



# Appendix C. Utility Relocation Cost Estimates



	Compensable	Not Compensable	No Build
CenturyLink Local	\$ 30,000	\$ 1,950,000	\$ 669,000
CenturyLink National	\$ -	\$ 325,500	\$ -
Comcast Cable	\$ -	\$ 1,530,000	\$ -
Level 3	\$ 135,000	\$ 1,500,000	\$ 30,000
NW Natural	\$ 235,000	\$ 1,970,400	\$ 129,600
PacifiCorp	\$ 249,000	\$ 5,342,500	\$ 628,500
PGE	\$ -	\$ 840,000	\$ 210,000
BES	\$ 22,580,800	\$ 1,113,200	\$ 311,000
PWB	\$ 4,199,050	\$ 267,200	\$ 528,400
Verizon (MCI)	\$ 114,000	\$ 508,500	\$ -
Totals	\$ 27,542,850	\$ 15,347,300	\$ 2,506,500

CenturyLink (Local)

Segment	Street	From	To	Road Distance	Underground Distribution	Overhead Distribution	Est. Reimbursable	No Build Alternative
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420	420			
I-5 and Weidler Ramps	N Vancouver Ave	NE Wheeler Ave	N Weidler St	270	100			
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240	240			\$ 72,000
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230	230			\$ 69,000
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300	300			\$ 90,000
Broadway-Weidler	N Broadway St	N Vacouver Ave	N Williams Ave	260	260			\$ 78,000
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270	270			\$ 81,000
Broadway-Weidler	N Broadway St	N Victoria Ave	NE 1st Ave	270	270			\$ 81,000
Broadway-Weidler	N Broadway St	NE 1st Ave	NE 2nd Ave	260	260			\$ 78,000
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300	200			
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280	280			
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470	400			\$ 120,000
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250	100	80		
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550	300			
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270	50			
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270	50			
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640	640			
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370		370		
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200		200	\$ 30,000	
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190		190		
Flint-Hancock	NE Hancock St	N Williams Ave	NE Victoria Ave	260		260		
Flint-Hancock	N Flint Ave	N Winning Way	N Weidler St	450	50			
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170		50		
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320		320		
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450	450			
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660		370		
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	630	330			
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	Study Area North	480	480			
			Estimated Length (ft) per Type		5,680	1,840		
			Estimated Unit Cost/ft		\$ 300.00	\$ 150.00		
			Estimated Cost per Type		\$ 1,704,000	\$ 276,000	\$ 30,000	\$ 669,000

**TOTAL CENTURYLINK (LOCAL)**

\$ 1,980,000

Compensable

\$ 30,000

Not Compensable

\$ 1,950,000

No Build Alternative

\$ 669,000

CenturyLink (National)

Segment	Street	From	To	Road Distance	Underground Distribution	Overhead Distribution	Est. Reimbursable	No Build Alternative
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380		380		
I-5 and NE 1st Ave Ramp	NE Oregon St	Study Area West	NE Lloyd Blvd	80		80		
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Oregon St	NE Wheeler Ave	340		340		
I-5 and NE 1st Ave Ramp	NE Wheeler Ave	N Interstate Ave	NE Holladay St	280		280		
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250		250		
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420	420			
			Estimated Length (ft) per Type		420	1,330		
			Estimated Unit Cost/ft		\$ 300.00	\$ 150.00		
			Estimated Cost per Type		\$ 126,000	\$ 199,500	\$ -	\$ -

<b>TOTAL CENTURYLINK (NATIONAL)</b>	\$ 325,500
Compensable	\$ -
Not Compensable	\$ 325,500
No Build Alternative	\$ -

