

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

CONTRACT

33970

THIS CONTRACT is made and entered, in duplicate, as of August 12, 2015 for reference purposes only, pursuant to a minute order adopted by the City Council of the City of Long Beach at its meeting held on August 11, 2015, by and between ARB, INC., a California corporation ("Contractor"), whose address is 26000 Commercentre Drive, Lake Forest, California 92630, and the CITY OF LONG BEACH, a municipal corporation ("City").

WHEREAS, pursuant to a "Notice Inviting Bids for Annual Contract for Steel Gas Pipeline Construction in the City of Long Beach, California," dated July 8, 2015, and published by City, bids were received, publicly opened and declared on the date specified in said Notice; and

WHEREAS, the City Manager accepted the bid of Contractor; and

WHEREAS, the City Council authorized the City Manager to enter a contract with Contractor for the work described in Plans and Specifications No. G-331;

NOW, THEREFORE, in consideration of the mutual terms and conditions herein, the parties agree as follows:

1. SCOPE OF WORK. Contractor shall furnish all necessary labor, supervision, tools, materials, supplies, appliances, equipment and transportation for the work described in "Plans and Specifications No. G-331 for Annual Contract for Steel Gas Pipeline Construction in the City of Long Beach, California," said work to be performed according to the Contract Documents identified below. However, this Contract is intended to provide to City complete and finished work and, to that end, Contractor shall do everything necessary to complete the work, whether or not specifically described in the Contract Documents.

2. PRICE AND PAYMENT.

A. City shall pay to Contractor the amount(s) for materials and work identified in Contractor's "Bid for Annual Contract for Steel Gas Pipeline Construction in the City of Long Beach, California," attached hereto as Exhibit "A".

1 B. Contractor shall submit requests for progress payments and
2 City will make payments in due course of payments in accordance with Section 9 of
3 the Standard Specifications for Public Works Construction (latest edition).

4 3. CONTRACT DOCUMENTS.

5 A. The Contract Documents include: The Notice Inviting Bids,
6 Project Specifications No. G-331 (which may include by reference the Standard
7 Specifications for Public Works Construction, latest edition, and any supplements
8 thereto, collectively the "Standard Specifications"); the City of Long Beach Standard
9 Plans; Project Plans for this work; the California Code of Regulations; the various
10 Uniform Codes applicable to trades; the prevailing wage rates; Instructions to
11 Bidders; the Bid; the bid security; the City of Long Beach Disadvantaged, Minority
12 and Women-Owned Business Enterprise Program; this Contract and all documents
13 attached hereto or referenced herein including but not limited to insurance; Bond for
14 Faithful Performance; Payment Bond; Notice to Proceed; Notice of Completion; any
15 addenda or change orders issued in accordance with the Standard Specifications;
16 any permits required and issued for the work; approved final design drawings and
17 documents; and the Information Sheet. These Contract Documents are
18 incorporated herein by the above reference and form a part of this Contract.

19 B. Notwithstanding Section 2-5.2 of the Standard Specifications,
20 if any conflict or inconsistency exists or develops among or between Contract
21 Documents, the following priority shall govern: 1) Permit(s) from other public
22 agencies; 2) Change Orders; 3) this Contract (including any and all amendments
23 hereto); 4) Addenda (which shall include written clarifications, corrections and
24 changes to the bid documents and other types of written notices issued prior to bid
25 opening; 5) Project Specifications; 6) Project Plans (including drawings); 7) the City
26 of Long Beach Standard Plans; 8) Standard Specifications (as identified in Section
27 3.A. hereof, the "Greenbook"); 9) other reference specifications; 10) other
28 reference plans; 11) the bid; and 12) the Notice Inviting Bids.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

4. TIME FOR CONTRACT.

A. The term of this Contract shall commence at midnight on September 1, 2015, and shall terminate at 11:59 p.m. on August 31, 2017, unless sooner terminated as provided in this Contract, or unless the services or the Project is completed sooner. The parties have the option to renew this Contract for two additional one-year terms.

