Costs for feasibilty

PROJECT DETAILS	
ESTIMATOR:	
DIOTRIOT	

Current ES&GA Rate:

ESTIMATOR:	
DISTRICT:	
CITY:	
DATE:	

DESCRIPTION:

PROVIDE GAS SERVICE TO CREER DUPLEX PROJECT IN WEST RICHLAND EAST OF KEENE ROAD PHASE 6/7 EXPANSION EAST OF KEENE RD

ESTIMATED IN SERVICE DATE:

6/1/20

			worksheets and PowerPlan		Total estimated cost for project authorization
CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Total Direct Cost	CNGC Corporate Overhead	Total Project Costs
Materials					
1" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Materials					
4" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CNGC Labor					
1" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment					
1" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other					
1" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contractor Labor	100				
1" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Contractor Labor					
4" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CNGC Facility Costs					
TOTAL PROJECT COST					
Total Pipe Footage	180	feet T	otal Estimated Cost P	er Foot:	****
Reimbursable Projects	Enter FIT	T	otal Cost For Reimbur	sement:	

FIT is 10.94% in WA and 11.7% in OR.

Go	nera	IN	nta	c.

CASCADE NATURAL GAS CORPORATION 2" MAIN COST ESTIMATE D

2" MAIN CREDACTED Unit Cost EXHIBIT A1 Quantity Item MATERIALS 2" MDPE Pipe Part#: PPE-355 2" Epoxy Coated Steel Pipe Grade B (20' Lengths) Part#: PFBE-355 2" Epoxy Coated Steel Pipe Part#: PFBE-356 Tracer Wire Part#: H-115 Test Station Marker Part#: H-105 Burial Kit Part#: H-1030 & H1040 Round Locate Coupon Part #: H-760 1" Sav-a-valve Part#: NP-213 2" Royston Wrap Part#: H-7 4" Royston Wrap Part#: H-8 Royston Primer Part#: H-12 Trenton Underground Tape Part#: H-780 Trenton Primer Part#: H-782 2" Transition Part#: H-109 2" Top Tap Stop Part#: SP-356 2" Bottom Out Stop Part#: SP-358 2" 90 Weld Ell Part#: EL-360 2" Steel Service Tee Part#: TE-363 2" PE Cap Part#: PCA-320 2" Electro Coupler Part #: PCP-360 2" PE Tee Part#: PTE-360 2" PE 90 Ell Part#: PEL-360 Marker Ball Misc Parts 6x4 Reducer 4x2 Reducer Sub-Total: Materials TOTAL: Materials CONTRACTOR LABOR Item Quantity Total Enter Bid Price: Contractor Bid Mobilization 2" PE Mobilization OT 2" PE Mobilization Dig 2" PEMobilization Replace 2" Steel Mobilization OT 2" Steel Mobilization Dig 2" Steel Mobilization Replace Pipe Installtion 2" PE Install OT (ft) 2" PE Install Dig (ft) 2" PE Install Replace (fl) 2" Steel Install OT (ft) 2" Steel Install Dig (ft) 2" Steel Install Replace (ft) 2" PE & STL Missle/Hog shot (ft) 2" PE Directional Bore (ft) **Dirt 2" PE Directional Bore (ft) **Rock 2" Steel Directional Bore (ft) **Dirt 2" Steel Directional Bore (ft) **Rock Additional Tie-in Fittings (First included in mobilization) 2" Tie-in, Top Tap (Each) 2" Tie-in, Wrap Around (Each) 2" or smaller 90's, tees, etc. (Each) 2" Steel to PE Transition (Each) 2" PE Cut & Cap (Each) 2" Steel Cut & Cap (Each) 4" Tie-in, Top Tap (Each) 4" Tie-in, Wrap Around (Each) 4" 90's, Tees, Etc (Each) 4" Steel to PE Transition (Each) 4" PE Cut & Cap (Each) 4" PE Steel Cut & Cap (Each) 6" Tie-in, Wrap Around (Each) 6" 90's, Tees, Etc (Each) 6" Steel to PE Transition 6" PE Cut & Cap (Each) 6" Steel Cut & Cap Blacktop Blacktop SawCut, per inch thickness per foot (ft* in.) Depth (in) Length (ft) Blacktop SawCut, minimum charge Blacktop Remove Only (sq ft), assumes 4" depth Blacktop Remove and Replace up to 4" depth, (sq ft), under 400 sq ft Blacktop Remove and Replace up to 4" depth, (sq ft), over 400 sq ft Blacktop Remove and Replace, minimum charge (each) Blacktop Remove and Replace, per additional depth in inches over 4" per square footage (in*sq ft) Depth (in) Area (sq fl) Blacktop Disposal, (ton)

Concrete

Concrete SawCut, per inch thickness per foot (fl* in)	Depth (in): Length (ft)	
Concrete SawCul, minimum charge (each)		
Concrete Remove (sq ft), up to 4" depth	REDACTED	EXHIBIT A1
Concrete sidewalk break, remove and replace 4" thick under 400 sq ft		
Concrete sidewalk break, remove and replace 4" thick over 400 square feet.		
Concrete sidewalks break, remove, replace over 4"thick, 1" increments Concrete street break, remove and replace up to 8" thick		
Concrete street over 8" thick break, remove and replace, 1" increments	30	
Concrete Remove, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in): 4 Area (sq ft)	
Concrete Place (sq ft), up to 4" depth		
Concrete Place, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in): 4 Area (sq ft)	
Concrete Remove and Replace, minimum charge (each)		
Concrete Disposal, per ton		
New Fill Material		
Cold Mix, in place (sq ft)		
CDF, per cubic yard (cu yard)		
Gravel, pit run, in place (cu yard) Crushed rock, cinder, in place (cu yard)		
Lava rock, in place (cu yard)		
Sand, in place (cu yard)		
Topsoil (cu yard)		
Beauty Bark (cu yard)		
Sod Remove/Replace (sq fl)		
Sand bags, in place (Each) Haul off extra material, (cu yard)		
Miscellaneous Items Trenching over 3' deep, per foot of trench (fl)	1 1	
Trench Shoring, per foot of trench (ft)		
Frost over 3", per foot of trench (ft)		
Rock saw mobilization		
Rock saw 6" wide, 30" deep, per foot of trench (ft)		
Rock saw 6" wide, depth > 30", per 12" incr. (enter total addit, depth over 30" in inches)	Depth (in): Length (ft)	
Jackhammer, hyd. Backhoe 30" Deep, per foot (ft) Jackhammer, hyd. Backhoe, depth > 30", per 12" Incr. (enter total addit. depth over 30" in inches)	Depth (in): Length (ft)	
Rock, Hard pan, per foot of trench (ft)	Sopar (m)	
Additional tie-in hole or bell hole, (Each)		
Bell Hole Shoring, (sq ft)		
Street Plates 5X7 daily per plate	Plates Days	
Street Plates 7X12 daily per plate	Plates Days	
Install barricade or guard post, lump sum Flagging that requires a traffic plan, per hour (hr)		
Service Drill - 2" & smaller - 100' minimum, 200' maximum		
Meter Sets		
Install HPSS, per each (each)		
Fabricate meter set 10P - drawings attached in CP 685, per each (each)		
Fabricate meter set 11 - drawings attached in CP 685, per each (each)		
Fabricate meter set 11P - drawings attached in CP 685, per each (each)		
Fabricate meter set 12 - drawings attached in CP 685, per each (each)		
Fabricate meter set 12P - drawings attached in CP 685, per each (each) Fabricate meter set 13P - drawings attached in CP 685, per each (each)		
Fabricate meter set 14P - drawings attached in CP 685, per each (each)		
Fabricate meter set 15P - drawings attached in CP 685, per each (each)		
Additional Labor and T&M Rates		
JD 310 Backhoe with operator		
Backhoe 580K with hydraulic jackhammer & operator		
Dump truck & driver		
Vacuum trailer only (no operator) Welding rig with welder & helper		
Superintendent		
Foreman		
Welder Foreman		
Welder/Journeyman		
BOA Welder		
Fuser Welder Helper		
Operator		
Laborer		
Overtime Rates		
Superintendent		
Foreman		
Welder Foreman		
Welder/Journeyman		
BOA Welder Fuser		
Welder Helper		
Operator		
Laborer		
Per Diem Will be negotiated between contractor and owner		
2 Person crew per diem per hour		
3 Person crew per diem per hour		
Crew per diem per person per day		
Other:		