**Comcast Cable**

Segment	Street	From	To	Road Distance	Underground Distribution	Overhead Distribution	Est. Reimbursable	No Build Alternative
I-5/I-84 Interchange	NE Martin Luther King Jr Blvd	NE Grand Ave	NE Lloyd Blvd	380	300			
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420	420			
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260	160	100		
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510	360			
Broadway-Weidler	N Weidler St	N Wheeler Ave	N Vancouver Ave	140	140			
Broadway-Weidler	N Weidler St	N Vancouver Ave	N Williams Ave	260	260	200		
Broadway-Weidler	N Weidler St	N Williams Ave	N Victoria Ave	280		280		
Broadway-Weidler	NE Weidler St	N Victoria Ave	NE 1st Ave	270	130	140		
Broadway-Weidler	NE Weidler St	NE 1st Ave	NE 2nd Ave	260	260			
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230	230			
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300	80			
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260	260			
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470		200		
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250		100		
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550		500		
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270	150			
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270	150	50		
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520		400		
Flint-Hancock	N Dixon St	N Ross Ave	N Wheeler Ave	350		200		
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500		250		
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640	50	150		
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370		70		
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160		160		
Flint-Hancock	NE Hancock St	N Williams Ave	NE Victoria Ave	260		260		
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170		50		
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320		200		
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660	330	330		
				Estimated Length (ft) per Type	3,280	3,640		
				Estimated Unit Cost/ft	\$ 300.00	\$ 150.00		
				Estimated Cost per Type	\$ 984,000	\$ 546,000	\$ -	\$ -

<b>Comcast Cable</b>	\$ 1,530,000
Compensable	\$ -
Not Compensable	\$ 1,530,000
No Build Alternative	\$ -

**LEVEL 3**

Segment	Street	From	To	Distance (ft)	Aerial (ft)	Underground (ft)	Est. Reimbursable	No Build Alternative
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380		380		
I-5/I-84 Interchange	UPRR Route at I-5	Highway Gore	I-5 NB, south of UPRR	240		240	\$ 72,000	
I-5/I-84 Interchange	UPRR Level 3 Xing at UPRR Route	Highway Gore	I-5 SB Offramp	210		210	\$ 63,000	
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320		320	\$ -	
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Lloyd Blvd	NE Oregon St	740		740	\$ -	
I-5 and NE 1st Ave Ramp	NE Oregon St	Study Area West	NE Lloyd Blvd	80		80	\$ -	
I-5 and NE 1st Ave Ramp	NE Oregon St	NE Lloyd Blvd	NE 1st Ave	320		320	\$ -	
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Oregon St	NE Wheeler Ave	340		340	\$ -	
I-5 and NE 1st Ave Ramp	NE Wheeler Ave	N Interstate Ave	NE Holladay St	280		280	\$ -	
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250		250	\$ -	
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420		420	\$ -	
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510	200		\$ -	\$ 30,000
Broadway-Weidler	N Weidler St	N Wheeler Ave	N Vancouver Ave	140		140	\$ -	
Broadway-Weidler	N Weidler St	N Vancouver Ave	N Williams Ave	260	160	100	\$ -	
Broadway-Weidler	N Weidler St	N Williams Ave	N Victoria Ave	280	280		\$ -	
Broadway-Weidler	NE Weidler St	N Victoria Ave	NE 1st Ave	270	130	140	\$ -	
Broadway-Weidler	NE Weidler St	NE 1st Ave	NE 2nd Ave	260		260	\$ -	
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260		260	\$ -	
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300	300		\$ -	
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520	520		\$ -	
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500	250		\$ -	
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520	100		\$ -	

Estimated Length (ft) per Type		1,940	4,480		
Estimated Unit Cost/ft		\$ 150.00	\$ 300.00		
Estimated Cost per Type		\$ 291,000	\$ 1,344,000	\$ 135,000	\$ 30,000

**TOTAL LEVEL 3** **\$ 1,635,000**

Compensable	\$ 135,000
Not Compensable	\$ 1,500,000
No Build Alternative	\$ 30,000