B. Contractor shall commence work on a date to be specified in a written "Notice to Proceed" from City for each Project or portion thereof. Each "Notice to Proceed" shall contain a Project Start Date. Contractor and City shall mutually agree to the Project Completion Date in writing within ten (10) days following the issuance of the "Notice to Proceed." All work identified in Specifications No. G-331 shall be completed prior to August 31, 2017, subject to strikes, lockouts and events beyond the control of Contractor. Time is of the essence hereunder. City will suffer damage if the work is not completed within the time stated, but those damages would be difficult or impractical to determine. So, Contractor shall pay to City, as liquidated damages, the amount stated in the Contract Documents.

5. ACCEPTANCE OF WORK NOT TO CONSTITUTE A WAIVER. The

acceptance of any work or the payment of any money by City shall not operate as a waiver of any provision of any Contract Document, of any power reserved to City, or of any right to damages or indemnity hereunder. The waiver of any breach or any default hereunder shall not be deemed a waiver of any other or subsequent breach or default.

6. WORKERS' COMPENSATION CERTIFICATION. Concurrently

herewith, Contractor shall submit certification of Workers' Compensation coverage in accordance with California Labor Code Sections 1860 and 3700, a copy of which is attached hereto as Exhibit "B".

7. CLAIMS FOR EXTRA WORK. No claim shall be made at any time

upon City by Contractor for and on account of any extra or additional work performed or

1 materials furnished, unless such extra or additional work or materials shall have been
2 expressly required by the City Manager and the quantities and price thereof shall have
3 been first agreed upon, in writing, by the parties hereto.

4 8. CLAIMS. Contractor shall, upon completion of the work, deliver
5 possession thereof to City ready for use and free and discharged from all claims for labor
6 and materials in doing the work and shall assume and be responsible for, and shall protect,
7 defend, indemnify and hold harmless City from and against any and all claims, demands,
8 causes of action, liability, loss, costs or expenses for injuries to or death of persons, or
9 damages to property, including property of City, which arises from or is connected with the
10 performance of the work.

11 9. INSURANCE. Prior to commencement of work, and as a condition
12 precedent to the effectiveness of this Contract, Contractor shall provide to City evidence of
13 all insurance required in the Contract Documents.

14 In addition, Contractor shall complete and deliver to City the form
15 ("Information Sheet") attached as Exhibit "C" and incorporated by reference, to comply with
16 Labor Code Section 2810.

17 10. WORK DAY. Contractor shall comply with Sections 1810 through
18 1815 of the California Labor Code regarding hours of work. Contractor shall forfeit, as a
19 penalty to City, the sum of Twenty-Five Dollars (\$25) for each worker employed by
20 Contractor or any subcontractor for each calendar day such worker is required or permitted
21 to work more than eight (8) hours unless that worker receives compensation in accordance
22 with Section 1815.

23 11. PREVAILING WAGE RATES. Contractor is directed to the prevailing
24 wage rates. Contractor shall forfeit, as a penalty to the City, Two Hundred Dollars (\$200)
25 for each laborer, worker or mechanic employed for each calendar day, or portion thereof,
26 that such laborer, worker or mechanic is paid less than the prevailing wage rates for any
27 work done by Contractor, or any subcontractor, under this Contract.

28 ///

1 12. COORDINATION WITH GOVERNMENTAL REGULATIONS.

2 A. If the work is terminated pursuant to an order of any Federal or
3 State authority, Contractor shall accept as full and complete compensation under
4 this Contract such amount of money as will equal the product of multiplying the
5 Contract price stated herein by the percentage of work completed by Contractor as
6 of the date of such termination, and for which Contractor has not been paid. If the
7 work is so terminated, the City Engineer, after consultation with Contractor, shall
8 determine the percentage of work completed and the determination of the City
9 Engineer shall be final.