Sub-Total: Contractor Labor				
Enter Correct Sales Tax:	REDACT	ΓED		EXHIBIT A1
TOTAL: CONTRACTOR LABOR				
		100000		i alle de la companie
Trench volume calculator:	Length (ft):	Width (ft):	Depth (ft):	Volume (yds): \$
Concrete/blacktop tonnage calculator:	Length (ft):	Width (ft):	Depth (in):	Weight (tons): \$ -
CNGC LABOR CNGC Travel Time (to and from project) Metering & Electronic Inspector A Control Equipment Mechanic Distribution Clerk A Combination Welder Service Line Welder Backhoe Operator Utility A Laborer				
District 3 Man Crew (Comb Welder, Operator, Utillity) District 3 Man Crew + Control Equipment Mechanic				
Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utillity) Overtime Rate: District 3 Man Crew + Control Equipment Mechanic Sub-Total: CNGC Travel Time				\$ -
CNGC Company Labor (inspection and miscellaneous record keeping/documentation Metering & Electronic Inspector A Control Equipment Mechanic Distribution Clerk A Combination Welder Service Line Welder Backhoe Operator Utility A Laborer District 3 Man Crew (Comb Welder, Operator, Utillity) District 3 Man Crew + Control Equipment Mechanic	on).			
Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utillity) Overtime Rate: District 3 Man Crew + Control Equipment Mechanic Sub-Total: CNGC Company Labor		5		
TOTAL: CNGC LABOR			Contingend	sy
EQUIPMENT CNGC Vehicles (per mile rate) Compact Car Compact Pickup Mid-Size SUV Compact Van Full Size SUV 12, 3/4 & 1 Ton Van 1/2, 3/4 & 1 Ton Van 1/2 Ton Pickup 1/4 Ton Pickup 1/5 Ton Pickup 1/5 Ton Pickup 1/6 Ton Pickup 1/7 Trucks 14001-19500 GVWR 1/7 Trucks 19501-32999 GVWR 1/7 Trucks 33000-59999 GVWR 1/7 Compressor (per hour rate) 1/7 Trench Plow Combo 35-100 hp 1/7 Sikid-Steer Loader 1/7 Tractor WBackhoe-Front End Loader 1/7 Compressors 1/8 Welders (Gas Operated)				
Sub-Total: CNGC Equipment				\$ -
Rental Equipment (inquire locally for unit rate) Water Truck Caterpillar 320 Track Hoe with 42" Bucket Caterpillar 314 Track Hoe with 36" Bucket Caterpillar How Pack Caterpillar D5G Dozer Delivery Charge				
Sub-Total: Rented Equipment				\$ -
TOTAL: EQUIPMENT			Contingend	\$ - \$ -
OTHER Travel, Food and Lodging Expenses Gasoline Hotel and Meals (out of town labor) Meals (in town labor) Miscellaneous expenses (OT) Permits Sub-Total: Other			Contingence	.v
TOTAL: OTHER				\$ - \$ -

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ESTIMATOR:		Current ES&GA Rate:
DISTRICT:		
CITY:		
DATE:		
DESCRIPTION:		
Brit Creer Apartments , Instalation of Mains	for service to Britt Creer Apartments in West Richland	East of Keene Rd Phase 6 Expansion
ESTIMATED IN SERVICE DATE:		

			Costs for feasibilty worksheets and PowerPlan	t 11	Total estimated cost for project authorization
CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Total Direct Cost	CNGC Corporate Overhead	Total Project Costs
Materials					
1" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Materials					
6" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CNGC Labor					
1" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment					
1" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	7,717,7
2" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	
4" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other					
1" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Other	\$0.00	\$0.00	\$0.00	\$0.00	
6" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contractor Labor					
1" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	101000000
4" Contractor Labor					
6" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CNGC Facility Costs					
TOTAL PROJECT COST					
Total Pipe Footage	275 fe	et	Total Estimated Cost P	er Foot:	
Reimbursable Projects	Enter FIT		Total Cost For Reimbur	sement:	
EIT is 10 04% in WA and 11 7% in OP					

Reimbursable Projects
FIT is 10.94% in WA and 11.7% in OR.

General Notes:

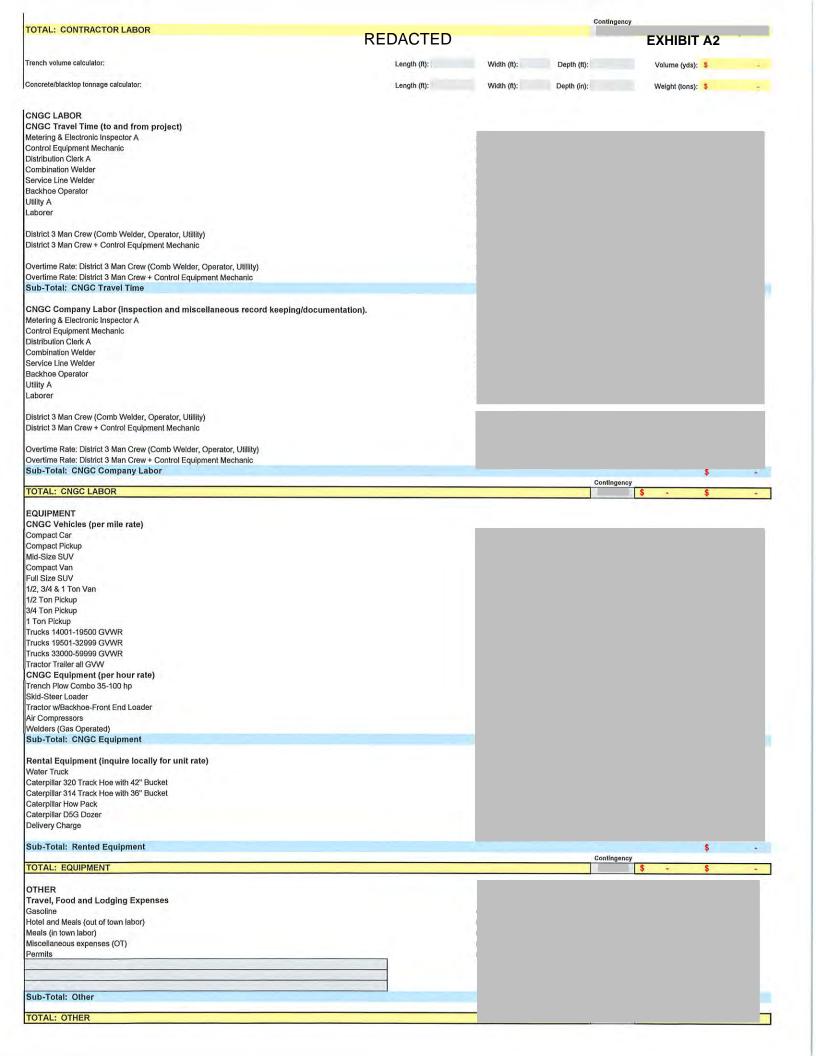
PRELIMINARY ESTIMATE PENDING FINAL SITE LAYOUT APPROVAL BY CITY

CASCADE NATURAL GAS CORPORATION

4" MAREBAETIEDE EXHIBIT A2 Item Quantity MATERIALS 4" MDPE Pipe Part#: PPE-560 4" Epoxy Coated Steel Pipe Part#: PFBE-550X42 Tracer Wire Part#: H-115 Test Station Marker Part#: H-105 Burial Kit Part#: H-1030 & H1040 Round Locate Coupon Part #: H-760 1" Sav-a-valve Part#: NP-213 2" Royston Wrap Part#: H-7 4" Royston Wrap Part#; H-8 Royston Primer Part#: H-12 Trenton Underground Tape Part#: H-780 Trenton Primer Part#: H-782 4" Transition Part#: H-110 4" Top Tap Stop Part#: SP-556 4" Bottom Out Stop Part#: SP-554 4" 90 Weld Ell Part#; EL-555 4" PE Cap Part#: PCA-520 4" Electro Coupler Part #: PCP-570 4" PE Tee Part#: PTE-560 4" PE Ell Part#: PEL-560 Misc Part Sub-Total: Materials **TOTAL: Materials** CONTRACTOR LABOR Item Quantity **Unit Cost** Total Enter Bid Price: Contractor Bid Mobilization 4" PE Mobilization OT 4" PE Mobilization Dig 4" PE Mobilization Replace 4" Steel Mobilization OT 4" Steel Mobilization Dig 4" Steel Mobilization Replace Pipe Installtion 4" PE Install OT (ft) 4" PE Install Dig (ft) 4" PE Install Replace (ft) 4" Steel Install OT (ft) 4" Steel Install Dig (ft) 4" Steel Install Replace (ft) 4" PE & STL Missle/Hog shot (ft) 4" PE Directional Bore (ft) **Dirt 4" PE Directional Bore (ft) **Rock 4" Steel Directional Bore (ft) **Dirt 4" Steel Directional Bore (ft) **Rock Additional Tie-in Fittings (First included in mobilization) 2" Tie-in, Top Tap (Each) 2" Tie-in, Wrap Around (Each) 2" or smaller 90's, tees, etc. (Each) 2" Steel to PE Transition (Each) 2" PE Cut & Cap (Each) 2" Steel Cut & Cap (Each) 4" Tie-in, Top Tap (Each) 4" Tie-in, Wrap Around (Each) 4" 90's, Tees, Etc (Each) 4" Steel to PE Transition (Each) 4" PE Cut & Cap (Each) 4" PE Steel Cut & Cap (Each) 6" Tie-in, Wrap Around (Each) 6" 90's, Tees, Etc (Each) 6" Steel to PE Transition 6" PE Cut & Cap (Each) 6" Steel Cut & Cap Blacktop Blacktop SawCut, per inch thickness per foot (fl* in.) Depth (in) Length (ft) Blacktop SawCut, minimum charge Blacktop Remove Only (sq ft), assumes 4" depth Blacktop Remove and Replace up to 4" depth, (sq fl), under 400 sq ft Blacktop Remove and Replace up to 4" depth, (sq ft), over 400 sq ft Blacktop Remove and Replace, minimum charge (each) Blacktop Remove and Replace, per additional depth in inches over 4" per square footage (in*sq ft) Depth (in) Area (sq ft) Blacktop Disposal, (ton) Concrete Concrete SawCut, per inch thickness per foot (ft* in) Length (ft) Depth (in):

Concrete SawCut, minimum charge (each)

Concrete Remove (sq ft), up to 4" depth Concrete sidewalk break, remove and replace 4" thick under 400 sq ft Concrete sidewalk break, remove and replace 4" thick over 400 square feet. Concrete sidewalks break, remove, replace over 4" thick, 1" increments Concrete street break, remove and replace up to 8" thick Concrete street over 8" thick break, remove and replace, 1" increments	REDACTED	EXHIBIT A2
Concrete Remove, per additional depth in inches over 4" per square footage (in*sq ft) Concrete Place (sq ft), up to 4" depth	Depth (in): Area (sq ft)	
Concrete Place, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in): Area (sq ft)	
Concrete Remove and Replace, minimum charge (each) Concrete Disposal, per ton		
New Fill Material		
Cold Mix, in place (sq ft)		
CDF, per cubic yard (cu yard) Gravel, pit run, in place (cu yard)		
Crushed rock, cinder, in place (cu yard)		
Lava rock, in place (cu yard)		
Sand, in place (cu yard) Topsoil (cu yard)		
Beauty Bark (cu yard)		
Sod Remove/Replace (sq ft)		
Sand bags, in place (Each) Haul off extra material, (cu yard)		
Miscellaneous Items Trenching over 3' deep, per foot of trench (ft)		
Trench Shoring, per foot of trench (ft)		
Frost over 3", per foot of trench (ft) Rock saw mobilization		
Rock saw 6" wide, 30" deep, per foot of trench (ft)		
Rock saw 6" wide, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)	Depth (in): Length (ft)	
Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)	Death and	
Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches) Rock, Hard pan, per foot of trench (ft)	Depth (in): Length (fl)	
Additional tie-in hole or bell hole, (Each)		
Bell Hole Shoring, (sq ft) Street Plates 5X7 daily per plate	Plates Days	
Street Plates 7X12 daily per plate	Plates Days Plates Days	
Install barricade or guard post, lump sum		
Flagging that requires a traffic plan, per hour (hr) Service Drill - 2" & smaller - 100' minimum, 200' maximum		
Meter Sets Install HPSS, per each (each)		
Fabricale meter set 10P - drawings attached in CP 685, per each (each)		
Fabricate meter set 11 - drawings attached in CP 685, per each (each)		
Fabricate meter set 11P - drawings attached in CP 685, per each (each) Fabricate meter set 12 - drawings attached in CP 685, per each (each)		
Fabricate meter set 12P - drawings attached in CP 685, per each (each)		
Fabricate meter set 13P - drawings attached in CP 685, per each (each) Fabricate meter set 14P - drawings attached in CP 685, per each (each)		
Fabricate meter set 15P - drawings attached in CP 685, per each (each)		
Additional Labor and T&M Rates		
JD 310 Backhoe with operator		_
Backhoe 580K wilh hydraulic jackhammer & operator Dump truck & driver		
Vacuum trailer only (no operator)		
Welding rig with welder & helper		
Superintendent Foreman		
Welder Foreman		
Welder/Journeyman		
BOA Welder Fuser		
Welder Helper		
Operator Laborer		
Overtime Rates Superintendent		
Foreman		
Welder Foreman		
Welder/Journeyman BOA Welder		
Fuser		
Welder Helper		
Operator Laborer		
Per Diem Will be negotiated between contractor and owner		
2 Person crew per diem per hour		-
3 Person crew per diem per hour		
Crew per diem per person per day		
Other:		
Sub-Total: Contractor Labor Enter Correc	t Sales Tay	
Enter Correc	Lucius Ida.	



