Project Number: BUD1
Project Title: Bus Bulb Eastbound at NW Market St & 15th Ave NW

Bus Stop Location: NW Market St &15th Avenue NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.

Project Number: BUD2
Project Title: Bus Bulb Eastbound at NW Market St & 14th Ave NW

Bus Stop Location: NW Market St &14th Avenue NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD3
Project Title: Bus Bulb Eastbound at NW Market St & 11th Ave NW

Bus Stop Location: NW Market St &11th Avenue NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD4
Project Title: Bus Bulb Eastbound at NW Market St & 8th Ave NW

Bus Stop Location: NW Market St & 8th Avenue NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD5
Project Title: Bus Bulb Eastbound at NW Market St & 6th Ave NW

Bus Stop Location: NW Market St & 6th Avenue NW/5th Ave NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD6
Project Title: Bus Bulb Eastbound at NW Market St & 3rd Ave NW

Bus Stop Location: NW Market St & 3rd Avenue NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD7
Project Title: Bus Bulb Eastbound at NW Market St & Baker Ave NW

Bus Stop Location: NW Market St & Baker Avenue NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD8
Project Title: Bus Bulb Eastbound at NW Market St & 1st Ave NW

Bus Stop Location: NW Market St & 1st Avenue NW
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD9
Project Title: Bus Bulb Eastbound at N 46th St & Phinney Ave N

Bus Stop Location: N 46th St & Phinney Avenue N
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD10
Project Title: Bus Bulb Eastbound at N 46th St & Fremont Ave N

Bus Stop Location: N 46th St & Fremont Avenue N
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD11
Project Title: Bus Bulb Eastbound at N 46th St & Whitman Ave N

Bus Stop Location: N 46th St & Whitman Avenue N
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD12
Project Title: Bus Bulb Eastbound at N 46th St & Stone Way N

Bus Stop Location: N 45th St & Stone Way N
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD13
Project Title: Bus Bulb Eastbound at N 46th St & Woodlawn Ave N

Bus Stop Location: N 45th St & Woodlawn Avenue N
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD14
Project Title: Transit Signal Priority at N 45th St & Wallingford Ave N

TSP Project Description

Intersection: N 45th St & Wallingford Avenue N
TSP Directions/Movements Eastbound through, westbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of N 45th St & Wallingford. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on N 45th St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 2	Tier 2	Tier 2
Proposed Cycle Length [sec]:	100	100	100
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**12.0**	**12.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	EBT (Inbound)			WBT (Outbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	6	7	6	6	7	6
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD15
Project Title: Bus Bulb Eastbound at N 45th St & Wallingford Ave N

Bus Stop Location: N 45th St & Wallingford Avenue N
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD16
Project Title: Bus Bulb Eastbound at N 45th St & Sunnyside Ave N

Bus Stop Location: N 45th St & Sunnyside Avenue N
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD17
Project Title: Transit Signal Priority at NE 45th St & Thackery Pl NE

TSP Project Description

Intersection: NE 45th St & Thackery Pl NE
TSP Directions/Movements Eastbound through, westbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of N 45th St & Thackery Pl N. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on N 45th St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 1	Tier 2	Tier 1
Proposed Cycle Length [sec]:	120	100	150
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**10.0**	**12.0**	**8.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Eastbound (Inbound)			Westbound (Outbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	5	5	5	5	5	5
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD18
Project Title: Bus Bulb Eastbound at NE 45th St & Thackery Pl NE

Bus Stop Location: NE 45th St & Thackery Pl NE
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD19
Project Title: Transit Signal Priority at NE 45th St & Latona Ave N

TSP Project Description

Intersection: NE 45th St & Latona Avenue NE
TSP Directions/Movements Eastbound through, westbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of N 45th St & Latona Ave NE. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on N 45th St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 2	Tier 2	Tier 2
Proposed Cycle Length [sec]:	120	150	120
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**10.0**	**8.0**	**10.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**12**