10 B. If Contractor is prevented, in any manner, from strict
11 compliance with the Plans and Specifications due to any Federal or State law, rule
12 or regulation, in addition to all other rights and remedies reserved to the parties City
13 may by resolution of the City Council suspend performance hereunder until the
14 cause of disability is removed, extend the time for performance, make changes in
15 the character of the work or materials, or terminate this Contract without liability to
16 either party.

17 13. NOTICES.

18 A. Any notice required hereunder shall be in writing and personally
19 delivered or deposited in the U.S. Postal Service, first class, postage prepaid, to
20 Contractor at the address first stated herein, and to the City at 333 West Ocean
21 Boulevard, Long Beach, California 90802, Attn: City Manager. Notice of change of
22 address shall be given in the same manner as stated herein for other notices. Notice
23 shall be deemed given on the date deposited in the mail or on the date personal
24 delivery is made, whichever first occurs.

25 B. Except for stop notices and claims made under the Labor Code,
26 City will notify Contractor when City receives any third party claims relating to this
27 Contract in accordance with Section 9201 of the Public Contract Code.

28 ///

1 14. BONDS. Contractor shall, simultaneously with the execution of this
2 Contract, execute and deliver to City a good and sufficient corporate surety bond, in the
3 form attached hereto and in the amount specified therein, conditioned upon the faithful
4 performance of this Contract by Contractor, and a good and sufficient corporate surety
5 bond, in the form attached hereto and in the amount specified therein, conditioned upon
6 the payment of all labor and material claims incurred in connection with this Contract.

7 15. COVENANT AGAINST ASSIGNMENT. Neither this Contract nor any
8 of the moneys that may become due Contractor hereunder may be assigned by Contractor
9 without the written consent of City first had and obtained, nor will City recognize any
10 subcontractor as such, and all persons engaged in the work of construction will be
11 considered as independent contractors or agents of Contractor and will be held directly
12 responsible to Contractor.

13 16. CERTIFIED PAYROLL RECORDS.

14 A. Contractor shall keep and shall cause each subcontractor
15 performing any portion of the work under this Contract to keep an accurate payroll
16 record, showing the name, address, social security number, work classification,
17 straight time and overtime hours worked each day and week, and the actual per
18 diem wages paid to each journeyman, apprentice, worker, or other employee
19 employed by Contractor or subcontractor in connection with the work, all in
20 accordance with Division 2, Part 7, Article 2 of the California Labor Code. Such
21 payroll records for Contractor and all subcontractors shall be certified and shall be
22 available for inspection at all reasonable hours at the principal office of Contractor
23 pursuant to the provisions of Section 1776 of the Labor Code. Contractor's failure
24 to furnish such records to City in the manner provided herein for notices shall entitle
25 City to withhold the penalty prescribed by law from progress payments due to
26 Contractor.

27 B. Upon completion of the work, Contractor shall submit to the City
28 certified payroll records for Contractor and all subcontractors performing any portion

1 of the work under this Contract. Certified payroll records for Contractor and all
2 subcontractors shall be maintained during the course of the work and shall be kept
3 by Contractor for up to three (3) years after completion of the work.

4 C. The foregoing is in addition to, and not in lieu of, any other
5 requirements or obligations established and imposed by any department of the City
6 with regard to submission and retention of certified payroll records for Contractor
7 and subcontractors.

8 17. RESPONSIBILITY OF CONTRACTOR. Notwithstanding anything to
9 the contrary in the Standard Specifications, Contractor shall have the responsibility, care
10 and custody of the work. If any loss or damage occurs to the work that is not covered by
11 collectible commercial insurance, excluding loss or damage caused by earthquake or flood
12 or the negligence or willful misconduct of City, then Contractor shall immediately make the
13 City whole for any such loss or pay for any damage. If Contractor fails or refuses to make
14 the City whole or pay, then City may do so and the cost and expense of doing so shall be
15 deducted from the amount due Contractor from City hereunder.

