

OFFICE OF THE CITY ATTORNEY
CHARLES PARKIN, City Attorney
333 West Ocean Boulevard, 11th Floor
Lona Beach, CA 90802-4664

1 FIRST AMENDMENT TO CONTRACT NO. 33970
2 **33970**

3 THIS FIRST AMENDMENT TO CONTRACT NO. 33970 is made and
4 entered, in duplicate, as of August 24, 2017 for reference purposes only, pursuant to a
5 minute order adopted by the City Council of the City of Long Beach at its meeting held on
6 August 11, 2015, by and between ARB, INC., a California corporation ("Contractor"),
7 whose address is 26000 Commercentre Drive, Lake Forest, California 92630, and the CITY
8 OF LONG BEACH, a municipal corporation ("City").

9 WHEREAS, City and Contractor (the "Parties") entered into Contract No.
10 33970 pursuant to Specifications No. G-331 for the Annual Contract for Steel Gas Pipeline
11 Construction in the City of Long Beach; and

12 WHEREAS, the Parties wish to exercise their first option to extend the term
13 of the Contract and attach an updated price list;

14 NOW, THEREFORE, in consideration of the mutual terms and conditions
15 herein contained, the Parties agree as follows:

16 1. Section 4.A of Contract No. 33970 is hereby amended to read as
17 follows:

18 "A. The term of this Contract shall commence at midnight on September
19 1, 2015, and shall terminate at 11:59 p.m. on August 31, 2018, unless sooner terminated
20 as provided in this Contract, or unless the services or the Project is completed sooner. The
21 parties have the option to renew this Contract for one (1) additional one-year term."

22 2. The Rates/Unit Prices in Exhibit "A" to the Agreement are hereby
23 amended in accordance with Exhibit "A-1", attached hereto and incorporated by this
24 reference.

25 3. Except as expressly modified herein, all of the terms and conditions
26 contained in Contract No. 33970 are ratified and confirmed and shall remain in full force
27 and effect.

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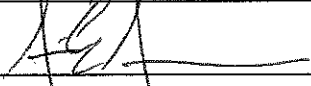
IN WITNESS WHEREOF, the parties have caused this document to be duly executed with all formalities required by law as of the date first stated above.

ARB, INC., a California corporation

September 25, 2017

By 
Name Gregory S. Dahl
Title Senior Vice President

September 25, 2017

By 
Name Scott Summers
Title President

"Contractor"

CITY OF LONG BEACH, a municipal corporation

Oct 9, 2017

By  EXECUTED PURSUANT
City Manager TO SECTION 301 OF
"City" Tom Modica THE CITY CHARTER
Assistant City Manager

This First Amendment to Contract No. 33970 is approved as to form on
September 28, 2017.

CHARLES PARKIN, City Attorney

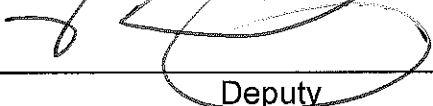
By 
Deputy

EXHIBIT “A-1”

Method of Installation - Open Trench Pavement Asphalt - x ≤ 5" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	402.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$420.00	4.48%
2	8" (\$ / lin. Ft.)	301'-1000'	228.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$238.25	4.50%
3	8" (\$ / lin. Ft.)	1001' - 3000'	159.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$166.00	4.40%
4	8" (\$ / lin. Ft.)	3000' - +	153.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$160.00	4.58%
5	12" (\$ / lin. Ft.)	1' - 300'	447.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$467.00	4.47%
6	12" (\$ / lin. Ft.)	301'-1000'	279.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$292.00	4.66%
7	12" (\$ / lin. Ft.)	1001' - 3000'	220.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$230.00	4.55%
8	12" (\$ / lin. Ft.)	3000' - +	204.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$213.25	4.53%
9	16" (\$ / lin. Ft.)	1' - 300'	842.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$880.00	4.51%
10	16" (\$ / lin. Ft.)	301'-1000'	410.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$428.50	4.51%
11	16" (\$ / lin. Ft.)	1001' - 3000'	303.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$316.50	4.46%
12	16" (\$ / lin. Ft.)	3000' - +	278.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$290.50	4.50%

STEEL MAIN LINE INSTALLATION						
Method of Installation - Open Trench Pavement Asphalt - 5" < x ≤ 7" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	408.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$426.50	4.53%
2	8" (\$ / lin. Ft.)	301'-1000'	231.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$241.50	4.55%
3	8" (\$ / lin. Ft.)	1001' - 3000'	161.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$168.25	4.50%
4	8" (\$ / lin. Ft.)	3000' - +	155.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$162.00	4.52%
5	12" (\$ / lin. Ft.)	1' - 300'	454.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$474.50	4.52%
6	12" (\$ / lin. Ft.)	301'-1000'	283.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$295.75	4.51%
7	12" (\$ / lin. Ft.)	1001' - 3000'	223.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$233.00	4.48%
8	12" (\$ / lin. Ft.)	3000' - +	207.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$216.50	4.59%
9	16" (\$ / lin. Ft.)	1' - 300'	855.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$893.50	4.50%
10	16" (\$ / lin. Ft.)	301'-1000'	416.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$434.75	4.51%
11	16" (\$ / lin. Ft.)	1001' - 3000'	308.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$322.00	4.55%
12	16" (\$ / lin. Ft.)	3000' - +	282.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$295.00	4.61%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe Installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates and assume x ≥ 30' pipe joints
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineator, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Include Labor for gas-up operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Steel pipe to be installed per Specification G2285
- Fitting Installation for Gas Handling see PC Fittings
- All arterial street crossings shall be measured from property line to property line

STEEL PIPE INSTALLATION						
Method of Installation - Open Trench Pavement Asphalt - 7" < x ≤ 9" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	414.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$433.00	4.59%
2	8" (\$ / lin. Ft.)	301'-1000'	234.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$244.50	4.49%
3	8" (\$ / lin. Ft.)	1001' - 3000'	163.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$170.50	4.60%
4	8" (\$ / lin. Ft.)	3000' - +	157.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$164.00	4.46%
5	12" (\$ / lin. Ft.)	1' - 300'	461.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$481.75	4.50%
6	12" (\$ / lin. Ft.)	301'-1000'	287.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$300.00	4.53%
7	12" (\$ / lin. Ft.)	1001' - 3000'	226.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$236.00	4.42%
8	12" (\$ / lin. Ft.)	3000' - +	210.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$219.50	4.52%
9	16" (\$ / lin. Ft.)	1' - 300'	868.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$907.00	4.49%
10	16" (\$ / lin. Ft.)	301'-1000'	422.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$441.00	4.50%
11	16" (\$ / lin. Ft.)	1001' - 3000'	313.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$327.00	4.47%
12	16" (\$ / lin. Ft.)	3000' - +	286.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$299.00	4.55%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe Installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates and assume x ≥ 30' pipe joints
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineator, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Include Labor for gas-up operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Steel pipe to be installed per Specification G2285
- Fitting Installation for Gas Handling see PC Fittings
- All arterial street crossings shall be measured from property line to property line

STEEL MAIN INSTALLATION						
Method of Installation - Open Trench Pavement PCC - x ≤ 5" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	407.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$425.50	4.55%
2	8" (\$ / lin. Ft.)	301'-1000'	231.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$241.50	4.55%
3	8" (\$ / lin. Ft.)	1001' - 3000'	161.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$168.25	4.50%
4	8" (\$ / lin. Ft.)	3000' - +	155.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$162.00	4.52%
5	12" (\$ / lin. Ft.)	1' - 300'	451.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$471.50	4.55%
6	12" (\$ / lin. Ft.)	301'-1000'	282.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$295.00	4.61%
7	12" (\$ / lin. Ft.)	1001' - 3000'	222.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$232.00	4.50%
8	12" (\$ / lin. Ft.)	3000' - +	206.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$215.25	4.49%
9	16" (\$ / lin. Ft.)	1' - 300'	850.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$888.25	4.50%
10	16" (\$ / lin. Ft.)	301'-1000'	414.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$433.00	4.59%
11	16" (\$ / lin. Ft.)	1001' - 3000'	306.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$320.00	4.58%
12	16" (\$ / lin. Ft.)	3000' - +	281.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$294.00	4.63%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates and assume x ≥ 30' pipe joints
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineator, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Include Labor for gas-up operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Steel pipe to be installed per Specification G228S
- Fitting Installation for Gas Handling see PC Fittings
- All arterial street crossings shall be measured from property line to property line