NW NATURAL

Segment	Street	From	To	Road Distance	12 5/8 IN	6 5/8 IN	4 1/2 IN	4 IN	2 IN	1 IN	Reimbursable	No Build Alternative
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp							160		
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670				80				
I-5 and NE 1st Ave Ramp	NE Oregon St	NE Lloyd Blvd	NE 1st Ave	320				320				
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Oregon St	NE Wheeler Ave	340				340				
I-5 and NE 1st Ave Ramp	NE Wheeler Ave	N Interstate Ave	NE Holladay St	280				280				
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250		250						
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420		420						
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870				540				
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260	260				140			
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extension of Clackamas	520	520						\$ 130,000	
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Extension of Clackamas	South of Weidler	420	420						\$ 105,000	
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510					180			\$ 28,800
Broadway-Weidler	N Weidler St	N Wheeler Ave	N Vancouver Ave	140					140			
Broadway-Weidler	N Weidler St	N Vancouver Ave	N Williams Ave	260					260			
Broadway-Weidler	NE Weidler St	N Victoria Ave	NE 1st Ave	270					270			
Broadway-Weidler	NE Weidler St	NE 1st Ave	NE 2nd Ave	260					260			
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260					260			
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300					300			
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280					280			
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470					470			\$ 75,200
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250					250			
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550					550			
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270			270					
Flint-Hancock	N Dixon St	N Ross Ave	N Wheeler Ave	350					350			
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500			180					
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640		500			140			
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370					370			
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160					160			\$ 25,600
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190						50		
Flint-Hancock	N Flint Ave	N Hancock St	N Tillamook St	520		1500						
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170					170			
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320					320			
I-5: Tillamook to I-405 Interchange	N Commerical Ave	N Page St	N Russell St	530					150			
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450		450						
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660		410						
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200					200			
			Estimated Length (ft) per Type		1,200	3,530	450	1,560	5,220	210		
			Estimated Unit Cost/ft		\$ 250	\$ 200	\$ 180	\$ 160	\$ 160	\$ 160		
			Estimated Cost per Type		\$ 300,000	\$ 706,000	\$ 81,000	\$ 249,600	\$ 835,200	\$ 33,600	\$ 235,000	\$ 129,600

**Total NW Natural \$ 2,205,400**

Compensable \$ 235,000

Not Compensable \$ 1,970,400

No Build Alternative \$ 129,600



PacifiCorp (Pacific Power)

Segment	Street	From	To	Road Distance	Transmission	Underground Distribution	Overhead Distribution	Est. Reimbursable
I-5/I-84 Interchange	NE Martin Luther King Jr Blvd	NE Grand Ave	NE Lloyd Blvd	380	380		100	\$ 15,000
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320	320			
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670	670	550		
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Oregon St	NE Holladay St	550	550	550		
I-5 and NE 1st Ave Ramp	NE Oregon St	Study Area West	NE Lloyd Blvd	80			80	
I-5 and NE 1st Ave Ramp	NE Oregon St	NE Lloyd Blvd	NE 1st Ave	320		120		
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Oregon St	NE Wheeler Ave	340			340	
I-5 and NE 1st Ave Ramp	NE Wheeler Ave	N Interstate Ave	NE Holladay St	280		50	280	
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250		250	250	
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350			100	
I-5: Holladay to Multnomah	NE 1st Ave	NE Holladay St	NE Multnomah St	240	240	240		
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420		420		
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870		800		
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260		260	100	
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extention of Clackamas	520		520		\$ 156,000
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510			450	
Broadway-Weidler	N Weidler St	N Benton Ave	N Ross Ave	230		230		
Broadway-Weidler	N Weidler St	N Ross Ave	N Wheeler Ave	280		280	280	
Broadway-Weidler	N Weidler St	N Wheeler Ave	N Vancouver Ave	140		140	140	
Broadway-Weidler	N Weidler St	N Vacouver Ave	N Williams Ave	260		260	260	
Broadway-Weidler	N Weidler St	N Williams Ave	N Victoria Ave	280		280	280	
Broadway-Weidler	NE Weidler St	N Victoria Ave	NE 1st Ave	270		270	270	
Broadway-Weidler	NE Weidler St	NE 1st Ave	NE 2nd Ave	260			260	
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240			200	
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230			230	
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300			300	
Broadway-Weidler	N Broadway St	N Vacouver Ave	N Williams Ave	260			260	
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270			200	
Broadway-Weidler	N Broadway St	N Victoria Ave	NE 1st Ave	270			220	
Broadway-Weidler	N Broadway St	NE 1st Ave	NE 2nd Ave	260	260		260	
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260			260	
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300			100	
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280			50	
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470		20	470	
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250			250	
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550		20	500	
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270		270	270	
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120	120	120	120	
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270			270	
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520			520	
Flint-Hancock	N Dixon St	N Ross Ave	N Wheeler Ave	350			350	
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500			500	
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640			500	
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650			50	

PacifiCorp (Pacific Power)