TSP Direction/Movement	Eastbound (Inbound)			Westbound (Outbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	5	5	5	5	5	5
Design Bus Headway [min]:	10	12	10	10	12	10

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD20
Project Title: Transit Signal Priority at NE 45th St & 5th Ave NE

TSP Project Description

Intersection: NE 45th St & 5th Avenue NE
TSP Directions/Movements Eastbound through, westbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of N 45th St & 5th Ave NE. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on N 45th St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 2	Tier 2	Tier 2
Proposed Cycle Length [sec]:	100	100	100
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**12.0**	**12.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**12**

TSP Direction/Movement	Eastbound (Inbound)			Westbound (Outbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	5	5	5	5	5	5
Design Bus Headway [min]:	10	12	10	10	12	10

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD21
Project Title: Parking Removal Eastbound at NE 45th St & 5th Ave NE to Latona Ave NE

Location: NE 45th St & 5th Ave NE to Latona Ave NE
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Installation of signs to restrict parking along NE 45th Street eastbound approaching the intersections of Latona Ave NE through 5th Ave NE.

Required Documentation:

Project Number: BUD22
Project Title: Transit Signal Priority at NE 45th St & 7th Ave NE

TSP Project Description

Intersection: NE 45th St & 7th Avenue NE
TSP Directions/Movements Eastbound through, westbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of N 45th St & 7th Ave NE. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on N 45th St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 1	Tier 2	Tier 1
Proposed Cycle Length [sec]:	100	105	85
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**11.4**	**14.1**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Eastbound (Inbound)			Westbound (Outbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	5	10	5	5	5	5
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD23
Project Title: Queue Jump Westbound at NE 45th St & 7th Ave NE

Queue Jump Specifications

Intersection: NE 45th St & Roosevelt Ave NE
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Construction of a westbound right turn only pocket/lane - except for buses and a receiving lane on opposite side of intersection to allow buses to merge back into traffic.
(Assume all construction will occur within existing right of way).

Operating Description

	Eastbound*	Westbound
Hours of Operation	24 hours	24 hours
Other use when not Bus Lane	N/A	N/A

**already in existing baseline condition*

Q-Jump Parameters:

	AM	MD	PM	AM	MD	PM
Advance Green Time [sec]	N/A	N/A	N/A	11.5	8	8
Queue Bypass Distance [ft]	N/A	N/A	N/A	>300	>300	>300
Conflicting Right Turns [veh/hr]	N/A	N/A	N/A	1	95	150

Detection Strategy:

Use wireless detection when both bus and general purpose traffic occupy the lane.

Required Documentation:

These geometrics/channelization changes can be illustrated uisng marked up as builts, paint line sketches, or other baseline drawings or aerials as long as the documentation illustrates key details such as the length of the queue jump, lane width, and the location of any planned detection.

Project Number: BUD24
Project Title: Remove Left Turn Lane at NE 45th & Roosevelt Way

Intersection: NE 45th & Roosevelt Way
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Remove left turn lanes at the intersection of NE 45th & Roosevelt Way.

Signal Timing Parameters

	Inbound movement: EBT			Outbound Movement: WBT		
	AM	MD	PM	AM	MD	PM
Existing Timing						
Cycle Length [sec]	N/A	N/A	N/A	100	100	100
Split [sec]	N/A	N/A	N/A	69	74	74
G/C ratio:	N/A	N/A	N/A	0.69	0.74	0.74
Proposed Timing						
Cycle Length [sec]	N/A	N/A	N/A	100	100	70
Split [sec]	N/A	N/A	N/A	51	59	45
G/C ratio:	N/A	N/A	N/A	0.51	0.59	0.64

Required Documentation, to be submitted with Synchro Model on CD:
Synchro Arterial Level of Service Report (baseline)
Synchro Arterial Level of Service Report (optimized)

Re-timing Interval Commitment Every 5 Years

Note: Proposals that include signal retiming as a proposed improvement project will be expected to commit to retime their signals on a regular basis for the term of the service partnership agreement; the retiming interval need not be more than once every three years but must not be less than once every five years.