ESTIMATOR:					Current ES&GA Rate
DISTRICT:					
CITY:		THE STATE OF THE S			
DATE:					
DATE					
DESCRIPTION:		V			
Provide Mains for AHO 120 Apartm	ent Complex North of	Keene Rd Phase 6 Exp	ansion in West Richla	nd	
m					
ESTIMATED IN SERVICE DATE:					
			Costs for feasibilty worksheets and PowerPlan		Total estimated cost for project authorization
CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Total Direct Cost	CNGC Corporate Overhead	Total Project Costs
Materials					
1" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Materials					
4" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CNGC Labor					
1" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment 1" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other	Ψ0.00	ψ0.00	φ0.00	φ0.00	Ψ0.00
1" Other	\$0.00	¢0.00	¢0.00	¢0.00	\$0.00
2" Other	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00
			110000000000000000000000000000000000000	\$0.00	44000
4" Other 6" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Contractor Labor	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υι
4" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	
CNGC Facility Costs	\$5.00	\$3.00	\$5.00	Ψ0.00	\$0.00
TOTAL PROJECT COST					
Total Pipe Footage	450	feet	Total Estimated Cost P	er Foot:	
Reimbursable Projects	Enter FIT		Total Cost For Reimbur		

Estimate is based on standard rates for materials, labor, and equipment.

General Notes:

2" MAIN OR EDAICHED

Item MATERIALS 2" MDPE Pipe Part#: PPE-355 2" Epoxy Coated Steel Pipe Grade B (20' Lengths) Part#: PFBE-355 2" Epoxy Coaled Steel Pipe Part#: PFBE-356 Tracer Wire Part#: H-115 Test Station Marker Part#: H-105 Burial Kit Part#: H-1030 & H1040 Round Locate Coupon Part #: H-760 1" Sav-a-valve Part#: NP-213 2" Royston Wrap Part#: H-7 4" Royston Wrap Part#: H-8 Royston Primer Part#: H-12 Trenton Underground Tape Part#: H-780 Trenton Primer Part#; H-782 2" Transition Part#: H-109 2" Top Tap Stop Part#: SP-356 2" Bottom Out Stop Part#: SP-358 2" 90 Weld Ell Part#: EL-360 2" Steel Service Tee Part#: TE-363 2" PE Cap Part#: PCA-320 2" Electro Coupler Part #: PCP-360 2" PE Tee Part#: PTE-360 2" PE 90 Ell Part#: PEL-360 Marker Ball Misc Parts for Transition Sub-Total: Materials TOTAL: Materials CONTRACTOR LABOR Item Contractor Bid Mobilization 2" PE Mobilization OT 2" PE Mobilization Dig 2" PEMobilization Replace 2" Steel Mobilization OT 2" Steel Mobilization Dig 2" Steel Mobilization Replace Pipe Installtion 2" PE Install OT (ft) 2" PE Install Dig (ft) 2" PE Install Replace (ft) 2" Steel Install OT (ft) 2" Steel Install Dig (ft) 2" Steel Install Replace (ft) 2" PE & STL Missle/Hog shot (ft) 2" PE Directional Bore (ft) **Dirt 2" PE Directional Bore (ft) **Rock 2" Steel Directional Bore (ft) **Dirt 2" Steel Directional Bore (ft) **Rock Additional Tie-in Fittings (First included in mobilization) 2" Tie-in, Top Tap (Each) 2" Tie-in, Wrap Around (Each) 2" or smaller 90's, tees, etc. (Each) 2" Steel to PE Transition (Each) 2" PE Cut & Cap (Each) 2" Steel Cut & Cap (Each) 4" Tie-in, Top Tap (Each) 4" Tie-in, Wrap Around (Each) 4" 90's, Tees, Etc (Each) 4" Steel to PE Transition (Each) 4" PE Cut & Cap (Each) 4" PE Steel Cut & Cap (Each) 6" Tie-in, Wrap Around (Each) 6" 90's, Tees, Etc (Each) 6" Steel to PE Transition 6" PE Cut & Cap (Each) 6" Steel Cut & Cap Blacktop Blacktop SawCut, per inch thickness per foot (ft* in.) Depth (in) Length (ft) Blacktop SawCut, minimum charge Blacktop Remove Only (sq ft), assumes 4" depth Blacktop Remove and Replace up to 4" depth, (sq fl), under 400 sq ft Blacktop Remove and Replace up to 4" depth, (sq fl), over 400 sq ft Blacktop Remove and Replace, minimum charge (each) Blacktop Remove and Replace, per additional depth in inches over 4" per square footage (in*sq fl) Area (sq ft) Depth (in) Blacktop Disposal, (ton)

Concrete

Concrete SawCut, per inch thickness per foot (ft* in)	Depth (in): Length (fl)	
Concrete SawCut, minimum charge (each)		
Concrete Remove (sq ft), up to 4" depth	REDACTED	EXHIBIT A
Concrete sidewalk break, remove and replace 4" thick under 400 sq ft Concrete sidewalk break, remove and replace 4" thick over 400 square feet.		
Concrete sidewalks break, remove, replace over 4" thick, 1" increments		
Concrete street break, remove and replace up to 8" thick		
Concrete street over 8" thick break, remove and replace, 1" increments Concrete Remove, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in): 30 Area (sq ft)	
Concrete Place (sq ft), up to 4" depth		
Concrete Place, per additional depth in inches over 4" per square footage (in*sq ft) Concrete Remove and Replace, minimum charge (each)	Depth (in): 4 Area (sq ft)	
Concrete Disposal, per ton		
New Fill Material		
Cold Mix, in place (sq ft)		
CDF, per cubic yard (cu yard)		
Gravel, pit run, in place (cu yard) Crushed rock, cinder, in place (cu yard)		
Lava rock, in place (cu yard)		
Sand, in place (cu yard)		
Topsoil (cu yard) Beauly Bark (cu yard)		
Sod Remove/Replace (sq ft)		
Sand bags, in place (Each) Haul off extra material, (cu yard)		
Miscellaneous Items Trenching over 3' deep, per foot of trench (ft)		
Trench Shoring, per foot of trench (ft)		
Frost over 3", per foot of trench (ft)		
Rock saw mobilization Rock saw 6" wide, 30" deep, per foot of trench (ft)	and the second second	
Rock saw 6" wide, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)	Depth (in): Length (ft)	
Jackhammer, hyd. Backhoe 30" Deep, per foot (ft) Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)	Denth (in):	
Rock, Hard pan, per fool of trench (ft)	Depth (in): Length (ft)	
Additional tie-in hole or bell hole, (Each)		
Bell Hole Shoring, (sq ft) Street Plates 5X7 daily per plate	Plates Days	
Street Plates 7X12 daily per plate	Plates Days	
Install barricade or guard post, lump sum		
Flagging that requires a traffic plan, per hour (hr) Service Drill - 2" & smaller - 100' minimum, 200' maximum		
Meter Sets		
Install HPSS, per each (each)		
Fabricate meter set 10P - drawings attached in CP 685, per each (each)		
Fabricate meter set 11 - drawings attached in CP 685, per each (each) Fabricate meter set 11P - drawings attached in CP 685, per each (each)		
Fabricate meter set 12 - drawings attached in CP 685, per each (each)		
Fabricate meter set 12P - drawings attached in CP 685, per each (each) Fabricate meter set 13P - drawings attached in CP 685, per each (each)		
Fabricate meter set 13P - drawings attached in CP 685, per each (each) Fabricate meter set 14P - drawings attached in CP 685, per each (each)		
Fabricate meter set 15P - drawings attached in CP 685, per each (each)		
Additional Labor and T&M Rates		
JD 310 Backhoe with operator		
Backhoe 580K with hydraulic jackhammer & operator Dump truck & driver		
Vacuum trailer only (no operator)		
Welding rig with welder & helper		
Superintendent Foreman		
Welder Foreman		
Welder/Journeyman BOA Welder		
Fuser		
Welder Helper		
Operator Laborer		
Overtime Rates Superintendent		
Foreman		
Welder Foreman		
Welder/Journeyman BOA Welder		
Fuser		
Welder Helper Operator		
Laborer		
Per Diem Will be negotiated between contractor and owner		
2 Person crew per diem per hour		
3 Person crew per diem per hour		
Crew per dlem per person per day		
Other:		