Method of Installation - Open Trench Pavement PCC - 5" < x ≤ 7" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	415.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$434.00	4.58%
2	8" (\$ / lin. Ft.)	301'-1000'	236.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$247.00	4.66%
3	8" (\$ / lin. Ft.)	1001' - 3000'	164.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$171.50	4.57%
4	8" (\$ / lin. Ft.)	3000' - +	158.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$165.00	4.43%
5	12" (\$ / lin. Ft.)	1' - 300'	460.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$481.00	4.57%
6	12" (\$ / lin. Ft.)	301'-1000'	288.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$301.00	4.51%
7	12" (\$ / lin. Ft.)	1001' - 3000'	226.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$236.00	4.42%
8	12" (\$ / lin. Ft.)	3000' - +	210.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$219.50	4.52%
9	16" (\$ / lin. Ft.)	1' - 300'	867.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$906.00	4.50%
10	16" (\$ / lin. Ft.)	301'-1000'	422.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$441.00	4.50%
11	16" (\$ / lin. Ft.)	1001' - 3000'	312.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$326.00	4.49%
12	16" (\$ / lin. Ft.)	3000' - +	287.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$300.00	4.53%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe installation includes saw cutting, pavement and soil excavation and haul up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates and assume x ≥ 30' pipe joints
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineator, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Include Labor for gas-up operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Steel pipe to be installed per Specification G228S
- Fitting Installation for Gas Handling see PC Fittings
- All arterial street crossings shall be measured from property line to property line

STEEL MAIN INSTALLATION						
Method of Installation - Open Trench Pavement PCC - 7" < x ≤ 9"						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	423.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$442.00	4.49%
2	8" (\$ / lin. Ft.)	301'-1000'	241.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$252.00	4.56%
3	8" (\$ / lin. Ft.)	1001' - 3000'	167.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$175.00	4.79%
4	8" (\$ / lin. Ft.)	3000' - +	161.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$168.25	4.50%
5	12" (\$ / lin. Ft.)	1' - 300'	469.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$490.00	4.48%
6	12" (\$ / lin. Ft.)	301'-1000'	294.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$307.25	4.51%
7	12" (\$ / lin. Ft.)	1001' - 3000'	231.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$241.50	4.55%
8	12" (\$ / lin. Ft.)	3000' - +	214.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$224.00	4.67%
9	16" (\$ / lin. Ft.)	1' - 300'	884.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$924.00	4.52%
10	16" (\$ / lin. Ft.)	301'-1000'	430.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$449.50	4.53%
11	16" (\$ / lin. Ft.)	1001' - 3000'	318.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$332.50	4.56%
12	16" (\$ / lin. Ft.)	3000' - +	293.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$306.25	4.52%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe Installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates and assume x ≥ 30' pipe joints
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineator, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
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- All arterial street crossings shall be measured from property line to property line

STEEL MAIN INSTALLATION - ARTERIAL STREET CROSSING

Method of Installation - Open Trench
Pavement PCC - 7" < x ≤ 9"

No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 120'	830.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$868.00	4.58%
2	12" (\$ / lin. Ft.)	1' - 120'	1,022.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$1,068.00	4.50%
3	16" (\$ / lin. Ft.)	1' - 120'	1,618.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$1,691.00	4.51%

STEEL MAIN INSTALLATION - ARTERIAL STREET CROSSING

Method of Installation - Open Trench
Pavement Asphalt PCC - 7" < x ≤ 9"

No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 120'	814.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$851.00	4.55%
2	12" (\$ / lin. Ft.)	1' - 120'	1,002.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$1,047.00	4.49%
3	16" (\$ / lin. Ft.)	1' - 120'	1,586.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$1,657.00	4.48%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe Installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates and assume x ≥ 30' pipe joints
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineator, arrow boards, etc...)
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- Steel pipe to be installed per Specification G228S
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- All arterial street crossings shall be measured from property line to property line

STEEL MAIN INSTALLATION

Pavement Asphalt - x ≤ 5" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	506.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$529.00	4.55%
2	8" (\$ / lin. Ft.)	301' - 1000'	208.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$217.25	4.45%
3	8" (\$ / lin. Ft.)	1001' - 3000'	163.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$170.25	4.45%
4	8" (\$ / lin. Ft.)	3000' - +	141.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$147.50	4.61%
5	12" (\$ / lin. Ft.)	1' - 300'	626.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$654.00	4.47%
6	12" (\$ / lin. Ft.)	301' - 1000'	272.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$284.00	4.41%
7	12" (\$ / lin. Ft.)	1001' - 3000'	215.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$225.00	4.65%
8	12" (\$ / lin. Ft.)	3000' - +	189.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$198.00	4.76%
9	16" (\$ / lin. Ft.)	1' - 300'	1,008.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$1,053.00	4.46%
10	16" (\$ / lin. Ft.)	301' - 1000'	414.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$433.00	4.59%
11	16" (\$ / lin. Ft.)	1001' - 3000'	345.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$361.00	4.64%
12	16" (\$ / lin. Ft.)	3000' - +	313.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$327.00	4.47%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe Installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates, appropriate size pipe rollers and assume pipe joints ≥ 30'
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hours)
- Steel pipe installed per Specification G2285
- Assume 1 full pipestring
- Assume 11° exit and entrance angle
- Contractor shall provide the following
 - 1) drill rig
 - 2) vacuum truck
 - 3) support equipment
 - 4) all pulling heads for pipe
 - 5) haul-off and disposal of excess drilling fluids

STEEL MAIN INSTALLATION

Pavement Asphalt - 5" < x ≤ 7" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	511.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$534.00	4.50%
2	8" (\$ / lin. Ft.)	301' - 1000'	211.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$220.50	4.50%
3	8" (\$ / lin. Ft.)	1001' - 3000'	165.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$172.50	4.55%
4	8" (\$ / lin. Ft.)	3000' - +	143.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$149.50	4.55%
5	12" (\$ / lin. Ft.)	1' - 300'	632.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$660.00	4.43%
6	12" (\$ / lin. Ft.)	301' - 1000'	276.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$288.25	4.44%
7	12" (\$ / lin. Ft.)	1001' - 3000'	218.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$228.00	4.59%
8	12" (\$ / lin. Ft.)	3000' - +	191.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$199.50	4.45%
9	16" (\$ / lin. Ft.)	1' - 300'	1,017.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$1,063.00	4.52%
10	16" (\$ / lin. Ft.)	301' - 1000'	419.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$438.00	4.53%
11	16" (\$ / lin. Ft.)	1001' - 3000'	350.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$366.00	4.57%
12	16" (\$ / lin. Ft.)	3000' - +	317.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$331.25	4.50%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe Installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates, appropriate size pipe rollers and assume pipe joints ≥ 30'
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hours)
- Steel pipe installed per Specification G228S
- Assume 1 full pipestring
- Assume 11° exit and entrance angle
- Contractor shall provide the following
 - 1) drill rig
 - 2) vacuum truck
 - 3) support equipment
 - 4) all pulling heads for pipe
 - 5) haul-off and disposal of excess drilling fluids

STEEL MAIN INSTALLATION

Method of Installation - HDD
 Pavement Asphalt - 7" < x ≤ 9" thick

No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc.
1	8" (\$ / lin. Ft.)	1' - 300'	516.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$539.00	4.46%
2	8" (\$ / lin. Ft.)	301' - 1000'	214.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$223.50	4.44%
3	8" (\$ / lin. Ft.)	1001' - 3000'	167.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$174.50	4.49%
4	8" (\$ / lin. Ft.)	3000' - +	145.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$151.50	4.48%
5	12" (\$ / lin. Ft.)	1' - 300'	638.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$666.75	4.51%
6	12" (\$ / lin. Ft.)	301' - 1000'	280.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$292.50	4.46%
7	12" (\$ / lin. Ft.)	1001' - 3000'	221.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$231.00	4.52%
8	12" (\$ / lin. Ft.)	3000' - +	193.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$202.00	4.66%
9	16" (\$ / lin. Ft.)	1' - 300'	1,026.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$1,072.00	4.48%
10	16" (\$ / lin. Ft.)	301' - 1000'	424.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$443.00	4.48%
11	16" (\$ / lin. Ft.)	1001' - 3000'	355.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$371.00	4.51%
12	16" (\$ / lin. Ft.)	3000' - +	321.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$335.50	4.52%