16 18. CONTINUATION. Termination or expiration of this Contract shall not
17 terminate the rights or liabilities of either party which rights or liabilities accrued or existed
18 prior to termination or expiration of this Contract.

19 19. TAXES AND TAX REPORTING.

20 A. As required by federal and state law, City is obligated to and
21 will report the payment of compensation to Contractor on Form 1099-Misc.
22 Contractor shall be solely responsible for payment of all federal and state taxes
23 resulting from payments under this Contract. Contractor shall submit Contractor's
24 Employer Identification Number (EIN), or Contractor's Social Security Number if
25 Contractor does not have an EIN, in writing to City's Accounts Payable, Department
26 of Financial Management. Contractor acknowledges and agrees that City has no
27 obligation to pay Contractor until Contractor provides one of these numbers.

28 B. Contractor shall cooperate with City in all matters relating to

1 taxation and the collection of taxes, particularly with respect to the self-accrual of
2 use tax. Contractor shall cooperate as follows: (i) for all leases and purchases of
3 materials, equipment, supplies, or other tangible personal property totaling over
4 \$100,000 shipped from outside California, a qualified Contractor shall complete and
5 submit to the appropriate governmental entity the form in Appendix "A" attached
6 hereto; and (ii) for construction contracts and subcontracts totaling \$5,000,000 or
7 more, Contractor shall obtain a sub-permit from the California Board of Equalization
8 for the Work site. "Qualified" means that the Contractor purchased at least \$500,000
9 in tangible personal property that was subject to sales or use tax in the previous
10 calendar year.

11 C. Contractor shall create and operate a buying company, as
12 defined in State of California Board of Equalization Regulation 1699, subpart (h), in
13 City if Contractor will purchase over \$10,000 in tangible personal property subject
14 to California sales and use tax.

15 D. In completing the form and obtaining the permit(s), Contractor
16 shall use the address of the Work site as its business address and may use any
17 address for its mailing address. Copies of the form and permit(s) shall also be
18 delivered to the City Engineer. The form must be submitted and the permit(s)
19 obtained as soon as Contractor receives a Notice to Proceed. Contractor shall not
20 order any materials or equipment over \$100,000 from vendors outside California
21 until the form is submitted and the permit(s) obtained and, if Contractor does so, it
22 shall be a material breach of this Contract. In addition, Contractor shall make all
23 purchases from the Long Beach sales office of its vendors if those vendors have a
24 Long Beach office and all purchases made by Contractor under this Contract which
25 are subject to use tax of \$500,000 or more shall be allocated to the City of Long
26 Beach. Contractor shall require the same cooperation with City, with regards to
27 subsections B, C and D under this section (including forms and permits), from its
28 subcontractors and any other subcontractors who work directly or indirectly under

1 the overall authority of this Contract.

2 E. Contractor shall not be entitled to and by signing this Contract
3 waives any claim or damages for delay against City if Contractor does not timely
4 submit these forms to the appropriate governmental entity. Contractor may contact
5 the City Controller at (562) 570-6450 for assistance with the form.

6 20. ADVERTISING. Contractor shall not use the name of City, its officials
7 or employees in any advertising or solicitation for business, nor as a reference, without the
8 prior approval of the City Manager, City Engineer or designee.

9 21. AUDIT. City shall have the right at all reasonable times during
10 performance of the work under this Contract for a period of five (5) years after final
11 completion of the work to examine, audit, inspect, review, extract information from and
12 copy all books, records, accounts and other documents of Contractor relating to this
13 Contract.

14 22. NO PECULIAR RISK. Contractor acknowledges and agrees that the
15 work to be performed hereunder does not constitute a peculiar risk of bodily harm and that
16 no special precautions are required to perform said work.