Segment	Street	From	To	Road Distance	Transmission	Underground Distribution	Overhead Distribution	Est. Reimbursable
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370			370	
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160	160		160	
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200			200	\$ 30,000
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190			190	
Flint-Hancock	NE Hancock St	N Williams Ave	NE Victoria Ave	260	260		260	
Flint-Hancock	N Flint Ave	N Hancock St	N Tillamook St	520			100	
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170			50	
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320			320	
Flint-Hancock	Aerial Oxing at Tillamook	Private Easement	N Tillamook St	240			240	
I-5: Tillamook to I-405 Interchange	N Commercial Ave	N Page St	N Russell St	530			530	
I-5: Tillamook to I-405 Interchange	Aerial Oxing at Commercial	Private Easement	N Commercial Ave	320			320	\$ 48,000
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450	450	450		
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660			200	
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330	330			
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680			400	
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200			200	
			Estimated Length (ft) per Type		3,740	6,100	12,610	
			Estimated Unit Cost/ft		\$ 500.00	\$ 300.00	\$ 150.00	
			Estimated Cost per Type		\$ 1,870,000	\$ 1,830,000	\$ 1,891,500	\$ 249,000

**TOTAL PACIFICORP \$ 5,591,500**

Compensable \$ 249,000

Not Compensable \$ 5,342,500

No Build Alternative \$ 628,500

**Portland General Electric**

Segment	Street	From	To	Road Distance	Transmission	Est. Reimbursable	No Build Alternative
Broadway-Weidler	N Broadway St	NE 1st Ave	NE 2nd Ave	260	260		\$ 130,000
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160	160		\$ 80,000
Flint-Hancock	NE Hancock St	N Williams Ave	NE Victoria Ave	260	260		
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000	1000		

Estimated Length (ft) per Type		1,680	
Estimated Unit Cost/ft		\$ 500.00	
Estimated Cost per Type		\$ 840,000	\$ - \$ 210,000

**TOTAL PORTLAND GENERAL ELECTRIC \$ 840,000**

Compensable \$ -  
 Not Compensable \$ 840,000  
 No Build Alternative \$ 210,000

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	Pump Station	Special Structure	22 FT Combined	96 IN Sanitary	84 IN CSO
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380					
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp		1	2	900	650	200
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320					
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670					
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250					
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350					
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420					
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870					
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260					
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extension of Clackamas	520					
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510					
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330					
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240					
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230					
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300					
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270					
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260					
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300					
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280					
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270					
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470					
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250					
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550					
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270					
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120					
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270					
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520					
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500					
Flint-Hancock	I-5 Crossing at Hancock Street	N Flint Ave	NE Hancock St	330					
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640					
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650					
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370					
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160					
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200					
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190					
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170					
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320					
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450					
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520					
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660					
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330					
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	630					
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460					
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680					
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200					
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	320					
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480					
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000					
			Estimated Length (ft) per Type		1	2	900	650	200

**PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW**

Segment	Street	From	To	Road Distance	Pump Station	Special Structure	22 FT Combined	96 IN Sanitary	84 IN CSO
			Estimated Unit Cost/ft		\$ 500,000	\$ 25,000	\$ 20,000	\$ 900	\$ 800
			Estimated Cost per Type		\$ 500,000	\$ 50,000	\$ 18,000,000	\$ 585,000	\$ 160,000

Total Portland BES \$ **23,694,000**

Compensable \$ 22,580,800

Not Compensable \$ 1,113,200

No Build Alternative \$ 311,000

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	72 IN Sanitary	72 IN CSO	70 IN Bypass	56 IN Combined	54 IN CSO	
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380						
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp		86	230	480			
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320		320				
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670						
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250						
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350					350	
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420						
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870						
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260						
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extention of Clackamas	520						
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510						
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330						
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240						
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230						
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300						
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270						
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260						
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300						
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280						
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270						
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470						
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250						
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550						
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270						
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120						
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270						
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520						
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500				180		
Flint-Hancock	I-5 Crossing at Hancock Street	N Flint Ave	NE Hancock St	330				330		
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640						
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650						
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370						
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160				160		
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200						
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190				190		
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170						
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320						
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450						
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520						
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660						
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330						
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	630						
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460						
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680						
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200						
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	320						
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480						
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000						
Estimated Length (ft) per Type						86	550	480	860	350

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	72 IN Sanitary	72 IN CSO	70 IN Bypass	56 IN Combined	54 IN CSO	
					Estimated Unit Cost/ft	\$ 700	\$ 700	\$ 680	\$ 540	\$ 520
					Estimated Cost per Type	\$ 60,200	\$ 385,000	\$ 326,400	\$ 464,400	\$ 182,000