STEEL MAIN INSTALLATION

Method of Installation - HDD

Pavement PCC - x ≤ 5" thick

No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc.
1	8" (\$ / lin. Ft.)	1' - 300'	514.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$537.00	4.47%
2	8" (\$ / lin. Ft.)	301' - 1000'	212.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$221.50	4.48%
3	8" (\$ / lin. Ft.)	1001' - 3000'	166.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$173.50	4.52%
4	8" (\$ / lin. Ft.)	3000' - +	144.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$150.50	4.51%
5	12" (\$ / lin. Ft.)	1' - 300'	634.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$662.50	4.50%
6	12" (\$ / lin. Ft.)	301' - 1000'	277.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$289.50	4.51%
7	12" (\$ / lin. Ft.)	1001' - 3000'	219.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$229.00	4.57%
8	12" (\$ / lin. Ft.)	3000' - +	192.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$200.50	4.43%
9	16" (\$ / lin. Ft.)	1' - 300'	1,022.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$1,068.00	4.50%
10	16" (\$ / lin. Ft.)	301' - 1000'	421.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$440.00	4.51%
11	16" (\$ / lin. Ft.)	1001' - 3000'	351.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$367.00	4.56%
12	16" (\$ / lin. Ft.)	3000' - +	318.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$332.25	4.48%

STEEL MAIN INSTALLATION						
Method of Installation - HDD						
Pavement PCC - 5" < x ≤ 7" thick						
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc.
1	8" (\$ / lin. Ft.)	1' - 300'	519.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$542.50	4.53%
2	8" (\$ / lin. Ft.)	301' - 1000'	215.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$224.75	4.53%
3	8" (\$ / lin. Ft.)	1001' - 3000'	168.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$175.50	4.46%
4	8" (\$ / lin. Ft.)	3000' - +	146.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$152.50	4.45%
5	12" (\$ / lin. Ft.)	1' - 300'	640.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$669.00	4.53%
6	12" (\$ / lin. Ft.)	301' - 1000'	281.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$294.00	4.63%
7	12" (\$ / lin. Ft.)	1001' - 3000'	222.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$232.00	4.50%
8	12" (\$ / lin. Ft.)	3000' - +	195.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$204.00	4.62%
9	16" (\$ / lin. Ft.)	1' - 300'	1,031.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$1,077.00	4.46%
10	16" (\$ / lin. Ft.)	301' - 1000'	427.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$446.25	4.51%
11	16" (\$ / lin. Ft.)	1001' - 3000'	356.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$372.00	4.49%
12	16" (\$ / lin. Ft.)	3000' - +	322.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$336.50	4.50%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe Installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates, appropriate size pipe rollers
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hours)
- Steel pipe installed per Specification G228S
- Assume 1 full pipestring
- Assume 11° exit and entrance angle
- Contractor shall provide the following
 - 1) drill rig
 - 2) vacuum truck
 - 3) support equipment
 - 4) all pulling heads for pipe
 - 5) haul-off and disposal of excess drilling fluids

STEEL MAIN INSTALLATION

Method of installation - HDD

Pavement PCC - 7" < x ≤ 9"

No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size	New Price	% Inc
1	8" (\$ / lin. Ft.)	1' - 300'	524.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$548.00	4.58%
2	8" (\$ / lin. Ft.)	301' - 1000'	218.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles	\$228.00	4.59%
3	8" (\$ / lin. Ft.)	1001' - 3000'	170.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$178.00	4.71%
4	8" (\$ / lin. Ft.)	3000' - +	148.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$155.00	4.73%
5	12" (\$ / lin. Ft.)	1' - 300'	646.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$675.00	4.49%
6	12" (\$ / lin. Ft.)	301' - 1000'	285.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$298.00	4.56%
7	12" (\$ / lin. Ft.)	1001' - 3000'	225.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$235.00	4.44%
8	12" (\$ / lin. Ft.)	3000' - +	198.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$207.00	4.55%
9	16" (\$ / lin. Ft.)	1' - 300'	1,040.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles	\$1,087.00	4.52%
10	16" (\$ / lin. Ft.)	301' - 1000'	433.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles	\$452.50	4.50%
11	16" (\$ / lin. Ft.)	1001' - 3000'	361.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$377.25	4.50%
12	16" (\$ / lin. Ft.)	3000' - +	326.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles	\$341.00	4.60%

Note:

- Light to Medium soil, excavation using backhoe
- Pipe installation includes saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Include steel (non-skid) trench plates, appropriate size pipe rollers
- Assume random double pipe joints
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95% and shade pipe 12" above
- Bell holes, main tie-ins, main tie-overs
- Pressure testing and gas handling operations
- Clean up and all other work required for gas pipe installation
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hours)
- Steel pipe installed per Specification G228S
- Assume 1 full pipestring
- Assume 11° exit and entrance angle
- Contractor shall provide the following
 - 1) drill rig
 - 2) vacuum truck
 - 3) support equipment
 - 4) all pulling heads for pipe
 - 5) haul-off and disposal of excess drilling fluids

STEEL MAIN ABANDONMENT					
Pavement Asphalt - x ≤ 5" thick					
No.	Pipe Size	Linear Foot	Unit Price	New Price	% Increase
1	4" (\$ / lin. Ft.)	1' - 300'	24.80	\$25.95	4.64%
2	4" (\$ / lin. Ft.)	301' - 1000'	9.35	\$9.80	4.81%
3	4" (\$ / lin. Ft.)	1001' - 3000'	6.80	\$7.10	4.41%
4	4" (\$ / lin. Ft.)	3001' - +	4.30	\$4.50	4.65%
5	6" (\$ / lin. Ft.)	1' - 300'	145.75	\$152.30	4.49%
6	6" (\$ / lin. Ft.)	301' - 1000'	58.50	\$61.15	4.53%
7	6" (\$ / lin. Ft.)	1001' - 3000'	41.70	\$43.60	4.56%
8	6" (\$ / lin. Ft.)	3001' - +	29.30	\$30.60	4.44%
9	8" (\$ / lin. Ft.)	1' - 300'	159.50	\$166.70	4.51%
10	8" (\$ / lin. Ft.)	301' - 1000'	62.70	\$65.50	4.47%
11	8" (\$ / lin. Ft.)	1001' - 3000'	43.80	\$45.75	4.45%
12	8" (\$ / lin. Ft.)	3001' - +	32.40	\$33.85	4.48%
13	10" (\$ / lin. Ft.)	1' - 300'	171.00	\$178.70	4.50%
14	10" (\$ / lin. Ft.)	301' - 1000'	70.25	\$73.40	4.48%
15	10" (\$ / lin. Ft.)	1001' - 3000'	52.10	\$54.45	4.51%
16	10" (\$ / lin. Ft.)	3001' - +	36.60	\$38.25	4.51%
17	12" (\$ / lin. Ft.)	1' - 300'	185.70	\$194.00	4.47%
18	12" (\$ / lin. Ft.)	301' - 1000'	76.30	\$79.75	4.52%
19	12" (\$ / lin. Ft.)	1001' - 3000'	55.70	\$58.20	4.49%
20	12" (\$ / lin. Ft.)	3001' - +	40.90	\$42.75	4.52%
21	14" (\$ / lin. Ft.)	1' - 300'	197.00	\$206.00	4.57%
22	14" (\$ / lin. Ft.)	301' - 1000'	80.90	\$84.55	4.51%
23	14" (\$ / lin. Ft.)	1001' - 3000'	59.40	\$62.05	4.46%
24	14" (\$ / lin. Ft.)	3001' - +	44.75	\$46.75	4.47%
25	16" (\$ / lin. Ft.)	1' - 300'	207.80	\$217.15	4.50%
26	16" (\$ / lin. Ft.)	301' - 1000'	84.30	\$88.10	4.51%
27	16" (\$ / lin. Ft.)	1001' - 3000'	63.10	\$65.95	4.52%
28	16" (\$ / lin. Ft.)	3001' - +	47.60	\$49.75	4.52%
29	18" (\$ / lin. Ft.)	1' - 300'	221.00	\$230.95	4.50%
30	18" (\$ / lin. Ft.)	301' - 1000'	90.20	\$94.25	4.49%
31	18" (\$ / lin. Ft.)	1001' - 3000'	65.50	\$68.45	4.50%
32	18" (\$ / lin. Ft.)	3001' - +	51.80	\$54.15	4.54%
33	20" (\$ / lin. Ft.)	1' - 300'	233.00	\$243.50	4.51%
34	20" (\$ / lin. Ft.)	301' - 1000'	93.50	\$97.70	4.49%
35	20" (\$ / lin. Ft.)	1001' - 3000'	69.70	\$72.85	4.52%
36	20" (\$ / lin. Ft.)	3001' - +	54.60	\$57.05	4.49%