Project Number: BUD25
Project Title: Transit Signal Priority at NE 45th St & 15th Ave N

TSP Project Description

Intersection: NE 45th St & 15th Avenue NE
TSP Directions/Movements Northbound Left
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of N 45th St & 15th Ave NE. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on N 45th St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 2	Tier 2	Tier 2
Proposed Cycle Length [sec]:	101	100	120
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**11.9**	**12.0**	**10.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Westbound (Outbound)			Eastbound (Inbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	12	12	12	6	7	6
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	

Communications: Describe existing infrastructure and any planned upgrades.

Copper

Project Number: BUD26
Project Title: Queue Jump at NE 45th St & 15th Ave NE

Queue Jump Specifications

Intersection: NE 45th St & 15th Ave NE
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Construction of left-turn only lane (on right side of roadway) for buses and a westbound receiving lane on opposite side of intersection to allow buses to merge back into traffic.
(Assume all construction will occur within existing right of way).

Operating Description

	Westbound
Hours of Operation	24 hours
Other use when not Bus Lane	N/A

Q-Jump Parameters:

	AM	MD	PM
Advance Green Time [sec]	8	8	8
Queue Bypass Distance [ft]	100	100	100
Conflicting Right Turns [veh/hr]	1	1	1

Detection Strategy:

Use wireless detection when both bus and general purpose traffic occupy the lane.

Required Documentation:

These geometrics/channelization changes can be illustrated uisng marked up as builts, paint line sketches, or other baseline drawings or aerials as long as the documentation illustrates key details such as the length of the queue jump, lane width, and the location of any planned detection.

Project Number: BUD27
Project Title: Bus Bulb Southbound at 15th Ave NE & NE 43rd St.

Bus Stop Location: 15th Ave NE & NE 43rd St.
Direction: Inbound (Eastbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD28

Project Title: BAT Lane Westbound from NE 45th St & 15th Ave NE to NE 45th St & 7th Ave NE, Remove LT lane

Roadway: NE 45th St
From: 15th Ave NE
To: 7th Ave NE
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Construction of a business access and transit lane westbound on NE 45th Street from 15th Ave NE to 7th Ave NE.

Transit Lane Parameters

	Westbound
Hours of Operation	24-hours
Other use when not Bus Lane	N/A

Required Documentation:

* Cross section diagram including lane widths (existing)
* Cross section diagram including lane widths (proposed)
* Channelization sketch showing treatments at intersections.

These geometrics/channelization changes can be illustrated using marked up as-builts, aerials, or typical cross sections as long as the documentation illustrates lane widths and the termini of the bus facility.

Project Number: BUD29
Project Title: Bus Bulb Westbound at N 45th St & Sunnyside Ave N

Bus Stop Location: N 45th St & Sunnyside Ave N
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD30
Project Title: Bus Bulb Westbound at N 45th St & Wallingford Ave N

Bus Stop Location: N 45th St & Wallingford Ave N
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD31
Project Title: Bus Bulb Westbound at N 45th St & Woodlawn Ave N

Bus Stop Location: N 45th St & Wallingford Ave N
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD32
Project Title: Bus Bulb Westbound at N 45th St & Stone Way N

Bus Stop Location: N 45th St & Stone Way N
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD33
Project Title: Bus Bulb Westbound at N 46th St & Whitman Ave N

Bus Stop Location: N 45th St & Whitman Avenue N
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD34
Project Title: Bus Bulb Westbound at N 46th St & Fremont Ave N

Bus Stop Location: N 45th St & Whitman Avenue N
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD35
Project Title: Bus Bulb Westbound at N 46th St & Phinney Ave N

Bus Stop Location: N 45th St & Phinney Avenue N
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD36
Project Title: BAT Lane Westbound on N 46th St & Phinney Ave

Roadway: NE 46th St
From: Phinney Avenue N
To: 1st Avenue N
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Construction of a business access and transit lane westbound on N 46th Street from Fremont Ave to west of Phinney Ave.