Total Portland BES

- Compensable
- Not Compensable
- No Build Alternative

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	48 IN Pressure	48 IN CSO	38 IN Sanitary	36 IN Combined	30 IN Combined
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380					
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp		550				
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320			320		
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670					
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250					
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350					
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420					
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870					
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260					
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extention of Clackamas	520					
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510					
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330					
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240					
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230					
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300					
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270					
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260					
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300					
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280					
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270					
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470					
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250					
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550					
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270					
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120					
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270					
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520					
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500					
Flint-Hancock	I-5 Crossing at Hancock Street	N Flint Ave	NE Hancock St	330					
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640					
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650					
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370					370
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160					
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200					200
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190					
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170					
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320					
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450		190		260	
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520		400			
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660					
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330					
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	630					
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460					
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680					
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200					
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	320				320	
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480				170	180
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000					
Estimated Length (ft) per Type					550	590	320	750	750



PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	48 IN Pressure	48 IN CSO	38 IN Sanitary	36 IN Combined	30 IN Combined
					\$ 460	\$ 460	\$ 360	\$ 340	\$ 320
					\$ 253,000	\$ 271,400	\$ 115,200	\$ 255,000	\$ 240,000

Total Portland BES

- Compensable
- Not Compensable
- No Build Alternative

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	24 IN Combined	20 IN Sanitary	18 IN CSO	18 IN Combined	16 IN Combined	15 IN Combined
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380						
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp							
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320		285				
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670						
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250			70		210	
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350						
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420						
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870						
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260						
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extention of Clackamas	520						
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510						
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330					100	
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240						
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230						
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300						
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270				210		80
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Wheelway Ave	260						
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300						
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280						
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270						
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470						320
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250						
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550						
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270	270					
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120	120					
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270						
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520						
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500						
Flint-Hancock	I-5 Crossing at Hancock Street	N Flint Ave	NE Hancock St	330						
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640						
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650						
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370						
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160						
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200						
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190						190
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170						
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320						
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450				450		
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520						400
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660						
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330						
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	630						
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460						
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680						
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200						
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	320						
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480						
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000						
Estimated Length (ft) per Type					390	285	70	660	310	990

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	24 IN Combined	20 IN Sanitary	18 IN CSO	18 IN Combined	16 IN Combined	15 IN Combined
					\$ 300	\$ 280	\$ 260	\$ 260	\$ 240	\$ 230
					\$ 117,000	\$ 79,800	\$ 18,200	\$ 171,600	\$ 74,400	\$ 227,700

Total Portland BES

- Compensable
- Not Compensable
- No Build Alternative

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	15 IN Sanitary	14 IN Combined	12 IN Combined	10 IN Combined	8 IN Sanitary	8 IN Combined
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380						
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp							
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320						
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670					400	
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250						
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350	350					
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420						420
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870						
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260					260	
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extention of Clackamas	520					60	
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510		260	240			
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330				230		
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240						
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230						
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300						110
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270						
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260						
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300						
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280				280		
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270			90			
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470						
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250						
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550						
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270						
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120						
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270						
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520						
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500			120			70
Flint-Hancock	I-5 Crossing at Hancock Street	N Flint Ave	NE Hancock St	330						
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640			310		230	
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650				110		
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370						
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160				160		
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200						
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190						
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170						
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320						
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450						
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520						
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660				190		280
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330			330			
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	630				350		170
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460			460			
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680						240
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200						200
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	320			320			
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480						
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000						
Estimated Length (ft) per Type					350	260	1870	1320	950	1490

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	15 IN Sanitary	14 IN Combined	12 IN Combined	10 IN Combined	8 IN Sanitary	8 IN Combined
					\$ 230	\$ 220	\$ 200	\$ 180	\$ 160	\$ 160
					\$ 80,500	\$ 57,200	\$ 374,000	\$ 237,600	\$ 152,000	\$ 238,400

Total Portland BES

- Compensable
- Not Compensable
- No Build Alternative

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	6 IN Combined	Rims Only	Not Reimbursable	No Build Alternative
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380				
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp				\$ 998,000	
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320			\$ 115,200	
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670				
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250				
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350				
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420				
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870		Yes		
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260				
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extention of Clackamas	520				
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510				\$ 105,200
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330				
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240		Yes		
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230		Yes		
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300				\$ 17,600
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270				\$ 73,000
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260		Yes		
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300		Yes		
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280				
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270				
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470				
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250		Yes		
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550		Yes		
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270				
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120				
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270		Yes		
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520		Yes		
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500				
Flint-Hancock	I-5 Crossing at Hancock Street	N Flint Ave	NE Hancock St	330				
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640				
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650				
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370				
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160				\$ 115,200
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200				
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190				
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170		Yes		
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320		Yes		
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450				
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520				
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660				
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330				
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	630	50			
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460				
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680				
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200				
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	320				
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480				
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000				
				Estimated Length (ft) per Type	50	11		