STEEL MAIN ABANDONMENT					
Pavement Asphalt - 5" < x ≤ 7" thick					
	Pipe Size	Linear Foot	Unit Price	New Price	% Inc
1	4" (\$ / lin. Ft.)	1' - 300'	25.10	\$26.25	4.58%
2	4" (\$ / lin. Ft.)	301' - 1000'	9.55	\$10.00	4.71%
3	4" (\$ / lin. Ft.)	1001' - 3000'	6.95	\$7.25	4.32%
4	4" (\$ / lin. Ft.)	3001' - +	4.45	\$4.65	4.49%
5	6" (\$ / lin. Ft.)	1' - 300'	147.25	\$153.90	4.52%
6	6" (\$ / lin. Ft.)	301' - 1000'	59.45	\$62.15	4.54%
7	6" (\$ / lin. Ft.)	1001' - 3000'	42.40	\$44.30	4.48%
8	6" (\$ / lin. Ft.)	3001' - +	29.85	\$31.20	4.52%
9	8" (\$ / lin. Ft.)	1' - 300'	162.00	\$169.30	4.51%
10	8" (\$ / lin. Ft.)	301' - 1000'	63.85	\$66.70	4.46%
11	8" (\$ / lin. Ft.)	1001' - 3000'	44.75	\$46.75	4.47%
12	8" (\$ / lin. Ft.)	3001' - +	33.25	\$34.75	4.51%
13	10" (\$ / lin. Ft.)	1' - 300'	173.40	\$181.20	4.50%
14	10" (\$ / lin. Ft.)	301' - 1000'	71.65	\$74.85	4.47%
15	10" (\$ / lin. Ft.)	1001' - 3000'	53.15	\$55.55	4.52%
16	10" (\$ / lin. Ft.)	3001' - +	37.40	\$39.10	4.55%
17	12" (\$ / lin. Ft.)	1' - 300'	187.60	\$196.05	4.50%
18	12" (\$ / lin. Ft.)	301' - 1000'	77.75	\$81.25	4.50%
19	12" (\$ / lin. Ft.)	1001' - 3000'	56.90	\$59.45	4.48%
20	12" (\$ / lin. Ft.)	3001' - +	41.95	\$43.85	4.53%
21	14" (\$ / lin. Ft.)	1' - 300'	199.50	\$208.50	4.51%
22	14" (\$ / lin. Ft.)	301' - 1000'	82.55	\$86.25	4.48%
23	14" (\$ / lin. Ft.)	1001' - 3000'	60.60	\$63.35	4.54%
24	14" (\$ / lin. Ft.)	3001' - +	45.90	\$47.95	4.47%
25	16" (\$ / lin. Ft.)	1' - 300'	210.40	\$219.85	4.49%
26	16" (\$ / lin. Ft.)	301' - 1000'	85.90	\$89.75	4.48%
27	16" (\$ / lin. Ft.)	1001' - 3000'	64.40	\$67.30	4.50%
28	16" (\$ / lin. Ft.)	3001' - +	48.55	\$50.75	4.53%
29	18" (\$ / lin. Ft.)	1' - 300'	224.50	\$234.60	4.50%
30	18" (\$ / lin. Ft.)	301' - 1000'	92.10	\$96.25	4.51%
31	18" (\$ / lin. Ft.)	1001' - 3000'	66.90	\$69.90	4.48%
32	18" (\$ / lin. Ft.)	3001' - +	53.25	\$55.65	4.51%
33	20" (\$ / lin. Ft.)	1' - 300'	236.00	\$246.60	4.49%
34	20" (\$ / lin. Ft.)	301' - 1000'	94.95	\$99.20	4.48%
35	20" (\$ / lin. Ft.)	1001' - 3000'	71.20	\$74.40	4.49%
36	20" (\$ / lin. Ft.)	3001' - +	55.80	\$58.30	4.48%

STEEL MAIN ABANDONMENT					
Pavement Asphalt - 7" < x ≤ 9" thick					
	Pipe Size	Linear Foot	Unit Price	New Price	% Increase
1	4" (\$ / lin. Ft.)	1' - 300'	25.70	\$26.85	4.47%
2	4" (\$ / lin. Ft.)	301' - 1000'	9.80	\$10.25	4.59%
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.25	\$7.60	4.83%
4	4" (\$ / lin. Ft.)	3001' - +	4.75	\$4.95	4.21%
5	6" (\$ / lin. Ft.)	1' - 300'	149.60	\$156.35	4.51%
6	6" (\$ / lin. Ft.)	301' - 1000'	60.80	\$63.55	4.52%
7	6" (\$ / lin. Ft.)	1001' - 3000'	43.30	\$45.25	4.50%
8	6" (\$ / lin. Ft.)	3001' - +	30.75	\$32.15	4.55%
9	8" (\$ / lin. Ft.)	1' - 300'	164.20	\$171.60	4.51%
10	8" (\$ / lin. Ft.)	301' - 1000'	65.20	\$68.15	4.52%
11	8" (\$ / lin. Ft.)	1001' - 3000'	45.80	\$47.85	4.48%
12	8" (\$ / lin. Ft.)	3001' - +	34.15	\$35.70	4.54%
13	10" (\$ / lin. Ft.)	1' - 300'	176.00	\$183.90	4.49%
14	10" (\$ / lin. Ft.)	301' - 1000'	73.20	\$76.50	4.51%
15	10" (\$ / lin. Ft.)	1001' - 3000'	54.40	\$56.85	4.50%
16	10" (\$ / lin. Ft.)	3001' - +	38.30	\$40.00	4.44%
17	12" (\$ / lin. Ft.)	1' - 300'	189.90	\$198.45	4.50%
18	12" (\$ / lin. Ft.)	301' - 1000'	79.20	\$82.75	4.48%
19	12" (\$ / lin. Ft.)	1001' - 3000'	58.10	\$60.70	4.48%
20	12" (\$ / lin. Ft.)	3001' - +	42.90	\$44.85	4.55%
21	14" (\$ / lin. Ft.)	1' - 300'	202.30	\$211.40	4.50%
22	14" (\$ / lin. Ft.)	301' - 1000'	84.25	\$88.05	4.51%
23	14" (\$ / lin. Ft.)	1001' - 3000'	61.90	\$64.70	4.52%
24	14" (\$ / lin. Ft.)	3001' - +	46.95	\$49.05	4.47%
25	16" (\$ / lin. Ft.)	1' - 300'	213.20	\$222.80	4.50%
26	16" (\$ / lin. Ft.)	301' - 1000'	87.65	\$91.60	4.51%
27	16" (\$ / lin. Ft.)	1001' - 3000'	65.80	\$68.75	4.48%
28	16" (\$ / lin. Ft.)	3001' - +	49.75	\$52.00	4.52%
29	18" (\$ / lin. Ft.)	1' - 300'	227.80	\$238.05	4.50%
30	18" (\$ / lin. Ft.)	301' - 1000'	93.75	\$97.95	4.48%
31	18" (\$ / lin. Ft.)	1001' - 3000'	68.30	\$71.35	4.47%
32	18" (\$ / lin. Ft.)	3001' - +	54.60	\$57.05	4.49%
33	20" (\$ / lin. Ft.)	1' - 300'	239.20	\$249.95	4.49%
34	20" (\$ / lin. Ft.)	301' - 1000'	96.80	\$101.15	4.49%
35	20" (\$ / lin. Ft.)	1001' - 3000'	72.75	\$76.00	4.47%
36	20" (\$ / lin. Ft.)	3001' - +	56.95	\$59.50	4.48%

