Washington Water Service Co. **Engineering Department**

6800 Meridian Road SE Olympia, WA 98513

Engineer's Opinion of Probable Project Costs Summary Attachment "A"

Point Evans Narrows Ridge Short Plat

August 25, 2021 (Projected Cost Good for 30-Days)

Engineering File # 3915

	*** Construction Materials ***										
Unit of Property	Description	Quantity	Unit of Measure	U	Init Cost		Total				
103240	Construction Materials, Pipe, Valves, Fittings, Etc	1	LS	\$	1,688.59	\$	1,688.59				
103450	Construction Materials for Services	1	LS	\$	-	\$	-				
103480	Construction Materials for Hydrants	1	LS			\$	-				
						\$	-				
						\$	-				
		Sub-Total				\$	1,688.59				
		Contingency			10%	\$	168.86				
		Sales Tax			9.00%	\$	167.17				

Rounded Up	Value			\$2,100.00
SUB Total - M			\$	2,024.62
Sales Tax		9.00%	\$	167.17
Contingency		10%	\$	168.86
Sub-Total			\$	1,688.59
			\$	-
			Ψ	

*** Construction Labor ***								
Unit of			Unit of					
Property	Description	Quantity	Measure		Unit Cost		Total	
103240	Construction Labor - Watermain	1	LS	\$	7,860.00	\$	7,860.00	
103450	Construction Labor - Services	1	LS	\$	786.00	\$	786.00	
103480	Construction Labor - Hydrants	1	LS	\$	786.00	\$	786.00	
						\$	-	
	WWSC Engineering	1	LS	\$	3,032.65	\$	3,032.65	
						\$	-	
						\$	-	
						\$	12,464.65	
		Contingency			10%	\$	1.246.47	

Sub-Total - Construction Labor 13,711.12 \$ Rounded Up Value \$13,800.00

Unit of				Unit of				
roperty			Quantity	Measure	-	nit Cost		Total
	County Permits (Encroachment)			LS	\$	396.00	\$	396.00
	DOH Review Fees			LS			\$	-
	Hydrogeologist			LS			\$	-
	Geotechnical Engineer			LS			\$	-
	Engineering Consultant			LS			\$	-
	Land Surveyor			LS			\$	-
	Land Cost			LS			\$	-
	Additional Insurance			LS			\$	-
	Bonding		1	LS			\$	-
	Sanitary Facility Rental (Portable Toilet)			LS	\$	-	\$	-
	Paving Contractor - Pavement Restoration	ו	1	LS			\$	-
	Traffic Control Contractor - Flaggers		1	LS	\$	-	\$	-
							\$	-
							\$	-
							\$	-
							\$	-
	•		SUB TOTAL				\$	396.00
			Contingency			10%	\$	39.60
			Sub-Total - O	utside Contr	actor		\$	435.60
			Rounded Up	Value				\$500.00
			Project Subto	tal =			\$	16,400.00
			Federal Tax p		-		\$	4,359.49
			State B&O Ta		-		\$	316.13
	Anticiapted Developer (onsite) Costs						Ŷ	010110
	\$	33,260.92	Anticipated T	CJA Tax =			\$	8,841.51
			Projected I	Funds Re	quire	d =		\$29,917

1) This document is intended to forecast approximate construction costs based upon current information and similar projects, and is not intended to accurately represent actual design or construction components or prices.

2) Totals are rounded to nearest \$100

Point Evans

Eng. File # 3915

Pierce County Narrows Ridge Short Plat Engineer's Opinion of Projected Construction Materials Costs 8/25/2021

OFFSITE - PROVIDED BY WWS Unit of Inventory

Property	Number Task - WATERMAIN	Quantity Units	Unit Cost	Total
	4" MJ x FLG GATE VALVE 8 x 4 TAPPING SLEEVE valve assembly locate wire, blocking, bedding	1.0 EA 1.0 EA 1.0 EA 1.0 EA 1.0 EA	\$ 440.00 \$ 600.00 \$ 63.00 \$ 150.00	\$ 600.00
	18" VALVE BOX RISER w/LID	1.0 EA	\$ 36.00	\$ 36.00 \$ - \$ - \$ - \$ - \$ - \$ -
				\$- \$- \$- \$-
				\$ - \$ - \$ - \$ - \$ - \$ -
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Sub-Total \$ 1,289.00