17 23. THIRD PARTY BENEFICIARY. This Contract is intended by the
18 parties to benefit themselves only and is not in any way intended or designed to or entered
19 for the purpose of creating any benefit or right of any kind for any person or entity that is
20 not a party to this Contract.

21 24. SUBCONTRACTORS. Contractor agrees to and shall bind every
22 subcontractor to the terms of this Contract; provided, however, that nothing herein shall
23 create any obligation on the part of City to pay any subcontractor except in accordance
24 with a court order in an action to foreclose a stop notice. Failure of Contractor to comply
25 with this Section shall be deemed a material breach of this Contract. A list of
26 subcontractor(s) submitted by Contractor in compliance with Public Contract Code
27 Sections 4100 et seq. is attached hereto as Exhibit "D" and incorporated herein by this
28 reference.

1 25. NO DUTY TO INSPECT. No language in this Contract shall create
2 and City shall not have any duty to inspect, correct, warn of or investigate any condition
3 arising from Contractor's work hereunder, or to insure compliance with laws, rules or
4 regulations relating to said work. If City does inspect or investigate, the results thereof
5 shall not be deemed compliance with or a waiver of any requirements of the Contract
6 Documents.

7 26. GOVERNING LAW. This Contract shall be governed by and
8 construed pursuant to the laws of the State of California (except those provisions of
9 California law pertaining to conflicts of laws).

10 27. INTEGRATION. This Contract, including the Contract Documents
11 identified in Section 3 hereof, constitutes the entire understanding between the parties and
12 supersedes all other agreements, oral or written, with respect to the subject matter herein.

13 28. NONDISCRIMINATION. In connection with performance of this
14 Contract and subject to federal laws, rules and regulations, Contractor shall not
15 discriminate in employment or in the performance of this Contract on the basis of race,
16 religion, national origin, color, age, sex, sexual orientation, gender identity, AIDS, HIV
17 status, handicap or disability. It is the policy of the City to encourage the participation of
18 Disadvantaged, Minority and Women-Owned Business Enterprises, and the City
19 encourages Contractor to use its best efforts to carry out this policy in the award of all
20 subcontracts.

21 29. EQUAL BENEFITS ORDINANCE. Unless otherwise exempted in
22 accordance with the provisions of the Ordinance, this Contract is subject to the applicable
23 provisions of the Equal Benefits Ordinance ("EBO"), section 2.73 et seq. of the Long Beach
24 Municipal Code, as amended from time to time.

25 A. During the performance of this Contract, the Contractor certifies
26 and represents that the Contractor will comply with the EBO. The Contractor agrees
27 to post the following statement in conspicuous places at its place of business
28 available to employees and applicants for employment:

1 “During the performance of a Contract with the City of Long Beach, the
2 Contractor will provide equal benefits to employees with spouses and its
3 employees with domestic partners. Additional information about the City of
4 Long Beach’s Equal Benefits Ordinance may be obtained from the City of
5 Long Beach Business Services Division at 562-570-6200.”

6 B. The failure of the Contractor to comply with the EBO will be
7 deemed to be a material breach of the Contract by the City.

8 C. If the Contractor fails to comply with the EBO, the City may
9 cancel, terminate or suspend the Contract, in whole or in part, and monies due or to
10 become due under the Contract may be retained by the City. The City may also
11 pursue any and all other remedies at law or in equity for any breach.

12 D. Failure to comply with the EBO may be used as evidence
13 against the Contractor in actions taken pursuant to the provisions of Long Beach
14 Municipal Code 2.93 et seq., Contractor Responsibility.

15 E. If the City determines that the Contractor has set up or used its
16 contracting entity for the purpose of evading the intent of the EBO, the City may
17 terminate the Contract on behalf of the City. Violation of this provision may be used
18 as evidence against the Contractor in actions taken pursuant to the provisions of
19 Long Beach Municipal Code section 2.93 et seq., Contractor Responsibility.

