

PROJECT DETAILS

ESTIMATOR:	
DISTRICT:	
CITY:	
DATE:	

Current ES&GA Rate:

DESCRIPTION:	PROVIDE GAS SERVICE TO CREER DUPLEX PROJECT IN WEST RICHLAND EAST OF KEENE ROAD PHASE 6/7 EXPANSION EAST OF KEENE RD
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ESTIMATED IN SERVICE DATE: 6/1/20

CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Costs for feasibility worksheets and PowerPlan	CNGC Corporate Overhead	Total estimated cost for project authorization
			Total Direct Cost		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					
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		Total Estimated Cost Per Foot:		
Reimbursable Projects	Enter FIT		Total Cost For Reimbursement:		

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

General Notes:

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

CASCADE NATURAL GAS CORPORATION

2" MAIN COST ESTIMATE

REDACTED

EXHIBIT A1

Item

Quantity

Unit Cost

Total

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 Kil 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

Unit Cost

Total

Contractor Bid

Enter Bid Price:

\$

-

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 Installation

- 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 Missile/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 ft)
- Blacktop Disposal, (ton)

Concrete

Concrete SawCut, per inch thickness per foot (ft* 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
 Concrete Remove, per additional depth in inches over 4" per square footage (in*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)
 Concrete Disposal, per ton

Depth (in): Length (ft)

REDACTED

EXHIBIT A1

30
 Depth (in): Area (sq ft)

4
 Depth (in): Area (sq ft)

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)
 Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)
 Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)
 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
 Street Plates 7X12 daily per plate
 Install barricade or guard post, lump sum
 Flagging that requires a traffic plan, per hour (hr)
 Service Drill - 2" & smaller - 100' minimum, 200' maximum

Depth (in): Length (ft)

Depth (in): Length (ft)

Plates Days

Plates Days

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:

REDACTED

EXHIBIT A1

TOTAL: CONTRACTOR LABOR

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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)
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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)
Overtime Rate: District 3 Man Crew + Control Equipment Mechanic

Sub-Total: CNGC Company Labor

Contingency

TOTAL: CNGC LABOR

\$ - \$ -

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
- 1 Ton Pickup
- Trucks 14001-19500 GVWR
- Trucks 19501-32999 GVWR
- Trucks 33000-59999 GVWR
- Tractor 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

\$ -

Contingency

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

Contingency

TOTAL: OTHER

\$ - \$ -

PROJECT DETAILS

ESTIMATOR:	
DISTRICT:	
CITY:	
DATE:	

Current ES&GA Rate:

DESCRIPTION:
Britt 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:

CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Costs for feasibility worksheets and PowerPlan	CNGC Corporate Overhead	Total estimated cost for project authorization
			Total Direct Cost		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	\$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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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 feet		Total Estimated Cost Per Foot:		
Reimbursable Projects	Enter FIT		Total Cost For Reimbursement:		

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

General Notes:

PRELIMINARY ESTIMATE PENDING FINAL SITE LAYOUT APPROVAL BY CITY

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

CASCADE NATURAL GAS CORPORATION

4" MAIN COST ESTIMATE

REDACTED

EXHIBIT A2

Item

Quantity

Unit Cost

Total

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-780
- 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

Contractor Bid

Enter Bid Price:

\$

-

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 Installation

- 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 Mistle/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 (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 ft)
- Blacktop Disposal, (ton)

Concrete

- Concrete SawCut, per inch thickness per foot (ft* in.) Depth (in): Length (ft)
- 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
 Concrete Remove, per additional depth in inches over 4" per square footage (in*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)
 Concrete Disposal, per ton

REDACTED

EXHIBIT A2

Depth (in): Area (sq ft)

Depth (in): Area (sq ft)

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)
 Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)
 Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)
 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
 Street Plates 7X12 daily per plate
 Install barricade or guard post, lump sum
 Flagging that requires a traffic plan, per hour (hr)
 Service Drill - 2" & smaller - 100' minimum, 200' maximum