Transit Lane Parameters

	Westbound
Hours of Operation	24-hours
Other use when not Bus Lane	N/A

Required Documentation:
* Cross section diagram including lane widths (existing)
* Cross section diagram including lane widths (proposed)
* Channelization sketch showing treatments at intersections.

These geometrics/channelization changes can be illustrated using marked up as-builts, aerials, or typical cross sections as long as the documentation illustrates lane widths and the termini of the bus facility.

Project Number: BUD37
Project Title: Bus Bulb Westbound at NW Market St & 1st Avenue NW

Bus Stop Location: NW Market St & 1st Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD38
Project Title: Bus Bulb Westbound at NW Market St & Baker Avenue NW

Bus Stop Location: NW Market St & Baker Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD39
Project Title: Bus Bulb Westbound at NW Market St & 3rd Avenue NW

Bus Stop Location: NW Market St & 3rd Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD40
Project Title: Bus Bulb Westbound at NW Market St & 6th Avenue NW/5th Ave NW

Bus Stop Location: NW Market St & 6th Ave NW/5th Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD41
Project Title: Bus Bulb Westbound at NW Market St & 8th Avenue NW

Bus Stop Location: NW Market St & 8th Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD42
Project Title: Bus Bulb Westbound at NW Market St & 11th Avenue NW

Bus Stop Location: NW Market St & 11th Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD43
Project Title: Bus Bulb Westbound at NW Market St & 14th Avenue NW

Bus Stop Location: NW Market St & 14th Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD44
Project Title: Bus Bulb Westbound at NW Market St & 15th Avenue NW

Bus Stop Location: NW Market St & 15th Ave NW
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD45
Project Title: Bus Bulb Westbound at NE 45th St & Latona Avenue NE

Bus Stop Location: NE 45th St & Latona Ave NE
Direction: Outbound (Westbound)
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: A concrete bulb will be installed at this bus stop which will convert it into an in-lane stop and will eliminate pull-out delay to buses leaving the bus stop.

Bus Bulb Specifications

Length:	50 feet
Median Treatment:	None

Required Documentation:
Provide a typical bus bulb detail along with a map showing the location at each intersection where the bus bulb will be constructed.
Note:
Typical bus bulb detail is provided in tab BUD1.

Project Number: BUD46
Project Title: Remove Left Turn Lake at NE 45th St & 11th Ave NE

Intersection: NE 45th St & 11th Ave NE
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Remove left turn lanes at the intersection of NE 45th & 11th Ave NE.

Signal Timing Parameters

	Inbound movement: EBT			Outbound Movement: WBT		
	AM	MD	PM	AM	MD	PM
Existing Timing						
Cycle Length [sec]	100	100	100	100	100	100
Split [sec]	65	52	52	65	52	52
G/C ratio:	0.65	0.52	0.52	0.65	0.52	0.52
Proposed Timing						
Cycle Length [sec]	100	100	70	100	100	70
Split [sec]	61	64	35	61	64	35
G/C ratio:	0.61	0.64	0.50	0.61	0.64	0.50

Required Documentation, to be submitted with Synchro Model on CD:
Synchro Arterial Level of Service Report (baseline)
Synchro Arterial Level of Service Report (optimized)
See project BUD 24.
Re-timing Interval Commitment Every 5 Years

Note: Proposals that include signal retiming as a proposed improvement project will be expected to commit to retime their signals on a regular basis for the term of the service partnership agreement; the retiming interval need not be more than once every three years but must not be less than once every five years.

Project Number: BUD47
Project Title: Remove Left Turn Lane at NE 45th St & 12th Ave NE

Intersection: NE 45th St & 12th Ave NE
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Remove left turn lanes at the intersection of NE 45th & 12th Ave NE.