20 30. DEFAULT. Default shall include but not be limited to Contractor's
21 failure to perform in accordance with the Plans and Specifications, failure to comply with
22 any Contract Document, failure to pay any penalties, fines or charges assessed against
23 Contractor by any public agency, failure to pay any charges or fees for services performed
24 by the City, and if Contractor has substituted any security in lieu of retention, then default
25 shall also include City's receipt of a stop notice. If default occurs and Contractor has
26 substituted any security in lieu of retention, then in addition to City's other legal remedies,
27 City shall have the right to draw on the security in accordance with Public Contract Code
28 Section 22300 and without further notice to Contractor. If default occurs and Contractor

1 has not substituted any security in lieu of retention, then City shall have all legal remedies
2 available to it.

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

5 ARB, INC., a California corporation

6 _____, 2015

By 

Name John M. Perisich

Title Sr. Vice President

General Counsel, Secretary

7
8
9 _____, 2015

By 

Name GREGORY S. DAHL

Title SENIOR VICE PRESIDENT

11 "Contractor"

12 CITY OF LONG BEACH, a municipal
13 corporation

14 Sept. 4, 2015

By 

City Manager

EXECUTED PURSUANT
TO SECTION 301 OF
THE CITY CHARTER.

16 "City" Assistant City Manager

17 This Contract is approved as to form on August 31, 2015.

18 CHARLES PARKIN, City Attorney

19 By 

Deputy

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

EXHIBIT "A"

Contractor's Bid

BIDDER'S NAME: ARB, Inc.

**BID TO THE CITY OF LONG BEACH
ANNUAL CONTRACT FOR
STEEL GAS PIPELINE CONSTRUCTION**

In accordance with the Notice Inviting Bids for this Work in the City of Long Beach, California, to be opened on July 8, 2015, at 3:00 p.m., we offer to furnish all necessary labor, tools, materials, appliances and equipment for and perform all Work mentioned in the Notice Inviting Bids, in full compliance with Plans & Specifications No. G-331 (ITB GO 15-118 Rebid) at the following prices.

Because the City is unable to predict the requirements for each bid item, award of the Contract will be based on a representative sample of items. The lowest responsive bidder will be determined by a weighted sum of the sample item unit prices. The sample items and weighting to be used will be selected by the City, kept in a sealed envelope, and opened at the bid opening in order to ensure a competitive bidding process bidding process. The City intends to award an all-inclusive contract to one Contractor for the Work.

Contractor shall submit an extra personnel and equipment rate schedule with the following bid documents for use to account for additional equipment and personnel, necessary to complete the work. The rate schedule shall include the following:

- Personnel Hourly Rate (regular hours)
- Personnel Hourly Rate (overtime)
- Equipment Hourly Rate Hourly with minimum
- Equipment Hourly Rate (overtime)
- Equipment with Operator Hourly Rate with minimum
- Equipment with Operator Hourly Rate (overtime)

STEEL MAIN INSTALLATION				
Method of Installation - Open Trench Pavement Asphalt - x ≤ 5" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	402.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301'-1000'	228.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	159.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	153.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	645.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301'-1000'	333.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	230.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	214.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	842.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301'-1000'	410.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	303.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	278.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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

STEEL MAIN INSTALLATION				
Method of Installation - Open Trench Pavement Asphalt - 5" < x ≤ 7" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	408.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301'-1000'	231.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	161.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	155.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	655.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301'-1000'	338.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	233.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	217.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	855.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301'-1000'	416.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	308.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	282.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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

