ave SE	MI	C	20	C	20	B	14	C	21	B	14	C	20	B	14
I-90 WB On Ramp & 76th Ave SE	WSDOT	B	12	C	18	B	12	C	18	B	12	C	19	B	12
I-90 EB Off Ramp & 77th Ave SE	WSDOT	C	16	B	13	B	14	C	16	N/A	N/A	B	14	B	14

Notes:

Preferred Alternative A1 provides an EB HOV off-ramp at Island Crest Way.

Bold type text indicates where intersections fail to meet agency LOS standards: Mercer Island is LOS C, WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

N/A – mitigation is not required with this option

TABLE D-20
2020 and 2030 PM Peak-Hour Mitigated Intersection LOS – Segment A

Intersection	Jurisdiction	2020													
		No-Build		Preferred Alternative A1		Preferred Alternative A1 Mitigated		77th Ave. SE EB HOV Off-Ramp Design Option		77th Ave. SE EB HOV Off-Ramp Design Option Mitigated		No EB HOV Ramps Design Option		No EB HOV Ramps Design Option Mitigated	
		LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
I-90 EB HOV Off & 77th Ave SE	WSDOT	B	14	N/A	N/A	N/A	N/A	F	62	B	24	N/A	N/A	N/A	N/A
Sunset Hwy & 77th Ave SE	Mercer Island	C	19	C	18	N/A	N/A	C	25	A	6	C	20	N/A	N/A
N Mercer Way & 77th Ave SE	Mercer Island	E	37	E	43	B	13	E	43	B	14	E	43	B	13
SE 24th St & W Mercer Way	Mercer Island	C	19	E	40	C	16	E	36	C	16	E	43	C	16
SE 27th St & 80th Ave SE	Mercer Island	D	28	D	32	B	15	D	34	B	16	D	32	B	14
I-90 WB On Ramp & 76th Ave SE	WSDOT	E	46	E	49	D	26	E	49	D	26	E	49	D	26
I-90 EB Off Ramp & 77th Ave SE	WSDOT	B	14	C	16	B	17	C	20	N/A	N/A	C	17	B	17
Intersection	Jurisdiction	2030													
		No-Build		Preferred Alternative A1		Preferred Alternative A1 Mitigated		77th Ave. SE EB HOV Off-Ramp Design Option		77th Ave. SE EB HOV Off-Ramp Design Option Mitigated		No EB HOV Ramps Design Option		No EB HOV Ramps Design Option Mitigated	
		LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
I-90 EB HOV Off & 77th Ave SE	WSDOT	B	15	N/A	N/A	N/A	N/A	F	89	C	24	N/A	N/A	N/A	N/A
Sunset Hwy & 77th Ave SE	Mercer Island	C	21	C	22	N/A	N/A	D	34	A	6	C	24	N/A	N/A
N Mercer Way & 77th Ave SE	Mercer Island	E	49	F	74	B	13	F	74	B	13	F	74	B	13
SE 24th St & W Mercer Way	Mercer Island	C	23	E	48	C	17	E	44	C	17	F	51	C	18
SE 27th St & 80th Ave SE	Mercer Island	E	38	E	47	B	16	E	50	B	15	E	47	B	17
I-90 WB On Ramp & 76th Ave SE	WSDOT	F	51	F	60	D	34	F	60	D	34	F	60	D	34
I-90 EB Off Ramp & 77th Ave SE	WSDOT	B	15	C	19	B	17	C	22	N/A	N/A	C	20	B	17

Notes:

Preferred Alternative A1 provides an EB HOV off-ramp at Island Crest Way.

Bold type text indicates where intersections fail to meet agency LOS standards: Mercer Island is LOS C, WSDOT is LOS E.

Delay is measured by average seconds of delay per vehicle.

N/A – mitigation is not required with this option

TABLE D-21
 Future 2020 and 2030 PM Mitigated Intersection LOS – Segments B, C, D and E

Intersection	2020 PM						2030 PM					
	No-Build		Build ^a		Build Mitigated*		No-Build		Build ^a		Build Mitigated*	
	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
Segment B												
112th Ave SE & Bellevue Way SE (B1, B2A, B3)	C	24	E	78	D	40	C	26	F	87	D	44
112th Ave SE & SE 15th St (B1, B2E, B7)	F	151	F	195	B	14	F	135	F	178	B	11
I-405 southbound ramps & Coal Creek Parkway SE (B7)	E	60	E	69	D	44	F	102	F	115	E	63
118th Ave SE & SE 8th Street (B7)	F	138	F	224	F	163	F	190	F	271	F	189
Segment C												
Bellevue Way & Main St (C1T)	F	99	F	108	F	99	F	118	F	128	F	112
112th Ave NE & NE 12th St (C3T, C7E, C8E)	E	72	E	79	E	71	F	102	F	115	F	99
112 th Ave NE & NE 8 th St (C8E, C4A)	F	89	F	103	N/A	N/A	F	119	F	136	N/A	N/A
112 th Ave NE & Main St (C11A)	F	117	F	125	E	77	F	187	F	196	F	129
110th Ave NE & NE 8th St (C4A, C8E, C9A)	E	72	F	108	F	90	F	120	F	196	F	144
110th Ave NE & NE 6th St (C9A)	B	18	E	75	N/A	N/A	C	29	F	104	N/A	N/A
108th Ave NE & NE 12th St (C4A)	C	30	F	87	D	48	C	29	F	108	E	79
108th Ave NE & NE 4th St (C9T, C11A, C1T, C2T, C3T, C8E, C9A)	E	68	F	85	N/A	N/A	F	96	F	128	N/A	N/A
108 th Ave NE & Main St (C11A)	C	24	E	70	N/A	N/A	C	32	F	86	N/A	N/A
Segment D												
120th Ave NE & NE 16th St (D2A DO)	B	15	F	88	E	60	C	27	D	43	D	43
151st Ave NE & NE 24th St. (D2E)	C	24	F	171	N/A	N/A	C	27	F	205	N/A	N/A
152nd Ave NE & NE 24th St. (D2A, D2A DO, D2E, D5)	D	46	E	66	D	46	F	83	F	109	E	65
148th Ave NE and NE 20th St (D3)	F	91	F	114	E	72	E	78	E	79	E	79
Segment E												
NE 76th St & 170th Avenue NE (E2, E2 DO, E1, E4)	F	91	F	93	A	6	F	301	F	340	A	7
Redmond Way & 161st Ave NE (E2 DO)	C	23	D	54	C	24	D	37	F	180	E	76
SR 202 & NE 70th St. (E2, E2 DO, E1, E4)	C	27	D	55	D	46	D	52	F	87	E	67
NE 70th St & 176th Ave NE (E2, E2 DO)	B	11	F	128	C	27	B	11	F	114	B	13
SR 202 & E Lake Sammamish Parkway (E2, E2 DO, E1, E4)	F	93	F	113	F	88	F	122	F	147	F	123

Notes:

^a The results presented in this table represent the alternative with the worst LOS and delay. Refer to Tables D-7 through D-12 for alternative-by-alternative intersection LOS results without improvements.

* Build mitigated results are for the alternative that has the worst mitigated LOS and delay.

Bold type text indicates where intersections fail to meet agency LOS standards.

Delay is measured by average seconds of delay per vehicle.