Depth (in): Length (ft)

Depth (in): Length (ft)

Plates: Days

Plates: Days

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:

TOTAL: CONTRACTOR LABOR

Contingency

REDACTED

EXHIBIT A2

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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)

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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)

Overtime Rate: District 3 Man Crew + Control Equipment Mechanic

Sub-Total: CNGC Company Labor

\$ -

TOTAL: CNGC LABOR

Contingency

\$ - \$ -

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
- 1 Ton Pickup
- Trucks 14001-19500 GVWR
- Trucks 19501-32999 GVWR
- Trucks 33000-59999 GVWR
- Tractor 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

Contingency

\$ - \$ -

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

PROJECT DETAILS

ESTIMATOR:	
DISTRICT:	
CITY:	
DATE:	

Current ES&GA Rate:

DESCRIPTION:
Provide Mains for AHO 120 Apartment Complex North of Keene Rd Phase 6 Expansion in West Richland

ESTIMATED IN SERVICE DATE:

CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Costs for feasibility worksheets and PowerPlan	CNGC Corporate Overhead	Total estimated cost for project authorization
			Total Direct Cost		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					
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	450 feet		Total Estimated Cost Per Foot:		
Reimbursable Projects	Enter FIT		Total Cost For Reimbursement:		

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

General Notes:

--

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

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 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 fool (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 ft)
- Blacktop Disposal, (ton)

Concrete

Concrete SawCut, per inch thickness per foot (ft* 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
 Concrete Remove, per additional depth in inches over 4" per square footage (in*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)
 Concrete Disposal, per ton

Depth (in): Length (ft)

REDACTED

EXHIBIT A3

30
 Depth (in): Area (sq ft)

4
 Depth (in): Area (sq ft)

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)
 Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)
 Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)
 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
 Street Plates 7X12 daily per plate
 Install barricade or guard post, lump sum
 Flagging that requires a traffic plan, per hour (hr)
 Service Drill - 2' & smaller - 100' minimum, 200' maximum

Depth (in): Length (ft)

Depth (in): Length (ft)

Plates Days
 Plates Days

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:

REDACTED

Contingency

EXHIBIT A3

TOTAL: CONTRACTOR LABOR

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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)

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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)

Overtime Rate: District 3 Man Crew + Control Equipment Mechanic

Sub-Total: CNGC Company Labor

Contingency

TOTAL: CNGC LABOR

\$ - \$ -

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
- 1 Ton Pickup
- Trucks 14001-19500 GVWR
- Trucks 19501-32999 GVWR
- Trucks 33000-59999 GVWR
- Tractor 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

PROJECT DETAILS

ESTIMATOR:	
DISTRICT:	
CITY:	
DATE:	

Current ES&GA Rate:

DESCRIPTION:
AHO APARTMENTS 106 UNIT WEST RICHLAND KEENE RD PHASE 7 EXTENSION AND RUPERT

ESTIMATED IN SERVICE DATE:

CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Costs for feasibility worksheets and PowerPlan	CNGC Corporate Overhead	Total estimated cost for project authorization
			Total Direct Cost		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					
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		Total Estimated Cost Per Foot:		
Reimbursable Projects	Enter FIT		Total Cost For Reimbursement:		

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

General Notes:

--

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

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 fittings

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 Installation

- 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 Missile/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)	<input style="width: 80%;" type="text"/>	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)	<input style="width: 80%;" type="text"/>	Area (sq ft)
Blacktop Disposal, (ton)			

Concrete

Concrete SawCut, per inch thickness per foot (ft* 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
 Concrete Remove, per additional depth in inches over 4" per square footage (in*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)
 Concrete Disposal, per ton

Depth (in): Length (ft)

REDACTED

EXHIBIT A4

30
 Depth (in): Area (sq ft)

4
 Depth (in): Area (sq ft)

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)
 Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)
 Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)
 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
 Street Plates 7X12 daily per plate
 Install barricade or guard post, lump sum
 Flagging that requires a traffic plan, per hour (hr)
 Service Drill - 2" & smaller - 100' minimum, 200' maximum