STEEL MAIN INSTALLATION				
Method of Installation - Open Trench Pavement Asphalt - 7" < x ≤ 9" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	414.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301'-1000'	234.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	163.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	157.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	665.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301'-1000'	343.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	236.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	220.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	868.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301'-1000'	422.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	313.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	286.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 $x \geq 30'$ 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 - x ≤ 5" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	407.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301'-1000'	231.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	161.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	155.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	651.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301'-1000'	336.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	232.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	216.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	850.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301'-1000'	414.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	306.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	281.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 $x \geq 30'$ 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 - 5" < x ≤ 7" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	415.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301'-1000'	236.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	164.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	158.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	664.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301'-1000'	343.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	237.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	220.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	867.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301'-1000'	422.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	312.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	287.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 $x \geq 30'$ 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
1	8" (\$ / lin. Ft.)	1' - 300'	423.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301'-1000'	241.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	167.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	161.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	677.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301'-1000'	350.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	242.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	224.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	884.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301'-1000'	430.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	318.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	293.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 $x \geq 30'$ 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 - ARTERIAL STREET CROSSING				
Method of Installation - Open Trench Pavement PCC - 7" < x ≤ 9"				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 120'	830.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	12" (\$ / lin. Ft.)	1' - 120'	1,336.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	16 (\$ / lin. Ft.)	1' - 120'	1,618.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
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
1	8" (\$ / lin. Ft.)	1' - 120'	814.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	12" (\$ / lin. Ft.)	1' - 120'	1,310.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	16 (\$ / lin. Ft.)	1' - 120'	1,586.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 - HDD				
Pavement Asphalt - x ≤ 5" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	506.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301' - 1000'	208.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	163.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	141.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	626.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301' - 1000'	272.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	215.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	189.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	1,008.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301' - 1000'	414.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	345.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	313.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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				
Method of Installation - HDD				
Pavement Asphalt - 5" < x ≤ 7" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	511.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301' - 1000'	211.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	165.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	143.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	632.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301' - 1000'	276.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	218.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	191.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	1,017.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301' - 1000'	419.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	350.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	317.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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
1	8" (\$ / lin. Ft.)	1' - 300'	516.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301' - 1000'	214.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	167.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	145.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	638.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301' - 1000'	280.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	221.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	193.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	1,026.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301' - 1000'	424.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	355.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	321.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 PCC - x ≤ 5" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	514.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301' - 1000'	212.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	166.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	144.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	634.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301' - 1000'	277.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	219.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	192.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	1,022.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301' - 1000'	421.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	351.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	318.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 - 5" < x ≤ 7" thick				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	519.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301' - 1000'	215.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	168.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	146.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	640.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301' - 1000'	281.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	222.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	195.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	1,031.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301' - 1000'	427.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	356.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	322.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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 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				
Method of Installation - HDD				
Pavement PCC - 7" < x ≤ 9"				
No.	Pipe Size	Linear Foot	Unit Price	Contractor Crew Size
1	8" (\$ / lin. Ft.)	1' - 300'	524.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
2	8" (\$ / lin. Ft.)	301' - 1000'	218.00	1 Foreman, 1 Welder, 1 Backhoe, 4 Laborers, + Vehicles
3	8" (\$ / lin. Ft.)	1001' - 3000'	170.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
4	8" (\$ / lin. Ft.)	3000' - +	148.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
5	12" (\$ / lin. Ft.)	1' - 300'	646.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
6	12" (\$ / lin. Ft.)	301' - 1000'	285.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
7	12" (\$ / lin. Ft.)	1001' - 3000'	225.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
8	12" (\$ / lin. Ft.)	3000' - +	198.00	1 Foreman, 1 Welder, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
9	16" (\$ / lin. Ft.)	1' - 300'	1,040.00	1 Foreman, 1 Operator, 1 Backhoe, 3 Laborers, + Vehicles
10	16" (\$ / lin. Ft.)	301' - 1000'	433.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom 4 Laborers, + Vehicles
11	16" (\$ / lin. Ft.)	1001' - 3000'	361.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles
12	16" (\$ / lin. Ft.)	3000' - +	326.00	1 Foreman, 2 Welders, 1 Backhoe, 1 Sideboom, 4 Laborers, + Vehicles