STEEL MAIN ABANDONMENT					
Pavement PCC - x ≤ 5" thick					
	Pipe Size	Linear Foot	Unit Price	New Price	% Inc
1	4" (\$ / lin. Ft.)	1' - 300'	25.30	\$26.45	4.55%
2	4" (\$ / lin. Ft.)	301' - 1000'	9.65	\$10.10	4.66%
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.25	\$7.60	4.83%
4	4" (\$ / lin. Ft.)	3001' - +	4.70	\$4.90	4.26%
5	6" (\$ / lin. Ft.)	1' - 300'	147.80	\$154.45	4.50%
6	6" (\$ / lin. Ft.)	301' - 1000'	59.75	\$62.45	4.52%
7	6" (\$ / lin. Ft.)	1001' - 3000'	42.70	\$44.60	4.45%
8	6" (\$ / lin. Ft.)	3001' - +	30.15	\$31.50	4.48%
9	8" (\$ / lin. Ft.)	1' - 300'	163.50	\$170.85	4.50%
10	8" (\$ / lin. Ft.)	301' - 1000'	64.70	\$67.60	4.48%
11	8" (\$ / lin. Ft.)	1001' - 3000'	45.40	\$47.45	4.52%
12	8" (\$ / lin. Ft.)	3001' - +	34.20	\$35.75	4.53%
13	10" (\$ / lin. Ft.)	1' - 300'	174.55	\$182.40	4.50%
14	10" (\$ / lin. Ft.)	301' - 1000'	72.15	\$75.40	4.50%
15	10" (\$ / lin. Ft.)	1001' - 3000'	53.90	\$56.35	4.55%
16	10" (\$ / lin. Ft.)	3001' - +	37.80	\$39.50	4.50%
17	12" (\$ / lin. Ft.)	1' - 300'	188.65	\$197.15	4.51%
18	12" (\$ / lin. Ft.)	301' - 1000'	78.40	\$81.95	4.53%
19	12" (\$ / lin. Ft.)	1001' - 3000'	57.50	\$60.10	4.52%
20	12" (\$ / lin. Ft.)	3001' - +	42.60	\$44.50	4.46%
21	14" (\$ / lin. Ft.)	1' - 300'	200.85	\$209.90	4.51%
22	14" (\$ / lin. Ft.)	301' - 1000'	83.25	\$87.00	4.50%
23	14" (\$ / lin. Ft.)	1001' - 3000'	61.40	\$64.15	4.48%
24	14" (\$ / lin. Ft.)	3001' - +	46.75	\$48.85	4.49%
25	16" (\$ / lin. Ft.)	1' - 300'	212.00	\$221.55	4.50%
26	16" (\$ / lin. Ft.)	301' - 1000'	86.70	\$90.60	4.50%
27	16" (\$ / lin. Ft.)	1001' - 3000'	65.20	\$68.15	4.52%
28	16" (\$ / lin. Ft.)	3001' - +	49.50	\$51.75	4.55%
29	18" (\$ / lin. Ft.)	1' - 300'	226.30	\$236.50	4.51%
30	18" (\$ / lin. Ft.)	301' - 1000'	93.20	\$97.40	4.51%
31	18" (\$ / lin. Ft.)	1001' - 3000'	67.70	\$70.75	4.51%
32	18" (\$ / lin. Ft.)	3001' - +	54.20	\$56.65	4.52%
33	20" (\$ / lin. Ft.)	1' - 300'	238.50	\$249.25	4.51%
34	20" (\$ / lin. Ft.)	301' - 1000'	96.50	\$100.85	4.51%
35	20" (\$ / lin. Ft.)	1001' - 3000'	72.25	\$75.50	4.50%
36	20" (\$ / lin. Ft.)	3001' - +	56.75	\$59.30	4.49%

STEEL MAIN ABANDONMENT					
Pavement PCC - 5" < x ≤ 7" thick					
	Pipe Size	Linear Foot	Unit Price	New Price	% Increase
1	4" (\$ / lin. Ft.)	1' - 300'	25.85	\$27.00	4.45%
2	4" (\$ / lin. Ft.)	301' - 1000'	9.90	\$10.35	4.55%
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.50	\$7.85	4.67%
4	4" (\$ / lin. Ft.)	3001' - +	4.95	\$5.15	4.04%
5	6" (\$ / lin. Ft.)	1' - 300'	150.20	\$156.95	4.49%
6	6" (\$ / lin. Ft.)	301' - 1000'	60.90	\$63.65	4.52%
7	6" (\$ / lin. Ft.)	1001' - 3000'	43.75	\$45.70	4.46%
8	6" (\$ / lin. Ft.)	3001' - +	31.00	\$32.40	4.52%
9	8" (\$ / lin. Ft.)	1' - 300'	165.90	\$173.35	4.49%
10	8" (\$ / lin. Ft.)	301' - 1000'	66.25	\$69.25	4.53%
11	8" (\$ / lin. Ft.)	1001' - 3000'	46.40	\$48.50	4.53%
12	8" (\$ / lin. Ft.)	3001' - +	35.20	\$36.80	4.55%
13	10" (\$ / lin. Ft.)	1' - 300'	177.20	\$185.15	4.49%
14	10" (\$ / lin. Ft.)	301' - 1000'	73.70	\$77.00	4.48%
15	10" (\$ / lin. Ft.)	1001' - 3000'	55.20	\$57.70	4.53%
16	10" (\$ / lin. Ft.)	3001' - +	38.75	\$40.50	4.52%
17	12" (\$ / lin. Ft.)	1' - 300'	191.10	\$199.70	4.50%
18	12" (\$ / lin. Ft.)	301' - 1000'	80.20	\$83.80	4.49%
19	12" (\$ / lin. Ft.)	1001' - 3000'	58.75	\$61.40	4.51%
20	12" (\$ / lin. Ft.)	3001' - +	43.65	\$45.60	4.47%
21	14" (\$ / lin. Ft.)	1' - 300'	203.50	\$212.65	4.50%
22	14" (\$ / lin. Ft.)	301' - 1000'	84.95	\$88.75	4.47%
23	14" (\$ / lin. Ft.)	1001' - 3000'	62.75	\$65.55	4.46%
24	14" (\$ / lin. Ft.)	3001' - +	48.25	\$50.40	4.46%
25	16" (\$ / lin. Ft.)	1' - 300'	215.20	\$224.90	4.51%
26	16" (\$ / lin. Ft.)	301' - 1000'	88.30	\$92.25	4.47%
27	16" (\$ / lin. Ft.)	1001' - 3000'	66.50	\$69.50	4.51%
28	16" (\$ / lin. Ft.)	3001' - +	50.70	\$53.00	4.54%
29	18" (\$ / lin. Ft.)	1' - 300'	229.75	\$240.10	4.50%
30	18" (\$ / lin. Ft.)	301' - 1000'	95.20	\$99.50	4.52%
31	18" (\$ / lin. Ft.)	1001' - 3000'	69.00	\$72.10	4.49%
32	18" (\$ / lin. Ft.)	3001' - +	55.60	\$58.10	4.50%
33	20" (\$ / lin. Ft.)	1' - 300'	242.25	\$253.15	4.50%
34	20" (\$ / lin. Ft.)	301' - 1000'	98.60	\$103.05	4.51%
35	20" (\$ / lin. Ft.)	1001' - 3000'	73.80	\$77.10	4.47%
36	20" (\$ / lin. Ft.)	3001' - +	58.1	\$60.70	4.48%