Depth (in): Length (ft)

Depth (in): Length (ft)

Plates Days
 Plates Days

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:

REDACTED

Contingency

EXHIBIT A4

TOTAL: CONTRACTOR LABOR

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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

- Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)
- 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, Utility)
- District 3 Man Crew + Control Equipment Mechanic

- Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)
- Overtime Rate: District 3 Man Crew + Control Equipment Mechanic

Sub-Total: CNGC Company Labor

TOTAL: CNGC LABOR

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
- 1 Ton Pickup
- Trucks 14001-19500 GVWR
- Trucks 19501-32999 GVWR
- Trucks 33000-59999 GVWR
- Tractor 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

PROJECT DETAILS

ESTIMATOR:	
DISTRICT:	
CITY:	
DATE:	

Current ES&GA Rate:

DESCRIPTION:
Heights at Red Mountain, New Residential Home Development in West Richland, WA 99.5 Acres for New Single Family residences, and Multi Family Residence.

ESTIMATED IN SERVICE DATE:

CNGC Cost Summary	Subtotal Direct Cost	Contingency Cost	Costs for feasibility worksheets and PowerPlan	CNGC Corporate Overhead	Total estimated cost for project authorization
			Total Direct Cost		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					
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					
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	\$0.00
4" Contractor Labor					
6" Contractor Labor					
CNGC Facility Costs					
TOTAL PROJECT COST					
Total Pipe Footage	14,000 feet		Total Estimated Cost Per Foot:		
Reimbursable Projects	Enter FIT		Total Cost For Reimbursement:		

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

General Notes:

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

CASCADE NATURAL GAS CORPORATION

4" MAIN GAS ESTIMATE

REDACTED

EXHIBIT A5

Unit Cost

Total

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 Parts

Sub-Total: Materials

TOTAL: Materials

CONTRACTOR LABOR

Item

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 Installation

- 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 Missile/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 (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 ft)
- Blacktop Disposal, (ton)

Concrete

- Concrete SawCut, per inch thickness per foot (ft* in.) Depth (in): Length (ft)
- 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
 Concrete Remove, per additional depth in inches over 4" per square footage (in*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)
 Concrete Disposal, per ton

REDACTED

EXHIBIT A5

Depth (in): Area (sq ft)

Depth (in): Area (sq ft)

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)
 Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)
 Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)
 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
 Street Plates 7X12 daily per plate
 Install barricade or guard post, lump sum
 Flagging that requires a traffic plan, per hour (hr)
 Service Drill - 2" & smaller - 100' minimum, 200' maximum

Depth (in): Length (ft)

Depth (in): Length (ft)

Plates Days

Plates Days

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:

TOTAL: CONTRACTOR LABOR

REDACTED

EXHIBIT A5

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, Utility)

District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)

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, Utility)

District 3 Man Crew + Control Equipment Mechanic

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)

Overtime Rate: District 3 Man Crew + Control Equipment Mechanic

Sub-Total: CNGC Company Labor

TOTAL: CNGC LABOR

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

1 Ton Pickup

Trucks 14001-19500 GVWR

Trucks 19501-32999 GVWR

Trucks 33000-59999 GVWR

Tractor 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

CASCADE NATURAL GAS CORPORATION

6" MAIN COST ESTIMATE

REDACTED

Unit Cost

Total

EXHIBIT A5

Item

MATERIALS

- 6" MDPE Pipe Part#: PPE-660
- 6" Xlru 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 Ell Part#: PEL-660

Misc Parts and Fittings
Coupler

Sub-Total: Materials

TOTAL: Materials

CONTRACTOR LABOR

Contractor Bid

Mobilization

- 6" PE Mobilization OT
- 6" PE Mobilization Dig
- 6" PE Mobilization Replace

Pipe Installation

- 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 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)
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- 6" 90's, Tees, Etc (Each)
- 6" Steel to PE Transition
- 6" PE Cut & Cap (Each)
- 6" Steel Cut & Cap