EDACTED Contingency E) gth (ft): Width (ft): Depth (ft): Volume (yds) gth (ft): Width (ft): Depth (in): Weight (tons)	
gth (ft): Width (ft): Volume (yds)	
	XHIBIT A3
gth (ft): Width (ft): Depth (in): Weight (tons)	
	E. \$
	\$ -
Contingency	
\$	\$ -

DATE: DESCRIPTION: AHO APARTMENTS 106 UNIT WEST RICHLA ESTIMATED IN SERVICE DATE: Sul Di CNGC Cost Summary Materials 1" Materials 2" Materials 4" Materials 6" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	btotal birect Cost \$0.00 \$0.00 \$0.00 \$0.00	Contingency Cost \$0.00 \$0.00 \$0.00	Costs for feasibilty worksheets and PowerPlan Total Direct Cost \$0.00 \$0.00	CNGC Corporate Overhead \$0.00 \$0.00	\$0.00 \$0.00
CNGC Cost Summary Materials 1" Materials 2" Materials 4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00	Contingency Cost \$0.00 \$0.00 \$0.00	Costs for feasibility worksheets and PowerPlan Total Direct Cost \$0.00	Corporate Overhead \$0.00 \$0.00	Total Project Costs \$0.00
DATE: DESCRIPTION: AHO APARTMENTS 106 UNIT WEST RICHLA ESTIMATED IN SERVICE DATE: Sul Di CNGC Cost Summary Materials 1" Materials 2" Materials 4" Materials 6" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00	Contingency Cost \$0.00 \$0.00 \$0.00	Costs for feasibility worksheets and PowerPlan Total Direct Cost \$0.00	Corporate Overhead \$0.00 \$0.00	Total Project Costs \$0.00
DESCRIPTION: AHO APARTMENTS 106 UNIT WEST RICHLA ESTIMATED IN SERVICE DATE: Sul Di CNGC Cost Summary Materials 1" Materials 2" Materials 4" Materials 6" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00	Contingency Cost \$0.00 \$0.00 \$0.00	Costs for feasibility worksheets and PowerPlan Total Direct Cost \$0.00	Corporate Overhead \$0.00 \$0.00	Total Project Costs \$0.00
Sul CNGC Cost Summary CNGC Cost Summary CNderials 1" Materials 2" Materials 4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00	Contingency Cost \$0.00 \$0.00 \$0.00	Costs for feasibility worksheets and PowerPlan Total Direct Cost \$0.00	Corporate Overhead \$0.00 \$0.00	Total Project Costs \$0.00
Sul Di CNGC Cost Summary CNGC Cost Summary CNGC Cost Summary Materials 1" Materials 2" Materials 4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00	Contingency Cost \$0.00 \$0.00 \$0.00	Costs for feasibility worksheets and PowerPlan Total Direct Cost \$0.00	Corporate Overhead \$0.00 \$0.00	Total Project Costs \$0.00
Sul Di CNGC Cost Summary C Materials 1" Materials 2" Materials 4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	worksheets and PowerPlan Total Direct Cost \$0.00	Corporate Overhead \$0.00 \$0.00	Total Project Costs \$0.00
CNGC Cost Summary Materials 1" Materials 2" Materials 4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	worksheets and PowerPlan Total Direct Cost \$0.00	Corporate Overhead \$0.00 \$0.00	Total Project Costs \$0.00
CNGC Cost Summary Materials 1" Materials 2" Materials 4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Corporate Overhead \$0.00 \$0.00	Project Costs \$0.00 \$0.00
2" Materials 4" Materials 6" Materials CNGC Labor	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00
2" Materials 4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
4" Materials 6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00
6" Materials CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00
CNGC Labor 1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	\$0.00	\$0.00			
1" CNGC Labor 2" CNGC Labor 4" CNGC Labor	450000000000000000000000000000000000000	The second secon	\$0.00	90.00	¢0.00
2" CNGC Labor 4" CNGC Labor	450000000000000000000000000000000000000	The second secon	\$0.00	00.02	90.02
4" CNGC Labor	\$0.00	11111	φυ.υυ	Ψ0.00	φυ.υι
Control of the Contro		\$0.00	\$0.00	\$0.00	\$0.00
6" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
O ONOO EUDOI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment					
1" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other					
1" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contractor Labor					
1" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Contractor Labor					
4" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CNGC Facility Costs					
TOTAL PROJECT COST					
Total Pipe Footage	190	feet 1	otal Estimated Cost P	er Foot:	
Reimbursable Projects FIT is 10.94% in WA and 11.7% in OR.	Enter FIT	1	otal Cost For Reimbur	rsement:	

		2" MAII	N REDACTED
	Item		MATERIALS
2" MDPE Pipe Part#: PPE-355	Lubra Web and American		II EI WIE V
2" Epoxy Coated Steel Pipe Grade B (20' L- 2" Epoxy Coated Steel Pipe Part#: PFBE-3.			
Tracer Wire Part#: H-115			
Test Station Marker Parl#: H-105 Burial Kil Parl#: H-1030 & H1040			
Round Locate Coupon Part #: H-760			
1" Sav-a-valve Part#: NP-213			
2" Royston Wrap Part#; H-7 4" Royston Wrap Part#; H-8			
Royston Primer Part#: H-12			
Trenton Underground Tape Part#: H-780			
Trenton Primer Part#: H-782			
2" Transition Part#: H-109 2" Top Tap Stop Part#: SP-356			
2" Bottom Out Stop Part#: SP-358			
2" 90 Weld Ell Part#: EL-360 2" Steel Service Tee Part#: TE-363			
2" PE Cap Part#: PCA-320			
2" Electro Coupler Part #: PCP-360			
2" PE Tee Part#; PTE-360 2" PE 90 Ell Part#; PEL-360			
Marker Ball			1
Misc fittings			
Sub-Total: Materials			
TOTAL: Materials	_ = ===================================		
	Item	CON	NTRACTOR LABOR
Contractor Bid	Kem		
Mobilization			
2" PE Mobilization OT 2" PE Mobilization Dig			
2" PEMobilization Replace			
2" Steel Mobilization OT			
2" Steel Mobilization Dig			
2" Steel Mobilization Replace			
Pipe Installtion			
2" PE Install OT (ft)			
2" PE Install Dig (ft) 2" PE Install Replace (ft)			
2" Steel Install OT (ft)			
2" Steel Install Dig (ft)			
2" Steel Install Replace (ft) 2" PE & STL Missle/Hog shot (ft)			
2" PE Directional Bore (ft) **Dirt			
2" PE Directional Bore (ft) **Rock			
2" Steel Directional Bore (ft) **Dirt			
2" Steel Directional Bore (ft) **Rock			
Additional Tie-in Fittings (First inclu	ded in mobilization)		
2" Tie-in, Top Tap (Each)			
2" Tie-in, Wrap Around (Each) 2" or smaller 90's, tees, etc. (Each)			
2" Steel to PE Transition (Each)			
2" PE Cut & Cap (Each)			
2" Steel Cut & Cap (Each) 4" Tie-in, Top Tap (Each)			
4" Tie-in, Wrap Around (Each)			
4" 90's, Tees, Etc (Each)			
4" Steel to PE Transition (Each)			
4" PE Cut & Cap (Each) 4" PE Steel Cut & Cap (Each)			
6" Tie-in, Wrap Around (Each)			
6" 90's, Tees, Etc (Each)			
6" Steel to PE Transition			
6" PE Cut & Cap (Each) 6" Steel Cut & Cap			
Blacktop	oot (fi* in)		Depth (in) Length (
Blacktop SawCut, per inch thickness per for Blacktop SawCut, minimum charge	we (it iii.)		Depth (in) Length (
Blacktop Remove Only (sq ft), assumes 4"			
Blacktop Remove and Replace up to 4" de			
Blacktop Remove and Replace up to 4" de Blacktop Remove and Replace, minimum			