PORTLAND BUREAU OF ENVIRONMENTAL SERVICES - SANITARY AND COMBINED SANITARY OVERFLOW

Segment	Street	From	To	Road Distance	6 IN Combined	Rims Only	Not Reimbursable	No Build Alternative
					\$ 140	\$ 1,000		
					\$ 7,000	\$ 11,000	\$ 1,113,200	\$ 311,000
							Not Reimbursable	

Total Portland BES

- Compensable
- Not Compensable
- No Build Alternative

PORTLAND WATER BUREAU

Segment	Street	From	To	Road Distance	Water Main (LF)	Not Reimbursable
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	I-84 WB to I-5 SB Ramp		600	
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320	320	
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670	670	
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Oregon St	NE Holladay St	550	670	
I-5 and NE 1st Ave Ramp	NE Oregon St	Study Area West	NE Lloyd Blvd	80	80	
I-5 and NE 1st Ave Ramp	NE Oregon St	NE Lloyd Blvd	NE 1st Ave	320	320	
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Oregon St	NE Wheeler Ave	340	340	
I-5 and NE 1st Ave Ramp	NE Wheeler Ave	N Interstate Ave	NE Holladay St	280	280	
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250	250	
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350	350	
I-5: Holladay to Multnomah	NE 1st Ave	NE Holladay St	NE Multnomah St	240	340	
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420	420	
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870	870	
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260	260	
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510	510	
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330	330	
I-5 and Weidler Ramps	N Vancouver Ave	NE Wheeler Ave	N Weidler St	270	270	
I-5 and Weidler Ramps	N Winning Way	N Flint Ave	NE Wheeler Ave	480	480	
Broadway-Weidler	N Weidler St	N Ross Ave	N Wheeler Ave	280	280	
Broadway-Weidler	N Weidler St	N Wheeler Ave	N Vancouver Ave	140	280	
Broadway-Weidler	N Weidler St	N Vancouver Ave	N Williams Ave	260	260	
Broadway-Weidler	N Weidler St	N Williams Ave	N Victoria Ave	280	280	\$ 67,200
Broadway-Weidler	NE Weidler St	N Victoria Ave	NE 1st Ave	270	270	
Broadway-Weidler	NE Weidler St	NE 1st Ave	NE 2nd Ave	260	260	
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240	160	
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300	300	
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270	270	
Broadway-Weidler	N Broadway St	N Victoria Ave	NE 1st Ave	270	270	
Broadway-Weidler	N Broadway St	NE 1st Ave	NE 2nd Ave	260	260	
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260	260	
Broadway-Weidler	N Vancouver Ave	N Weidler St	N Broadway Ave	280	280	
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270	270	\$ 64,800
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470	470	
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250	250	
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550	550	
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270	270	
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120	120	
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270	270	
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520	520	
Flint-Hancock	N Dixon St	N Ross Ave	N Wheeler Ave	350	350	
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500	500	
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640	640	
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370	370	
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160	160	
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200	200	



**PORTLAND WATER BUREAU**

Segment	Street	From	To	Road Distance	Water Main (LF)	Not Reimbursable
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190	190	
Flint-Hancock	NE Hancock St	N Williams Ave	NE Victoria Ave	260	260	
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170	170	
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320	320	
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450	450	
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520	520	\$ 135,200
I-5/I-405 Interchange	N Knott St	N Albina St	N Kerby Ave	660	410	
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330	330	
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	330	330	
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460	460	
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	200	200	
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480	480	
Estimated Length (ft) per Type					19,850	
Estimated Unit Cost/ft					\$ 225	
Estimated Cost per Type					\$ 4,466,250	\$ 267,200
<b>Total Portland Water Bureau</b>					<b>\$ 4,466,250</b>	
Compensable					\$ 4,199,050	
Not Compensable					\$ 267,200	
No Build Alternative					\$ 528,400	