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- 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 (in³/sq ft) Depth (in) Area (sq ft)
- Blacktop Disposal, (ton)

Concrete

- Concrete SawCut, per inch thickness per foot (ft* 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
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- 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)
- 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)
- Concrete Disposal, per ton

Depth (in): Length (ft)

REDACTED

EXHIBIT A5

Depth (in): Area (sq ft)

Depth (in): Area (sq ft)

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)
- Topsail (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)
- Jackhammer, hyd. Backhoe 30" Deep, per foot (ft)
- Jackhammer, hyd. Backhoe, depth > 30", per 12" incr. (enter total addit. depth over 30" in inches)
- 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
- Street Plates 7X12 daily per plate
- Install barricade or guard post, lump sum
- Flagging that requires a traffic plan, per hour (hr)
- Service Drill - 2" & smaller - 100' minimum, 200' maximum

Depth (in): Length (ft)

Depth (in): Length (ft)

Plates Days

Plates Days

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)
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- 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

REDACTED

EXHIBIT A5

Other:

Misc Expense

Sub-Total: Contractor Labor

Enter Correct Sales Tax:

TOTAL: CONTRACTOR LABOR

Trench volume calculator: Length (ft): Width (ft)

Concrete/blacktop tonnage calculator: Length (ft): Width (ft)

CNGC LABOR

CNGC Travel Time (to and from project)

Metering & Electronic Inspector A	Hours
Control Equipment Mechanic	Hours
Distribution Clerk A	Hours
Combination Welder	Hours
Service Line Welder	Hours
Backhoe Operator	Hours
Utility A	Hours
Laborer	Hours

District 3 Man Crew (Comb Welder, Operator, Utility)	Hours
District 3 Man Crew + Control Equipment Mechanic	Hours

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)	Hours
Overtime Rate: District 3 Man Crew + Control Equipment Mechanic	Hours

Sub-Total: CNGC Travel Time

CNGC Company Labor (inspection and miscellaneous record keeping/documentation).

Metering & Electronic Inspector A	Hours
Control Equipment Mechanic	Hours
Distribution Clerk A	Hours
Combination Welder	Hours
Service Line Welder	Hours
Backhoe Operator	Hours
Utility A	Hours
Laborer	Hours

District 3 Man Crew (Comb Welder, Operator, Utility)	Hours
District 3 Man Crew + Control Equipment Mechanic	Hours

Overtime Rate: District 3 Man Crew (Comb Welder, Operator, Utility)	Hours
Overtime Rate: District 3 Man Crew + Control Equipment Mechanic	Hours

Sub-Total: CNGC Company Labor

TOTAL: CNGC LABOR

EQUIPMENT

CNGC Vehicles (per mile rate)

Compact Car	Miles
Compact Pickup	Miles
Mid-Size SUV	Miles
Compact Van	Miles
Full Size SUV	Miles
1/2, 3/4 & 1 Ton Van	Miles
1/2 Ton Pickup	Miles
3/4 Ton Pickup	Miles
1 Ton Pickup	Miles
Trucks 14001-19500 GVWR	Miles
Trucks 19501-32999 GVWR	Miles
Trucks 33000-59999 GVWR	Miles
Tractor Trailer all GVW	Miles

CNGC Equipment (per hour rate)

Trench Plow Combo 35-100 hp	Hours
Skid-Steer Loader	Hours
Tractor w/Backhoe-Front End Loader	Hours
Air Compressors	Hours
Welders (Gas Operated)	Hours

Sub-Total: CNGC Equipment

Rental Equipment (inquire locally for unit rate)

Water Truck	Week
Caterpillar 320 Track Hoe with 42" Bucket	Week
Caterpillar 314 Track Hoe with 36" Bucket	Week
Caterpillar How Pack	Week
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)	Each
Permits	Each

Survey and Engineering Expense

Sub-Total: Other

TOTAL: OTHER