STEEL MAIN ABANDONMENT					
Pavement PCC - 7" < x ≤ 9"					
	Pipe Size	Linear Foot	Unit Price	New Price	% Increase
1	4" (\$ / lin. Ft.)	1' - 300'	26.4	\$27.60	4.55%
2	4" (\$ / lin. Ft.)	301' - 1000'	10.25	\$10.70	4.39%
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.75	\$8.10	4.52%
4	4" (\$ / lin. Ft.)	3001' - +	5.25	\$5.50	4.76%
5	6" (\$ / lin. Ft.)	1' - 300'	152.6	\$159.45	4.49%
6	6" (\$ / lin. Ft.)	301' - 1000'	62.1	\$64.90	4.51%
7	6" (\$ / lin. Ft.)	1001' - 3000'	44.7	\$46.70	4.47%
8	6" (\$ / lin. Ft.)	3001' - +	32.25	\$33.70	4.50%
9	8" (\$ / lin. Ft.)	1' - 300'	168.3	\$175.85	4.49%
10	8" (\$ / lin. Ft.)	301' - 1000'	67.6	\$70.65	4.51%
11	8" (\$ / lin. Ft.)	1001' - 3000'	47.5	\$49.65	4.53%
12	8" (\$ / lin. Ft.)	3001' - +	36.25	\$37.90	4.55%
13	10" (\$ / lin. Ft.)	1' - 300'	179.8	\$187.90	4.51%
14	10" (\$ / lin. Ft.)	301' - 1000'	75.25	\$78.65	4.52%
15	10" (\$ / lin. Ft.)	1001' - 3000'	56.3	\$58.85	4.53%
16	10" (\$ / lin. Ft.)	3001' - +	39.65	\$41.45	4.54%
17	12" (\$ / lin. Ft.)	1' - 300'	193.95	\$202.70	4.51%
18	12" (\$ / lin. Ft.)	301' - 1000'	81.75	\$85.45	4.53%
19	12" (\$ / lin. Ft.)	1001' - 3000'	60.1	\$62.80	4.49%
20	12" (\$ / lin. Ft.)	3001' - +	44.8	\$46.80	4.46%
21	14" (\$ / lin. Ft.)	1' - 300'	206.25	\$215.55	4.51%
22	14" (\$ / lin. Ft.)	301' - 1000'	86.5	\$90.40	4.51%
23	14" (\$ / lin. Ft.)	1001' - 3000'	64.15	\$67.05	4.52%
24	14" (\$ / lin. Ft.)	3001' - +	49.4	\$51.60	4.45%
25	16" (\$ / lin. Ft.)	1' - 300'	219.25	\$229.10	4.49%
26	16" (\$ / lin. Ft.)	301' - 1000'	90.1	\$94.15	4.50%
27	16" (\$ / lin. Ft.)	1001' - 3000'	67.9	\$70.95	4.49%
28	16" (\$ / lin. Ft.)	3001' - +	51.9	\$54.25	4.53%
29	18" (\$ / lin. Ft.)	1' - 300'	232.1	\$242.55	4.50%
30	18" (\$ / lin. Ft.)	301' - 1000'	97.1	\$101.45	4.48%
31	18" (\$ / lin. Ft.)	1001' - 3000'	70.4	\$73.55	4.47%
32	18" (\$ / lin. Ft.)	3001' - +	56.85	\$59.40	4.49%
33	20" (\$ / lin. Ft.)	1' - 300'	245.5	\$256.55	4.50%
34	20" (\$ / lin. Ft.)	301' - 1000'	100.5	\$105.00	4.48%
35	20" (\$ / lin. Ft.)	1001' - 3000'	75.3	\$78.70	4.52%
36	20" (\$ / lin. Ft.)	3001' - +	59.4	\$62.05	4.46%

BALL VALVE - STEEL							
No.	Size	Type	Quantity	Unit	Unit Price	New Price	% Inc.
1	4"	Ball Valve	≥1	EA	1,190.00	\$1,244.00	4.54%
2	6"	Ball Valve	≥1	EA	1,465.00	\$1,531.00	4.51%
3	8"	Ball Valve	≥1	EA	1,704.00	\$1,781.00	4.52%
4	10"	Ball Valve	≥1	EA	1,964.00	\$2,052.00	4.48%
5	12"	Ball Valve	≥1	EA	2,760.00	\$2,884.00	4.49%
6	14"	Ball Valve	≥1	EA	3,166.00	\$3,308.00	4.49%
7	16"	Ball Valve	≥1	EA	3,960.00	\$4,138.00	4.49%
8	18"	Ball Valve	≥1	EA	4,495.00	\$4,697.00	4.49%
9	20"	Ball Valve	≥1	EA	6,135.00	\$6,411.00	4.50%

Note:

- All ball valve material is steel
- Ball valves 10" to 20" shall be gear operated and provided by LBGO
- Ball valve installation shall include valve casing and lid, valve casing extension and support pla

PRESSURE CONTROL FITTINGS						
No.	Size	Quantity	Unit	Unit Price	New	% Inc.
1.00	1"SAV	≥1	each	124.00	\$130.00	4.84%
2.00	2"SAV	≥1	each	232.00	\$242.00	4.31%
3.00	4" FT	≥1	each	421.00	\$440.00	4.51%
4.00	4" HPC	≥1	each	1,328.00	\$1,388.00	4.52%
5.00	4" PCBT	≥1	each	1,992.00	\$2,082.00	4.52%
6.00	4" PCST	≥1	each	1,992.00	\$2,082.00	4.52%
7.00	6" FT	≥1	each	1,250.00	\$1,306.00	4.48%
8.00	6" FPC	≥1	each	1,580.00	\$1,651.00	4.49%
9.00	6" PCBT	≥1	each	2,420.00	\$2,529.00	4.50%
10.00	6" PCST	≥1	each	2,432.00	\$2,541.00	4.48%
11.00	8" FT	≥1	each	1,385.00	\$1,447.00	4.48%
12.00	8" FPC	≥1	each	1,581.00	\$1,652.00	4.49%
13.00	8" PCBT	≥1	each	2,635.00	\$2,754.00	4.52%
14.00	8" PCST	≥1	each	2,635.00	\$2,754.00	4.52%
13.00	10" FPC	≥1	each	2,277.00	\$2,379.00	4.48%
14.00	10" PCBT	≥1	each	3,225.00	\$3,370.00	4.50%
15.00	10" PCST	≥1	each	3,225.00	\$3,370.00	4.50%
16.00	12" FPC	≥1	each	2,744.00	\$2,867.00	4.48%
17.00	12" PCBT	≥1	each	4,900.00	\$5,121.00	4.51%
18.00	12" PCST	≥1	each	4,900.00	\$5,121.00	4.51%
19.00	14" FPC	≥1	each	51,345.00	\$53,656.00	4.50%
20.00	16" FPC	≥1	each	60,190.00	\$62,899.00	4.50%
21.00	16" PCBT	≥1	each	61,270.00	\$64,027.00	4.50%
22.00	16" PCST	≥1	each	61,270.00	\$64,027.00	4.50%
23.00	18" FPC	≥1	each	67,050.00	\$70,067.00	4.50%
24.00	20" FPC	≥1	each	77,560.00	\$81,050.00	4.50%

NON CONTROLLABLE FITTINGS - STEEL							
No.	Size	Type	Quantity	Unit	Unit Price	New Price	% Inc
1	4"	45° Ell	per	each	1,101.00	\$1,151.00	4.54%
2	4"	90° Ell	per	each	1,101.00	\$1,151.00	4.54%
3	4"	45° Fitted & Trimmed	per	each	105.00	\$110.00	4.76%
4	4"	90° Fitted & Trimmed	per	each	105.00	\$110.00	4.76%
5	4"	End Cap	per	each	992.00	\$1,037.00	4.54%
6	4"	Tee	per	each	1,240.00	\$1,296.00	4.52%
7	4"	Insulator Fitting	per	each	1,115.00	\$1,165.00	4.48%
8	4"	Transition	per	each	1,065.00	\$1,113.00	4.51%
9	4"	Reducer	per	each	1,115.00	\$1,165.00	4.48%
10	6"	45° Ell	per	each	1,343.00	\$1,403.00	4.47%
11	6"	90° Ell	per	each	1,343.00	\$1,403.00	4.47%
12	6"	45° Fitted & Trimmed	per	each	131.00	\$137.00	4.58%
13	6"	90° Fitted & Trimmed	per	each	131.00	\$137.00	4.58%
14	6"	End Cap	per	each	1,144.00	\$1,195.00	4.46%
15	6"	Tee	per	each	1,440.00	\$1,505.00	4.51%
16	6"	Insulator Fitting	per	each	1,290.00	\$1,348.00	4.50%
17	6"	Transition	per	each	1,190.00	\$1,244.00	4.54%
18	6"	Reducer	per	each	1,290.00	\$1,348.00	4.50%

NON CONTROLLABLE FITTINGS - STEEL**NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)**

No.	Size	Type	Quantity	Unit	Unit Price	New Price	% Inc
19	8"	45° Ell	per	each	1,528.00	\$1,597.00	4.52%
20	8"	90° Ell	per	each	1,528.00	\$1,597.00	4.52%
21	8"	45° Fitted & Trimmed	per	each	238.00	\$249.00	4.62%
22	8"	90° Fitted & Trimmed	per	each	238.00	\$249.00	4.62%
23	8"	End Cap	per	each	1,246.00	\$1,302.00	4.49%
24	8"	Tee	per	each	1,936.00	\$2,023.00	4.49%
25	8"	Insulator Fitting	per	each	1,514.00	\$1,582.00	4.49%
26	8"	Transition	per	each	1,401.00	\$1,464.00	4.50%
27	8"	Reducer	per	each	1,440.00	\$1,505.00	4.51%
28	10"	45° Ell	per	each	1,805.00	\$1,886.00	4.49%
29	10"	90° Ell	per	each	1,805.00	\$1,886.00	4.49%
30	10"	45° Fitted & Trimmed	per	each	327.00	\$342.00	4.59%
31	10"	90° Fitted & Trimmed	per	each	327.00	\$342.00	4.59%
32	10"	End Cap	per	each	1,636.00	\$1,710.00	4.52%
33	10"	Tee	per	each	1,940.00	\$2,027.00	4.48%
34	10"	Insulator Fitting	per	each	1,962.00	\$2,050.00	4.49%
35	10"	Transition	per	each	1,810.00	\$1,891.00	4.48%
36	10"	Reducer	per	each	1,962.00	\$2,050.00	4.49%