Signal Timing Parameters

	Inbound movement: EBT			Outbound Movement: WBT		
	AM	MD	PM	AM	MD	PM
Existing Timing						
Cycle Length [sec]	100	100	100	100	100	100
Split [sec]	53	61	61	53	54	54
G/C ratio:	0.53	0.61	0.61	0.53	0.54	0.54
Proposed Timing						
Cycle Length [sec]	100	100	70	100	100	70
Split [sec]	67	71	45	67	71	45
G/C ratio:	0.67	0.71	0.64	0.67	0.71	0.64

Required Documentation, to be submitted with Synchro Model on CD:
Synchro Arterial Level of Service Report (baseline)
Synchro Arterial Level of Service Report (optimized)
See project BUD 24.
Re-timing Interval Commitment Every 5 Years

Note: Proposals that include signal retiming as a proposed improvement project will be expected to commit to retime their signals on a regular basis for the term of the service partnership agreement; the retiming interval need not be more than once every three years but must not be less than once every five years.

Project Number: BUD48
Project Title: Remove Left Turn Lane at NE 45th St & Brooklyn Ave NE

Intersection: NE 45th St & Brooklyn Ave NE
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Remove left turn lanes at the intersection of NE 45th St & Brooklyn Ave NE.

Signal Timing Parameters

	Inbound movement: EBT			Outbound Movement: WBT		
	AM	MD	PM	AM	MD	PM
Existing Timing						
Cycle Length [sec]	100	100	100	100	100	100
Split [sec]	47	42	42	52	45	45
G/C ratio:	0.47	0.42	0.42	0.52	0.45	0.45
Proposed Timing						
Cycle Length [sec]	100	100	70	100	100	70
Split [sec]	53	60	31	53	60	31
G/C ratio:	0.53	0.60	0.44	0.53	0.60	0.44

Required Documentation, to be submitted with Synchro Model on CD:
Synchro Arterial Level of Service Report (baseline)
Synchro Arterial Level of Service Report (optimized)
See project BUD 24.
Re-timing Interval Commitment Every 5 Years

Note: Proposals that include signal retiming as a proposed improvement project will be expected to commit to retime their signals on a regular basis for the term of the service partnership agreement; the retiming interval need not be more than once every three years but must not be less than once every five years.

Project Number: BUD49
Project Title: Remove Left Turn Lane at NE 45th St & University Way NE

Intersection: NE 45th St & University Way NE
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction: City of Seattle
Project Objective: Remove left turn lanes at the intersection of NE 45th St & University Way NE.

Signal Timing Parameters

	Inbound movement: EBT			Outbound Movement: WBT		
	AM	MD	PM	AM	MD	PM
Existing Timing						
Cycle Length [sec]	100	100	100	100	100	100
Split [sec]	63	59	59	63	59	59
G/C ratio:	0.63	0.59	0.59	0.63	0.59	0.59
Proposed Timing						
Cycle Length [sec]	100	100	70	100	100	70
Split [sec]	67	62	42	67	62	42
G/C ratio:	0.67	0.62	0.60	0.67	0.62	0.60

Required Documentation, to be submitted with Synchro Model on CD:
Synchro Arterial Level of Service Report (baseline)
Synchro Arterial Level of Service Report (optimized)
See project BUD 24.
Re-timing Interval Commitment Every 5 Years

Note: Proposals that include signal retiming as a proposed improvement project will be expected to commit to retime their signals on a regular basis for the term of the service partnership agreement; the retiming interval need not be more than once every three years but must not be less than once every five years.