Verizon Nation Fiber Security

Segment	Street	From	To	Road Distance	Underground Fiber	Overhead Fiber	Est. Reimbursable	No Build Alternative
I-5/I-84 Interchange	UPRR Route at South	Eastbank Esplanade	I-5 NB, south of UPRR	380	380		\$ 114,000	
Broadway-Weidler	N Weidler St	N Wheeler Ave	N Vancouver Ave	140	140			
Broadway-Weidler	N Weidler St	N Vacouver Ave	N Williams Ave	260	140	120		
Broadway-Weidler	N Weidler St	N Williams Ave	N Victoria Ave	280		280		
Broadway-Weidler	NE Weidler St	N Victoria Ave	NE 1st Ave	270	150	120		
Broadway-Weidler	NE Weidler St	NE 1st Ave	NE 2nd Ave	260	260			
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260	260			
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300	150	150		
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520		520		
				Estimated Length (ft) per Type	1,480	1,190		
				Estimated Unit Cost/ft	\$ 300.00	\$ 150.00		
				Estimated Cost per Type	\$ 444,000	\$ 178,500	\$ 114,000	\$ -

**TOTAL VERIZON NATIONAL FIBER SECURITY** \$ 622,500

Compensable \$ 114,000

Not Compensable \$ 508,500

No Build Alternative \$ -

Utility Name

Segment	Street	From	To	Road Distance
I-5/I-84 Interchange	NE Lloyd Blvd	NE Grand Ave	NE Martin Luther King Jr Blvd	380
I-5/I-84 Interchange	UPRR Route at South	Eastbank Esplanade	I-5 NB, south of UPRR	380
I-5/I-84 Interchange	I-5 SB & I-5 to I-84 EB Ramp	NE Oregon St	Study Area South	
I-5 and NE 1st Ave Ramp	NE Lloyd Blvd	NE 1st Ave	Study Area East	320
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Lloyd Blvd	NE Oregon St	740
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Lloyd Blvd	NE Oregon St	670
I-5 and NE 1st Ave Ramp	NE 1st Ave	NE Oregon St	NE Holladay St	550
I-5 and NE 1st Ave Ramp	NE Oregon St	Study Area West	NE Lloyd Blvd	80
I-5 and NE 1st Ave Ramp	NE Oregon St	NE Lloyd Blvd	NE 1st Ave	320
I-5 and NE 1st Ave Ramp	N Interstate Ave	NE Oregon St	NE Wheeler Ave	340
I-5 and NE 1st Ave Ramp	NE Wheeler Ave	N Interstate Ave	NE Holladay St	280
I-5: Holladay to Multnomah	NE Wheeler Ave	NE Holladay St	NE Multnomah St	250
I-5: Holladay to Multnomah	NE Holladay St	NE Wheeler Ave	NE 1st Ave	350
I-5: Holladay to Multnomah	NE 1st Ave	NE Holladay St	NE Multnomah St	240
I-5: Holladay to Multnomah	NE Multnomah St	NE Wheeler Ave	NE 1st Ave	420
I-5 and Weidler Ramps	NE Wheeler Ave	NE Multnomah St	N Williams Ave	870
I-5 and Weidler Ramps	NE 1st Ave	NE Multnomah St	Cul-de-Sac	260
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Cul-de-Sac	Extention of Clackamas	520
I-5 and Weidler Ramps	NE 1st Ave (Vacated)	Extension of Clackamas	South of Weidler	420
I-5 and Weidler Ramps	N Williams Ave	NE Wheeler Ave	N Weidler St	510
I-5 and Weidler Ramps	NE Wheeler Ave	N Williams Ave	N Vancouver Ave	330
I-5 and Weidler Ramps	N Vancouver Ave	NE Wheeler Ave	N Weidler St	270
I-5 and Weidler Ramps	N Winning Way	N Flint Ave	NE Wheeler Ave	480
Broadway-Weidler	N Weidler St	N Benton Ave	N Ross Ave	230
Broadway-Weidler	N Weidler St	N Ross Ave	N Wheeler Ave	280
Broadway-Weidler	N Weidler St	N Wheeler Ave	N Vancouver Ave	140
Broadway-Weidler	N Weidler St	N Vacouver Ave	N Williams Ave	260
Broadway-Weidler	N Weidler St	N Williams Ave	N Victoria Ave	280
Broadway-Weidler	NE Weidler St	N Victoria Ave	NE 1st Ave	270
Broadway-Weidler	NE Weidler St	NE 1st Ave	NE 2nd Ave	260
Broadway-Weidler	N Broadway St	N Benton Ave	N Ross Ave	240
Broadway-Weidler	N Broadway St	N Ross Ave	N Wheeler Ave	230