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Point Evans

Pierce County Narrows Ridge Short Plat Engineer's Opinion of Projected Construction Materials Costs 8/25/2021 Eng. File # 3915

Point Evans

Eng. File # 3915

Pierce County Narrows Ridge Short Plat

Engineer's Opinion of Projected Construction Materials Costs

8/25/2021

WWS Construction Crew-Mains

		Rate	<u>ə</u>	<u>Su</u>	b-Total	
1 Man & Vac Truck	HRS	\$	75	\$	-	1 Man & V
1 Man & Boom Truck	8 HRS	\$	75	\$	600	1 Man & B
1 Man & Backhoe - Trench	16 HRS	\$	75	\$	1,200	1 Man & B
1 Man & Backhoe - Comp	16 HRS	\$	75	\$	1,200	1 Man & B
Admin/Prep	8 HRS	\$	75	\$	600	Admin/Pre
1 Man & Truck	HRS	\$	75	\$	-	1 Man & T
2 Men & Truck	16 HRS	\$	150	\$	2,400	2 Men & T
1 Electrician & Truck	HRS	\$	80	\$	-	1 Electricia
2 Electricians & Truck	HRS	\$	160	\$	-	2 Electricia
				\$	-	

Total \$ 6,000

Outside Contractor - No Pilot Car

2-Flaggers Signs Other	HRS DAYS LS	\$ 60 \$105	\$ \$ \$	- -	(RCE TRAFFIC CONTROL CUTSHEET)
1-Flagger	HRS	\$ 30	\$	-	

Sanitary Facility Rental (Portable Toilet)

Days \$ 75 **\$ -**

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Point Evans

Eng. File # 3915

Pierce County Narrows Ridge Short Plat Engineer's Opinion of Projected Construction Materials Costs

8/25/2021

Task	Hours	Employee Classification	Rate	Total
Facility Design				
Project Setup	1	Engineer	\$ 85.00	\$ 85.00
Route Topo	'	Engineer	\$ 85.00	\$ -
Develop Base Drawings from Topo Info		Engineer	\$ 85.00	\$ -
DOH Project Report and Approval		Engineer	\$ 85.00	\$ -
Design & Draft Watermain Construction Documents		Engineer	\$ 85.00	\$ -
Sub-Total	1			\$ 85.00
Revisions per Peer Review Comments				
P.E. Peer Review	4	Principle Eng	\$115.00	\$ 460.00
Revisions to Construction Documents per Peer Review Comments		Engineer	\$ 85.00	\$ -
Coping & Re-Submittal of Project Report & Construction Documents		Clerical	\$ 60.00	\$ -
Sub-Total	4			\$ 460.00
Construction				
Pre-Construction Conference with Engineering & Contractor	2	Engineer	\$ 85.00	\$ 170.00
Construction Inspection & Pressure Test	8	Engineer	\$ 85.00	\$ 680.00
Sub-Total	10			\$ 850.00
Record Documents				
As-Built Drawings & Testing Validations along with Project Certification Document Preparation	4	Engineer	\$ 85.00	\$ 340.00
P.E. Project Certification		Principle Eng	\$115.00	\$ -
Updating Base Maps & Site Piping	4	Engineer	\$ 85.00	\$ 340.00
Project Close-Out	4	Clerical	\$ 60.00	\$ 240.00
Sub Total	12			\$ 920.00
Projected Total Hours	27			\$ 2,315.00

Descr	Last Price Paid
4" DUCTILE IRON PIPE	21.8494
6" DUCTILE IRON PIPE	17.1144
8" DUCTILE IRON PIPE	18.2200
10" DUCTILE IRON PIPE	32.0794
12" DUCTILE IRON PIPE	40.3833
3/4" INLINE CHK (DUCTILE IRON)	58.0900
1" INLINE CHK VALVE (DUCTILE I	16.7884
2" INLINE CHK VALVE (DUCTILE I	58.7100
3" INLINE CHK VALVE (DUCTILE I	193.1700
4" INLINE CHK VALVE (DUCTILE I	297.7200
6" INLINE CHK VALVE (DUCTILE I	773.4500