NON CONTROLLABLE FITTINGS - STEEL**NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)**

No.	Size	Type	Quantity	Unit	Unit Price	New Price	% Inc
37	12"	45° Ell	per	each	2,698.00	\$2,819.00	4.48%
38	12"	90° Ell	per	each	2,698.00	\$2,819.00	4.48%
39	12"	45° Fitted & Trimmed	per	each	598.00	\$625.00	4.52%
40	12"	90° Fitted & Trimmed	per	each	598.00	\$625.00	4.52%
41	12"	End Cap	per	each	2,463.00	\$2,574.00	4.51%
42	12"	Tee	per	each	3,670.00	\$3,835.00	4.50%
43	12"	Insulator Fitting	per	each	2,760.00	\$2,884.00	4.49%
45	12"	Reducer	per	each	2,760.00	\$2,884.00	4.49%
46	14"	45° Ell	per	each	2,980.00	\$3,114.00	4.50%
47	14"	90° Ell	per	each	2,980.00	\$3,114.00	4.50%
48	14"	45° Fitted & Trimmed	per	each	615.00	\$643.00	4.55%
49	14"	90° Fitted & Trimmed	per	each	615.00	\$643.00	4.55%
50	14"	End Cap	per	each	2,501.00	\$2,614.00	4.52%
51	14"	Tee	per	each	4,290.00	\$4,483.00	4.50%
52	14"	Insulator Fitting	per	each	2,880.00	\$3,010.00	4.51%
53	14"	Reducer	per	each	2,880.00	\$3,010.00	4.51%

NON CONTROLLABLE FITTINGS - STEEL**NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)**

No.	Size	Type	Quantity	Unit	Unit Price	New Price	% Inc
54	16"	45° Ell	per	each	3,882.00	\$4,057.00	4.51%
55	16"	90° Ell	per	each	3,882.00	\$4,057.00	4.51%
56	16"	45° Fitted & Trimmed	per	each	683.00	\$714.00	4.54%
57	16"	90° Fitted & Trimmed	per	each	683.00	\$714.00	4.54%
58	16"	End Cap	per	each	3,250.00	\$3,396.00	4.49%
59	16"	Tee	per	each	5,520.00	\$5,768.00	4.49%
60	16"	Insulator Fitting	per	each	3,675.00	\$3,840.00	4.49%
61	16"	Reducer	per	each	3,675.00	\$3,840.00	4.49%
62	18"	45° Ell	per	each	4,020.00	\$4,201.00	4.50%
63	18"	90° Ell	per	each	4,020.00	\$4,201.00	4.50%
64	18"	45° Fitted & Trimmed	per	each	815.00	\$852.00	4.54%
65	18"	90° Fitted & Trimmed	per	each	815.00	\$852.00	4.54%
66	18"	End Cap	per	each	3,640.00	\$3,804.00	4.51%
67	18"	Tee	per	each	5,790.00	\$6,051.00	4.51%
68	18"	Insulator Fitting	per	each	4,118.00	\$4,303.00	4.49%
69	18"	Reducer	per	each	4,118.00	\$4,303.00	4.49%

NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)

No.	Size	Type	Quantity	Unit	Unit Price	New Price	% Inc
70	20"	45° Ell	per	each	5,236.00	\$5,472.00	4.51%
71	20"	90° Ell	per	each	5,236.00	\$5,472.00	4.51%
72	20"	45° Fitted & Trimmed	per	each	945.00	\$988.00	4.55%
73	20"	90° Fitted & Trimmed	per	each	945.00	\$988.00	4.55%
74	20"	End Cap	per	each	4,105.00	\$4,290.00	4.51%
75	20"	Tee	per	each	7,270.00	\$7,597.00	4.50%
76	20"	Insulator Fitting	per	each	5,850.00	\$6,113.00	4.50%
77	20"	Reducer	per	each	5,850.00	\$6,113.00	4.50%

NEW POLYETHYLENE SERVICE INSTALLATION					
No.	Pipe Size	Linear Foot	Unit Price	New Price	% Inc
1	1/2" (\$ / lin. Ft.)	1' - 20'	68.80	\$71.90	4.51%
2	1/2" (\$ / lin. Ft.)	21' - 40'	24.50	\$25.60	4.49%
3	1/2" (\$ / lin. Ft.)	41' - 60'	16.50	\$17.25	4.55%
4	1/2" (\$ / lin. Ft.)	61' - 80'	12.10	\$12.65	4.55%
5	1/2" (\$ / lin. Ft.)	81' - 100'	9.25	\$9.70	4.86%
6	1/2" (\$ / lin. Ft.)	101' - +	8.30	\$8.70	4.82%
7	3/4" (\$ / lin. Ft.)	1' - 20'	76.50	\$79.95	4.51%
8	3/4" (\$ / lin. Ft.)	21' - 40'	31.40	\$32.80	4.46%
9	3/4" (\$ / lin. Ft.)	41' - 60'	24.60	\$25.70	4.47%
10	3/4" (\$ / lin. Ft.)	61' - 80'	19.30	\$20.15	4.40%
11	3/4" (\$ / lin. Ft.)	81' - 100'	16.20	\$16.95	4.63%
12	3/4" (\$ / lin. Ft.)	101' - +	15.30	\$16.00	4.58%
13	1" (\$ / lin. Ft.)	1' - 20'	79.10	\$82.65	4.49%
14	1" (\$ / lin. Ft.)	21' - 40'	31.65	\$33.05	4.42%
15	1" (\$ / lin. Ft.)	41' - 60'	25.00	\$26.15	4.60%
16	1" (\$ / lin. Ft.)	61' - 80'	19.80	\$20.70	4.55%
17	1" (\$ / lin. Ft.)	81' - 100'	17.00	\$17.75	4.41%
18	1" (\$ / lin. Ft.)	101' - +	16.25	\$17.00	4.62%
19	1 1/4" (\$ / lin. Ft.)	1' - 20'	80.00	\$83.60	4.50%
20	1 1/4" (\$ / lin. Ft.)	21' - 40'	32.10	\$33.55	4.52%
21	1 1/4" (\$ / lin. Ft.)	41' - 60'	25.40	\$26.55	4.53%
22	1 1/4" (\$ / lin. Ft.)	61' - 80'	23.60	\$24.65	4.45%
23	1 1/4" (\$ / lin. Ft.)	81' - 100'	22.70	\$23.70	4.41%
24	1 1/4" (\$ / lin. Ft.)	101' - +	21.60	\$22.55	4.40%
31	2" (\$ / lin. Ft.)	1' - 20'	80.40	\$84.00	4.48%
32	2" (\$ / lin. Ft.)	21' - 40'	40.00	\$41.80	4.50%
33	2" (\$ / lin. Ft.)	41' - 60'	77.80	\$81.30	4.50%
34	2" (\$ / lin. Ft.)	61' - 80'	53.50	\$55.90	4.49%
35	2" (\$ / lin. Ft.)	81' - 100'	49.60	\$51.85	4.54%
36	2" (\$ / lin. Ft.)	101' - +	48.70	\$50.90	4.52%