Utility Name

Segment	Street	From	To	Road Distance
Broadway-Weidler	N Broadway St	N Wheeler Ave	N Vancouver Ave	300
Broadway-Weidler	N Broadway St	N Vancouver Ave	N Williams Ave	260
Broadway-Weidler	N Broadway St	N Williams Ave	N Victoria Ave	270
Broadway-Weidler	N Broadway St	N Victoria Ave	NE 1st Ave	270
Broadway-Weidler	N Broadway St	NE 1st Ave	NE 2nd Ave	260
Broadway-Weidler	N Wheeler Ave	N Weidler St	N Broadway Ave	260
Broadway-Weidler	N Wheeler Ave	N Broadway Ave	N Dixon St	300
Broadway-Weidler	N Vancouver Ave	NE Weidler St	N Broadway Ave	280
Broadway-Weidler	N Vancouver Ave	N Winning Way	NE Weidler St	450
Broadway-Weidler	N Williams Ave	NE Weidler St	NE Broadway Ave	270
Broadway-Weidler	N Williams Ave	N Broadway Ave	NE Hancock St	470
Broadway-Weidler	NE Victoria Ave	NE Weidler St	NE Broadway Ave	250
Broadway-Weidler	NE Victoria Ave	NE Broadway Ave	NE Hancock St	550
Broadway-Weidler	NE 1st Ave	NE Weidler St	NE Broadway Ave	270
Broadway-Weidler	NE 1st Ave	NE Broadway Ave	Study Area North	120
Broadway-Weidler	NE 2nd Ave	NE Weidler St	NE Broadway Ave	270
Flint-Hancock	N Wheeler Ave	N Dixon St	N Hancock St	520
Flint-Hancock	N Dixon St	N Ross Ave	N Wheeler Ave	350
Flint-Hancock	N Hancock St	N Wheeler Ave	N Flint Ave	500
Flint-Hancock	N Flint Ave	N Broadway Ave	N Hancock St	640
Flint-Hancock	N Vancouver Ave	N Broadway Ave	North Abutment	650
Flint-Hancock	N Vancouver Ave	North Abutment	NE Tillamook St	370
Flint-Hancock	N Williams Ave	NE Hancock St	Study Area North	160
Flint-Hancock	Private Easement	NE Hancock St	N Vancouver Ave	200
Flint-Hancock	NE Hancock St	Private Easement	N Williams Ave	190
Flint-Hancock	NE Hancock St	N Williams Ave	NE Victoria Ave	260
Flint-Hancock	N Flint Ave	N Winning Way	N Weidler St	450
Flint-Hancock	N Flint Ave	N Hancock St	N Tillamook St	520
Flint-Hancock	N Flint Ave	N Tillamook St	Study Area North	170
Flint-Hancock	N Tillamook St	N Flint Ave	N Vancouver Ave	320
Flint-Hancock	Aerial Oxing at Tillamook	Private Easement	N Tillamook St	240
I-5: Tillamook to I-405 Interchange	N Commercial Ave	N Page St	N Russell St	530

Utility Name

Segment	Street	From	To	Road Distance
I-5: Tillamook to I-405 Interchange	Aerial Oxing at Commercial	Private Easement	N Commercial Ave	320
I-5/I-405 Interchange	N Russell St	Study Area West	N Commercial Ave	450
I-5/I-405 Interchange	N Kerby Ave	N Russell St	N Knott St	520
I-5/I-405 Interchange	N Knott St	N Albina Ave	N Kerby Ave	660
I-5/I-405 Interchange	N Albina St	N Graham St	N Stanton St	330
I-5/I-405 Interchange	N Stanton St	N Mississippi Ave	N Borthwick Ave	330
I-5/I-405 Interchange	N Borthwick Ave	N Knott St	Study Area North	460
I-5/I-405 Interchange	N Graham St	N Mississippi Ave	N Borthwick Ave	680
I-5/I-405 Interchange	N Graham St	N Borthwick Ave	Study Area East	200
I-5/I-405 Interchange	N Mississippi Ave	N Graham St	N Stanton St	320
I-5/I-405 Interchange	N Mississippi Ave (Vacated)	N Stanton St	N Monroe St	480
I-5/I-405 Interchange	N Interstate Ave	N Knott St	N Greeley Ave	1000