Project Number: BUD50
Project Title: Transit Signal Priority at 15th Ave NE & NE 43rd St

TSP Project Description

Intersection: 15th Ave NE & NE 43rd St
TSP Directions/Movements Northbound through, southbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of 15th Ave NE & NE 43rd St. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on 15th Ave NE.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 1	Tier 2	Tier 2
Proposed Cycle Length [sec]:	100	80	120
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**15.0**	**10.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Westbound (Outbound)			Eastbound (Inbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	6	6	6	10	10	10
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD51
Project Title: Transit Signal Priority at 15th Ave NE & NE 42nd St

TSP Project Description

Intersection: 15th Ave NE & NE 42nd St
TSP Directions/Movements Northbound through, southbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of 15th Ave NE & NE 42nd St. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on 15th Ave NE.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 1	Tier 1	Tier 1
Proposed Cycle Length [sec]:	100	80	120
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**15.0**	**10.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Westbound (Outbound)			Eastbound (Inbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	6	6	6	7	7	7
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD52
Project Title: Transit Signal Priority at 15th Ave NE & NE 41st St

TSP Project Description

Intersection: 15th Ave NE & NE 41st St
TSP Directions/Movements Northbound through, southbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of 15th Ave NE & NE 41st St. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on 15th Ave NE.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 1	Tier 1	Tier 2
Proposed Cycle Length [sec]:	100	80	120
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**15.0**	**10.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Westbound (Outbound)			Eastbound (Inbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	3	3	3	9	9	9
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD53
Project Title: Transit Signal Priority at 15th Ave NE & NE 40th St

TSP Project Description

Intersection: 15th Ave NE & NE 40th St
TSP Directions/Movements Northbound through, southbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of 15th Ave NE & NE 40th St. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on 15th Ave NE.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 2	Tier 2	Tier 2
Proposed Cycle Length [sec]:	100	80	120
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**15.0**	**10.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Westbound (Outbound)			Eastbound (Inbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	9	9	9	3	3	3
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Copper	

Project Number: BUD54
Project Title: Transit Signal Priority at 15th Ave NE & NE Pacific St

TSP Project Description

Intersection: 15th Ave NE & NE Pacific St
TSP Directions/Movements Northbound through, southbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of 15th Ave NE & NE Pacific St. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling southbound on 15th Ave NE and westbound on NE Pacific St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 2	Tier 2	Tier 2
Proposed Cycle Length [sec]:	100	100	100
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**12.0**	**12.0**	**12.0**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement

	Westbound (Outbound)			Eastbound (Inbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	9	9	9	5	5	5
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 9200	LMD 9200
Planned Controller Upgrade Date:	2008-2013	
Central System	M3000	
Planned Central System Upgrade Date:	2008-2013	

Communications: Describe existing infrastructure and any planned upgrades.

Copper

Project Number: BUD55
Project Title: Transit Signal Priority at Market St & 15th Ave NW

TSP Project Description

Intersection: Market St & 15th Ave NW
TSP Directions/Movements Northbound through, southbound through
Corridor/Route: Market to 45th UVTN Corridor/Route 44
Jurisdiction Owner: City of Seattle
Traffic Signal Operator: City of Seattle
Project Objective: Intersection of Market St & 15th Ave NW. Installation of a signal controller cabinet and bus detection. Controller provides priority to buses travelling on Market St.

TSP Timings & Settings

	Intersection Settings		
	AM	MD	PM
TSP Timing Tier Level:	Tier 1	Tier 1	Tier 1
Proposed Cycle Length [sec]:	110	100	110
Minimum TSP Recovery [cycles]:	2	2	2
Maximum Available Bus Priority [calls/hr]:	**10.9**	**12.0**	**10.9**
Maximum Requested Bus Priority [calls/hr]:	**12**	**10**	**10**

TSP Direction/Movement	Westbound (Outbound)			Eastbound (Inbound)		
	AM	MD	PM	AM	MD	PM
Minimum Green Extension [sec]:	10	10	10	10	10	10
Design Bus Headway [min]:	10	12	12	10	12	12

Infrastructure

	Existing	Planned
Controller Type:	LMD 8000	EPAC M52
Planned Controller Upgrade Date:	2008-2013	
Central System	ACTRA	
Planned Central System Upgrade Date:	2008-2013	
Communications: Describe existing infrastructure and any planned upgrades.	Fiberoptic	