Blacktop Remove and Replace, per additional depth in inches over 4" per square foolage (in*sq ft) Blacktop Disposal, (ton) Depth (in) Area (sq ft) Concrete

	attack to the terminal	
Concrete SawCut, per inch thickness per foot (ft* in)	Depth (in): Length (ft)	
Concrete SawCut, minimum charge (each)	REDACTED	EXHIBIT A
Concrete Remove (sq ft), up to 4" depth Concrete sidewalk break, remove and replace 4" thick under 400 sq ft	KEDKOTED	LAIIIDII A
Concrete sidewalk break, remove and replace 4" thick over 400 square feet.		
Concrete sidewalks break, remove, replace over 4" thick, 1" increments		
Concrete street break, remove and replace up to 8" thick		
Concrete street over 8" thick break, remove and replace, 1" increments	30	
Concrete Remove, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in): 4 Area (sq ft)	
Concrete Place (sq ft), up to 4" depth Concrete Place, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in): 4 Area (sq ft)	
Concrete Remove and Replace, minimum charge (each)	Depin (iii). 4 Niea (sq ii)	
Concrete Disposal, per ton		
New Fill Material		
Cold Mix, in place (sq ft) CDF, per cubic yard (cu yard)		
Gravel, pit run, in place (cu yard)		
Crushed rock, cinder, in place (cu yard)		
Lava rock, in place (cu yard)		
Sand, in place (cu yard)		
Topsoil (cu yard) Beauty Bark (cu yard)		
Sod Remove/Replace (sq ft)		
Sand bags, in place (Each)		
Haul off extra malerial, (cu yard)		
Miscellaneous Items		
Trenching over 3' deep, per foot of trench (ft)		
Trench Shoring, per foot of trench (ft)		
Frost over 3", per foot of trench (ft)		
Rock saw mobilization Rock saw 6" wide, 30" deep, per foot of trench (ft)		
Rock saw 6 "wide, 30" deep, per foot of french (ft) Rock saw 6" wide, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)	Depth (in): Length (ft)	
Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)		
Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)	Depth (in): Length (ft)	
Rock, Hard pan, per foot of trench (ft)		
Additional tie-in hole or bell hole, (Each) Bell Hole Shoring, (sq ft)		
Street Plates 5X7 daily per plate	Plates Days	
Street Plates 7X12 daily per plate	Plates Days	
Install barricade or guard post, lump sum		
Flagging that requires a traffic plan, per hour (hr)		
Service Drill - 2" & smaller - 100' minimum, 200' maximum		
Meter Sets		
Install HPSS, per each (each)		
Fabricate meter set 10P - drawings attached in CP 685, per each (each) Fabricate meter set 11 - drawings attached in CP 685, per each (each)		
Fabricate meter set 11P - drawings attached in CP 685, per each (each)		
Fabricale meter set 12 - drawings attached in CP 685, per each (each)		
Fabricate meter set 12P - drawings attached in CP 685, per each (each)		
Fabricate meter set 13P - drawings attached in CP 685, per each (each)		
Fabricate meter set 14P - drawings attached in CP 685, per each (each) Fabricate meter set 15P - drawings attached in CP 685, per each (each)		
Tablisate motor set for a diamings attached in or soot, per each (each)		
Additional Labor and T&M Rates		
JD 310 Backhoe with operator		
Backhoe 580K with hydraulic jackhammer & operator Dump truck & driver		
Vacuum trailer only (no operator)		
Welding rig with welder & helper		
Superintendent		
Foreman		
Welder Foreman Welder/Journeyman		
BOA Welder		
Fuser		
Welder Helper		
Operator		
Laborer		
Overtime Rates		
Superintendent Foreman		
Welder Foreman		
Welder/Journeyman		
BOA Welder		
Fuser		
Weider Helper Operator		
Laborer		
Per Diem Will be negotiated between contractor and owner 2 Person crew per diem per hour		
3 Person crew per diem per hour		
Crew per diem per person per day		
Other:		
the state of the s		

Sub-Total: Contractor Labor Enter Correct Sales Ta	x: _			\$.
TOTAL: CONTRACTOR LABOR	* REDAC	TED	Contingency	EXHIBIT A4
Trench volume calculator:	Length (ft):	Width (ft):	Depth (ft):	Volume (yds); \$
Concrete/blacktop tonnage calculator:	Length (ft):	Width (ft):	Depth (in):	Weight (tons): \$
CNGC LABOR CNGC Travel Time (to and from project) Metering & Electronic Inspector A Control Equipment Mechanic Distribution Clerk A Combination Welder Service Line Welder Backhoe Operator Utility A Laborer District 3 Man Crew (Comb Welder, Operator, Utillity)				
District 3 Man Crew + Control Equipment Mechanic				
Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utillity) Overtime Rate: District 3 Man Crew + Control Equipment Mechanic Sub-Total: CNGC Travel Time				
CNGC Company Labor (inspection and miscellaneous record keeping/documental Metering & Electronic Inspector A Control Equipment Mechanic Distribution Clerk A Combination Welder Service Line Welder Backhoe Operator Utility A Laborer	ation).			
District 3 Man Crew (Comb Welder, Operator, Utillity) District 3 Man Crew + Control Equipment Mechanic				
Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utillity) Overtime Rate: District 3 Man Crew + Control Equipment Mechanic Sub-Total: CNGC Company Labor				
TOTAL: CNGC LABOR				3
EQUIPMENT CNGC Vehicles (per mile rate) Compact Car Compact Pickup Mid-Size SUV Compact Van Full Size SUV 1/2, 3/4 & 1 Ton Van 1/2 Ton Pickup 3/4 Ton Pickup Trucks 14001-19500 GVWR Trucks 14001-19500 GVWR Trucks 33000-5999 GVWR Trucks 33000-5999 GVWR Truckor Trailer all GVW CNGC Equipment (per hour rate) Trench Plow Combo 35-100 hp Skid-Steer Loader Tractor w/Backhoe-Front End Loader Air Compressors Welders (Gas Operated)				
Sub-Total: CNGC Equipment Rental Equipment (inquire locally for unit rate) Water Truck Caterpillar 320 Track Hoe with 42" Bucket Caterpillar 314 Track Hoe with 36" Bucket Caterpillar How Pack Caterpillar D5G Dozer Delivery Charge				
Sub-Total: Rented Equipment				
TOTAL: EQUIPMENT				
OTHER Travel, Food and Lodging Expenses Gasoline Hotel and Meals (out of town labor) Meals (in town labor) Miscellaneous expenses (OT) Permits				
Sub-Total: Other				
TOTAL: OTHER		_		