POLYETHYLENE SERVICE TIE-OVER					
No.	Pipe Size	Linear Foot	Unit Price	New Price	% Inc
1	1/2" (\$ / lin. Ft.)	0'	766.00	\$800.00	4.44%
2	1/2" (\$ / lin. Ft.)	1' - 5'	302.00	\$316.00	4.64%
3	1/2" (\$ / lin. Ft.)	6' - 15'	76.00	\$79.50	4.61%
4	1/2" (\$ / lin. Ft.)	16' - 25'	39.00	\$40.75	4.49%
5	1/2" (\$ / lin. Ft.)	26' - 35'	34.00	\$35.50	4.41%
6	1/2" (\$ / lin. Ft.)	36' - 50'	30.00	\$31.35	4.50%
7	1/2" (\$ / lin. Ft.)	51' - +	28.50	\$29.80	4.56%
8	3/4" (\$ / lin. Ft.)	0'	775.00	\$810.00	4.52%
9	3/4" (\$ / lin. Ft.)	1' - 5'	306.00	\$320.00	4.58%
10	3/4" (\$ / lin. Ft.)	6' - 15'	78.00	\$81.50	4.49%
11	3/4" (\$ / lin. Ft.)	16' - 25'	44.00	\$46.00	4.55%
12	3/4" (\$ / lin. Ft.)	26' - 35'	41.00	\$42.85	4.51%
13	3/4" (\$ / lin. Ft.)	36' - 50'	34.00	\$35.55	4.56%
14	3/4" (\$ / lin. Ft.)	51' - +	29.50	\$30.85	4.58%
15	1" (\$ / lin. Ft.)	0'	779.00	\$814.00	4.49%
16	1" (\$ / lin. Ft.)	1' - 5'	309.00	\$323.00	4.53%
17	1" (\$ / lin. Ft.)	6' - 15'	79.00	\$82.55	4.49%
18	1" (\$ / lin. Ft.)	16' - 25'	45.00	\$47.00	4.44%
19	1" (\$ / lin. Ft.)	26' - 35'	42.00	\$43.90	4.52%
20	1" (\$ / lin. Ft.)	36' - 50'	35.00	\$36.60	4.57%
21	1" (\$ / lin. Ft.)	51' - +	31.00	\$32.40	4.52%
22	1 1/4" (\$ / lin. Ft.)	0'	783.00	\$818.00	4.47%
23	1 1/4" (\$ / lin. Ft.)	1' - 5'	312.00	\$326.00	4.49%
24	1 1/4" (\$ / lin. Ft.)	6' - 15'	85.00	\$88.85	4.53%
25	1 1/4" (\$ / lin. Ft.)	16' - 25'	55.00	\$57.50	4.55%
26	1 1/4" (\$ / lin. Ft.)	26' - 35'	46.00	\$48.05	4.46%
27	1 1/4" (\$ / lin. Ft.)	36' - 50'	41.00	\$42.85	4.51%
28	1 1/4" (\$ / lin. Ft.)	51' - +	39.50	\$41.30	4.56%
29	2" (\$ / lin. Ft.)	0'	851.00	\$889.00	4.47%
30	2" (\$ / lin. Ft.)	1' - 5'	340.00	\$355.00	4.41%
31	2" (\$ / lin. Ft.)	6' - 15'	91.00	\$95.10	4.51%
32	2" (\$ / lin. Ft.)	16' - 25'	74.00	\$77.35	4.53%
33	2" (\$ / lin. Ft.)	26' - 35'	52.00	\$54.35	4.52%
34	2" (\$ / lin. Ft.)	36' - 50'	48.00	\$50.15	4.48%
35	2" (\$ / lin. Ft.)	51' - +	43.00	\$44.95	4.53%

MISCELLANEOUS ITEMS						
No.	Description	Quantity	Unit	Unit Price	New Price	% Inc.
1	Excess Depth – beyond 5' - including backfill	per	cu yd	695.00	\$708.00	1.87%
3	Additional Excavation of Bell hole/Trench - Asphalt x ≤ 5"	per	sf	219.00	\$229.00	4.57%
4	Additional Excavation of Bell hole/Trench - PCC x ≤ 5"	per	sf	236.00	\$247.00	4.66%
5	Additional Excavation of Bell hole/Trench - Asphalt 5"<x≤7"	per	sf	226.00	\$236.00	4.42%
6	Additional Excavation of Bell hole/Trench - PCC 5"<x≤ 7"	per	sf	254.00	\$265.00	4.33%
7	Additional Excavation of Bell hole/Trench - Asphalt 7"<x≤9"	per	sf	242.00	\$253.00	4.55%
8	Additional Excavation of Bell hole/Trench - PCC 7"<x≤ 9"	per	sf	258.00	\$270.00	4.65%
9	Installation of 4" STL pipe ≤ 29'	per	lf	242.00	\$253.00	4.55%
10	Installation of 6" STL pipe ≤ 29'	per	lf	268.00	\$280.00	4.48%
11	Installation of 8" STL pipe ≤ 29'	per	lf	298.00	\$311.00	4.36%
12	Installation of 10" STL pipe ≤ 29'	per	lf	344.00	\$359.00	4.36%
13	Installation of 12" STL pipe ≤ 29'	per	lf	428.00	\$447.00	4.44%
14	Installation of 14" STL pipe ≤ 29'	per	lf	530.00	\$554.00	4.53%
15	Installation of 16" STL pipe ≤ 29'	per	lf	645.00	\$674.00	4.50%
16	Installation of 18" STL pipe ≤ 29'	per	lf	695.00	\$726.00	4.46%
17	Installation of 20" STL pipe ≤ 29'	per	lf	812.00	\$849.00	4.56%
18	4" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	4,225.00	\$4,415.00	4.50%
19	6" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	5,470.00	\$5,716.00	4.50%
20	8" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	6,620.00	\$6,918.00	4.50%
21	10" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	8,350.00	\$8,726.00	4.50%
22	12" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	9,500.00	\$9,928.00	4.51%
23	Grind/Sink - 1" Steel Plate	per	sf	12.00	\$12.55	4.58%
24	Repair of Traffic Signal Loops	per	each	490.00	\$512.00	4.49%
25	Installation of Electronic Test Station	per	each	365.00	\$382.00	4.66%
26	Potholing - Vacuum Truck	per	hour	185.00	\$194.00	4.86%
27	California Department of Transportation - Tandem Construction Permit	per	each	825.00	\$862.00	4.48%
28	Mobilization Charge/Remobilization - Pipe Installation ≥ 500'	per	each	6,200.00	\$6,479.00	4.50%
29	Mobilization Charge/Remobilization - Pipe Installation 100' - 499'	per	each	5,050.00	\$5,278.00	4.51%
30	Mobilization Charge/Remobilization - Pipe Installation ≤ 99'	per	each	4,100.00	\$4,285.00	4.51%

ARB, Inc.

Cost Plus Labor Rates:

Gas Distribution (Long Beach Gas & Oil) RATES EFFECTIVE THROUGH SEPTEMBER 30, 2018

Craft	Hourly Rates		
	Straight Time	Overtime	Premium Time
<u>PROJECT MANAGEMENT</u>			
Superintendent	154.77	214.45	274.14
<u>U.A. PIPEFITTERS/WELDERS</u>			
General Foreman	152.12	211.66	270.64
Metal Trades Helper(Shortline Agreement)	71.10	92.46	113.57
Journeyman Welder(Shortline Agreement)	119.93	162.72	206.84
Welder Foreman(Shortline Agreement)	127.36	173.95	220.25
<u>LABORERS</u>			
Lead Foreman	116.33	160.54	204.75
Foreman	98.43	133.69	168.95
1st Period Apprentice	49.73	66.90	84.08
3rd Period Apprentice	58.81	80.52	102.23
Group III(Wrapper, PTO)	89.92	120.92	151.92
Group IV(Cribber/Shorer, Pipelayer)	92.72	125.12	157.52
Group V	93.35	126.07	158.79
<u>TEAMSTERS</u>			
Lead Foreman	124.70	169.06	213.27
Foreman	93.55	122.11	150.67
Working Truck Driver	90.84	118.05	145.25
Semi/Lowbed Driver	92.70	120.84	148.97
<u>OPERATING ENGINEERS</u>			
Foreman	120.42	163.90	207.38
Oiler(Group II)	113.10	152.61	192.15
Unjversal	117.34	158.56	200.26
Heavy Duty Mechanic	117.07	158.88	200.69

TRAVEL TIME = ONE(1) HOUR OVERTIME IN AREAS GREATER THAN 50 MILES

SUBSISTENCE: Superintendent/General Foreman/Welders-\$110.00/day-All Other Crafts-\$75.00/day

Material, Subcontractors, Subsistence and Outside Rentals(including fuel costs) will be billed cost plus sales tax where applicable, plus markup of 15%.

Rates are subject to adjustment as Union Labor Agreements expire.

Shift work rates will adjust per Union Labor Agreements.

Note: This rate sheet is not all inclusive, additional classifications are available if required.