ESTIMATOR:				100	Current ES&GA Rate
DISTRICT:					
CITY:		Per College			
DATE:					
27.1.2.	1				
DESCRIPTION:					
Heights at Red Mountain, New Res	nuential Home Develo	ment III west Kicilian	u, WA 99.5 ACERS FOR NE	w Single Family resi	dences, and Multi Fa
ESTIMATED IN SERVICE DATE:	The same of				
1			Costs for feasibilty worksheets and PowerPlan		Total estimated cost for project authorization
CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Total Direct Cost	CNGC Corporate Overhead	Total Project Costs
Materials					
1" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Materials	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Materials			4	******	7
6" Materials					
CNGC Labor	// 				
" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" CNGC Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment					191
1" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other					
1" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6" Other	\$5.00	\$5.00	\$5.50	ψ0.00	Ψ0.00
Contractor Labor	Market State of the State of th				
1" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2" Contractor Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4" Contractor Labor	+5.00	+5.00	\$5.50	Ψ0.00	40.00
6" Contractor Labor					
CNGC Facility Costs					
TOTAL PROJECT COST					
Total Pipe Footage	14,000	feet	Total Estimated Cost P	er Foot:	
The second secon	ojects Enter FIT Total Cost For Reimbursement:				

CASCADE NATURAL GAS CORPORATION

4" MARIEDS A COTTLETOE

EXHIBIT A5

ICH	MATERIALS	Quantity	Unit Cost	Total
4" MDPE Pipe Part#: PPE-560	MATERIALS			
4" Epoxy Coated Steel Pipe Part#: PFBE-550X42				
Tracer Wire Part#: H-115				
Test Station Marker Pari#: H-105				
Burial Kit Part#: H-1030 & H1040				
Round Locate Coupon Part #: H-760				
1" Sav-a-valve Parl#: NP-213				
2" Royston Wrap Part#: H-7				
4" Royston Wrap Part#: H-8				
Royston Primer Part#: H-12				
Trenton Underground Tape Part#: H-780				
Trenton Primer Part#: H-782				
4" Transition Part#: H-110				
4" Top Tap Stop Part#: SP-556				
4" Bottom Out Stop Part#: SP-554				
4" 90 Weld Ell Part#: EL-555				
4" PE Cap Part#: PCA-520				
4" Electro Coupler Part #: PCP-570				
4" PE Tee Part#: PTE-560				
4" PE Ell Part#: PEL-560				
Misc Parts				
Cub Totals Mataviala				
Sub-Total: Materials				
TOTAL: Materials				
TOTAL, Materials				
	CONTRACTOR LABOR			
Item	CONTRACTOR LABOR			
Contractor Bid				
Contractor Dia				
Mobilization				
4" PE Mobilization OT				
4" PE Mobilization Dig				
4" PE Mobilization Replace				
4" Steel Mobilization OT				
4" Steel Mobilization Dig				
4" Steel Mobilization Replace				
4 Otoci Wobilization (Copiace				
Pipe Installtion				
4" PE Install OT (ft)				
4" PE Install Dig (ft)				
4" PE Install Replace (ft)				
4" Steel Install OT (ft)				
4" Steel Install Dig (ft)				
4" Steel Install Replace (ft)				
4" PE & STL Missle/Hog shot (ft)				
4" PE Directional Bore (ft) **Dirt				
4" PE Directional Bore (ft) **Rock				
4" Steel Directional Bore (ft) **Dirt				
4" Steel Directional Bore (ft) **Rock				
XXY				
Additional Tie-in Fittings (First included in mobilization)				
2" Tie-in, Top Tap (Each)				
2" Tie-in, Wrap Around (Each)				
2" or smaller 90's, tees, etc. (Each)				
2" Steel to PE Transition (Each)				
2" PE Cut & Cap (Each)				
2" Steel Cut & Cap (Each)				
4" Tie-in, Top Tap (Each)				
4" Tie-in, Wrap Around (Each)				
4" 90's, Tees, Etc (Each)				
4" Steel to PE Transition (Each)				
4" PE Cut & Cap (Each)				
4" PE Steel Cut & Cap (Each)				
6" Tie-in, Wrap Around (Each)				
6" 90's, Tees, Etc (Each)				
6" Steel to PE Transition				
6" PE Cut & Cap (Each)				
6" Steel Cut & Cap				
Plackton				
Blacktop	Sauth Max 1	I coult (a)		
Blacktop SawCut, per inch thickness per foot (fi* in.)	Depth (in)	Length (ft)		
Blacktop SawCut, minimum charge				
Blacktop Remove Only (sq ft), assumes 4" depth				
Blacktop Remove and Replace up to 4" depth, (sq ft), under 400 sq ft				
Blacktop Remove and Replace up to 4" depth, (sq ft), over 400 sq ft				
Blacktop Remove and Replace, minimum charge (each) Blacktop Remove and Replace, per additional depth in inches over 4" per square footage (in*sq ft)	Donth (in)	Area (ca ft)		
Blacktop Disposal, (ton)	Depth (in)	Area (sq ft)		
Sidemore Sispedal, Italij				
Concrete				
Concrete SawCut, per inch thickness per foot (ft* in)	Depth (in):	Length (ft)		

Concrete SawCut, minimum charge (each)

	GASCADE NA	MAIN COST ESTIMATE				
	Item	AIN COST EST REDAC	TE:Diy	Unit Cost	Total	EXHIBIT A5
		MATERIALS		7.105.124	10.50	
6" MDPE Pipe Part#: PPE-660						
6" Xtru Coated Steel Pipe Part#: 650X52						
6" Epoxy Coated Steel Pipe Part#: PFBE-652X52						
Tracer Wire Part#: H-115						
Test Station Marker Part#: H-105						
Burial Kit Part#: H-1030 & H1040						
Round Locate Coupon Part #: H-760						
1" Sav-a-valve Part#: NP-213						
2" Royston Wrap Part#: H-7						
4" Royston Wrap Part#: H-8						
Royston Primer Part#: H-12						
Trenton Underground Tape Part#: H-780						
Trenton Primer Part#: H-782						
6" Transition Part#: H-732						
6" Bottom Out Stop Part#: SP-655						
6" 90 Weld Ell Part#: EL-657X52						
6" PE Cap Part#. PCA-620						
6" Electro Coupler Part #: PCP-650 6" PE Tee Part#: PTE-665						
6" PE EII Part#. PEL-660						
Misc Parts and Fittings						
Coupler						
Sub-Total: Materials						
Sub-1-state interests						
TOTAL: Materials						
		CONTRACTOR LABOR				
12-12-12-12-12-12-12-12-12-12-12-12-12-1	Item					
Contractor Bid						
ATT AND ADDRESS OF THE ADDRESS OF TH						
Mobilization						
6" PE Mobilization OT						
6" PE Mobilization Dig						
6" PE Mobilization Replace						
er to come						
Pipe Installtion			-			
6" PE Install OT (ft)						
6" PE Install Dig (ft)						
6" PE Install Replace (ft)						
6" PE Directional Bore (ft) **Dirt						
6" PE Directional Bore (ft) **Rock						
Additional Tie-in Fittings (First included i	n mobilization)					
	II MODINZACION)		-			
2" Tie-in, Top Tap (Each)						
2" Tie-in, Wrap Around (Each)						
2" or smaller 90's, tees, etc. (Each)						
2" Steel to PE Transition (Each)						
2" PE Cut & Cap (Each)						
2" Steel Cut & Cap (Each) 4" Tie-in, Top Tap (Each)						
4" Tie-in, Wrap Around (Each)						
4" 90's, Tees, Etc (Each)						
4" Steel to PE Transition (Each)						
4" PE Cut & Cap (Each)						
4" PE Steel Cut & Cap (Each) 6" Tie-in, Wrap Around (Each)						
6" 90's, Tees, Etc (Each)						
6" Steel to PE Transition						
6" PE Cut & Cap (Each) 6" Steel Cut & Cap						
o oteer out a cap						
Blacktop						
Blacktop SawCut, per inch thickness per foot (ft*	in.)	Depth (in) Length (ft)			
Blacktop SawCut, minimum charge						
Blacktop Remove Only (sq ft), assumes 4" depth	L					
Blacktop Remove and Replace up to 4" depth, (s.	q ft), under 400 sq ft					
Blacktop Remove and Replace up to 4" depth, (s	q ft), over 400 sq ft					
Blacktop Remove and Replace, minimum charge	(each)					
Blacktop Remove and Replace, per additional de	pth in inches over 4" per square footage (in*sq ft)	Depth (in) Area (sq f	t			
Blacktop Disposal, (ton)						

Concrete		
concrete SawCut, per inch thickness per foot (ft* in)	Depth (in):	Length (ft)
concrete SawCut, minimum charge (each)	put (m).	REDACTED
oncrete Remove (sq ft), up to 4" depth		KEDKOTED
oncrete sidewalk break, remove and replace 4" thick under 400 sq ft		
oncrete sidewalk break, remove and replace 4" thick over 400 square feet.		
oncrete sidewalks break, remove, replace over 4" thick, 1" increments concrete street break, remove and replace up to 8" thick		
concrete street over 8" thick break, remove and replace, 1" increments		
oncrete Remove, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in):	Area (sq ft)
oncrete Place (sq ft), up to 4" depth	e site of the fe	
oncrete Place, per additional depth in inches over 4" per square footage (in*sq ft)	Depth (in):	Area (sq ft)
oncrete Remove and Replace, minimum charge (each)		77 37 1
concrete Disposal, per ton		
lew Fill Material		
cold Mix, in place (sq ft)		
DF, per cubic yard (cu yard) Bravel, pit run, in place (cu yard)		
rushed rock, cinder, in place (cu yard)		
ava rock, in place (cu yard)		
and, in place (cu yard)		
opsoil (cu yard)		
leauty Bark (cu yard)		
od Remove/Replace (sq ft)		
and bags, in place (Each)		
laul off extra material, (cu yard)		
fiscellaneous Items		
renching over 3' deep, per foot of trench (ft)		
rench Shoring, per foot of trench (ft) rost over 3°, per foot of trench (ft)		
rost over 3 , per root of trench (it)		
tock saw fill wide, 30" deep, per foot of trench (ft)		
tock saw 6" wide, depth > 30", per 12" incr. (enter total addit, depth over 30" in inches)	Depth (in):	Length (ft)
ackhammer, hyd. Backhoe 30" Deep, per foot (ft)	Depart (m).	
ackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)	Depth (in):	Length (ft)
tock, Hard pan, per foot of trench (ft)		
dditional tie-in hole or bell hole, (Each)		
iell Hole Shoring, (sq ft)		
treet Plates 5X7 daily per plate	Plates	Days
treet Plates 7X12 daily per plate	Plates	Days
nstall barricade or guard post, lump sum		
lagging that requires a traffic plan, per hour (hr) ervice Drill - 2" & smaller - 100' minimum, 200' maximum		
Meter Sets Install HPSS, per each (each)		
abricate meter set 10P - drawings attached in CP 685, per each (each)		
abricate meter set 11 - drawings attached in CP 685, per each (each)		
abricate meter set 11P - drawings attached in CP 685, per each (each)		
abricate meter set 12 - drawings attached in CP 685, per each (each)		
abricate meter set 12P - drawings attached in CP 685, per each (each)		
abricate meter set 13P - drawings attached in CP 685, per each (each)		
abricate meter set 14P - drawings attached in CP 685, per each (each)		
abricate meter set 15P - drawings attached in CP 685, per each (each)		
additional Labor and T&M Rates		
JD 310 Backhoe with operator		
lackhoe 580K with hydraulic jackhammer & operator		
Jump truck & driver		
acuum trailer only (no operator) Velding rig with welder & helper		
verding ng with welder & nelper Superintendent		
oreman		
Velder Foreman		
Velder/Journeyman		
OA Welder		
user		
Velder Helper		
Operator aborer		
Overtime Rates		
oreman		
Velder Foreman		
Velder/Journeyman		
OA Welder		
user		
Velder Helper		
Operator		

3 Person crew per diem per hour Crew per diem per person per day	R	EDACT
Other:		
Alsc Expense		
Did Table Control of the		
Sub-Total: Contractor Labor Enter Correct	Sales Tax:	
TOTAL: CONTRACTOR LABOR		
rench volume calculator:	Length (ft):	Width (ft
Concrete/blacktop tonnage calculator:	Length (ft):	Width (ft
CNGC LABOR		
CNGC Travel Time (to and from project)		4500
Metering & Electronic Inspector A Control Equipment Mechanic		Hours
Distribution Clerk A		Hours
Combination Welder Service Line Welder		Hours Hours
Backhoe Operator		Hours
Itility A		Hours
aborer		Hours
District 3 Man Crew (Comb Welder, Operator, Utillity)		Hours
District 3 Man Crew + Control Equipment Mechanic		Hours
Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utillity)		Hours
Overtime Rate: District 3 Man Crew + Control Equipment Mechanic Sub-Total: CNGC Travel Time		Hours
CNGC Company Labor (inspection and miscellaneous record keeping/doc	cumentation).	
Metering & Electronic Inspector A Control Equipment Mechanic		Hours Hours
Distribution Clerk A		Hours
Combination Welder		Hours
Service Line Welder		Hours
Backhoe Operator Jillity A		Hours Hours
aborer		Hours
District 3 Man Crew (Comb Welder, Operator, Utillity)		Hours
District 3 Man Crew + Control Equipment Mechanic		Hours
Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utillity)		Hours
Overtime Rate: District 3 Man Crew + Control Equipment Mechanic Sub-Total: CNGC Company Labor		Hours
TOTAL: CNGC LABOR		
EQUIPMENT		
CNGC Vehicles (per mile rate)		in the
Compact Car Compact Pickup		Miles
Mid-Size SUV		Miles
Compact Van		Miles
Full Size SUV I/2, 3/4 & 1 Ton Van		Miles
/2 Ton Pickup		Miles
3/4 Ton Pickup		Miles
Ton Pickup		Miles
Frucks 14001-19500 GVWR Frucks 19501-32999 GVWR		Miles Miles
Trucks 33000-59999 GVWR		Miles
Fractor Trailer all GVW		Miles
CNGC Equipment (per hour rate) French Plow Combo 35-100 hp		Hours
Skid-Steer Loader		Hours
Fractor w/Backhoe-Front End Loader		Hours
Air Compressors Nelders (Gas Operated)		Hours Hours
Sub-Total: CNGC Equipment		
Rental Equipment (inquire locally for unit rate)		144-215
Water Truck Caterpillar 320 Track Hoe with 42" Bucket		Week
Caterpillar 314 Track Hoe with 36" Bucket		Week
Caterpillar How Pack Caterpillar D5G Dozer		Week
Delivery Charge		Total
Sub-Total: Rented Equipment		
TOTAL: EQUIPMENT		
OTHER		
Travel, Food and Lodging Expenses Gasoline		Gallons
Hotel and Meals (out of town labor)		Days
Meals (in town labor)		Days
Miscellaneous expenses (OT) Permits		Each Each
Survey and Engineering Expense		
	-	
Sub Totals Other		
Sub-Total: Other		