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	No.	Pipe Size	Linear Foot	Unit Price
1	4" (\$ / lin. Ft.)	1' - 300'	24.80	21	14" (\$ / lin. Ft.)	1' - 300'	197.00
2	4" (\$ / lin. Ft.)	301' - 1000'	9.35	22	14" (\$ / lin. Ft.)	301' - 1000'	80.90
3	4" (\$ / lin. Ft.)	1001' - 3000'	6.80	23	14" (\$ / lin. Ft.)	1001' - 3000'	59.40
4	4" (\$ / lin. Ft.)	3001' - +	4.30	24	14" (\$ / lin. Ft.)	3001' - +	44.75
5	6" (\$ / lin. Ft.)	1' - 300'	145.75	25	16" (\$ / lin. Ft.)	1' - 300'	207.80
6	6" (\$ / lin. Ft.)	301' - 1000'	58.50	26	16" (\$ / lin. Ft.)	301' - 1000'	84.30
7	6" (\$ / lin. Ft.)	1001' - 3000'	41.70	27	16" (\$ / lin. Ft.)	1001' - 3000'	63.10
8	6" (\$ / lin. Ft.)	3001' - +	29.30	28	16" (\$ / lin. Ft.)	3001' - +	47.60
9	8" (\$ / lin. Ft.)	1' - 300'	159.50	29	18" (\$ / lin. Ft.)	1' - 300'	221.00
10	8" (\$ / lin. Ft.)	301' - 1000'	62.70	30	18" (\$ / lin. Ft.)	301' - 1000'	90.20
11	8" (\$ / lin. Ft.)	1001' - 3000'	43.80	31	18" (\$ / lin. Ft.)	1001' - 3000'	65.50
12	8" (\$ / lin. Ft.)	3001' - +	32.40	32	18" (\$ / lin. Ft.)	3001' - +	51.80
13	10" (\$ / lin. Ft.)	1' - 300'	171.00	33	20" (\$ / lin. Ft.)	1' - 300'	233.00
14	10" (\$ / lin. Ft.)	301' - 1000'	70.25	34	20" (\$ / lin. Ft.)	301' - 1000'	93.50
15	10" (\$ / lin. Ft.)	1001' - 3000'	52.10	35	20" (\$ / lin. Ft.)	1001' - 3000'	69.70
16	10" (\$ / lin. Ft.)	3001' - +	36.60	36	20" (\$ / lin. Ft.)	3001' - +	54.60
17	12" (\$ / lin. Ft.)	1' - 300'	185.70				
18	12" (\$ / lin. Ft.)	301' - 1000'	76.30				
19	12" (\$ / lin. Ft.)	1001' - 3000'	55.70				
20	12" (\$ / lin. Ft.)	3001' - +	40.90				

Note:

- Light to Medium soil class A
- Pipe abandonment includes any saw cutting, pavement and soil excavation and haul off up to 5' depth, shoring, backfill and final paving
- Abandoning and slurry filling of associated pipelines ≥ 6"
- Isolation cuts every 200' - 300' for associated pipelines ≤ 4"
- Abandonment footage shall be invoiced based on total job footage to be abandoned
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95%
- Clean up and all other work required for gas pipe abandonment
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Abandonment done in conjunction with Pipe Install

Contractor Crew Size

- 1 welder
- 1 welder helper
- 1 foreman
- 1 backhoe
- 3 labors
- Vehicles

- Include Nitrogen for purging

STEEL MAIN ABANDONMENT							
Pavement Asphalt - 5" < x ≤ 7" thick							
	Pipe Size	Linear Foot	Unit Price		Pipe Size	Linear Foot	Unit Price
1	4" (\$ / lin. Ft.)	1' - 300'	25.10	21	14" (\$ / lin. Ft.)	1' - 300'	199.50
2	4" (\$ / lin. Ft.)	301' - 1000'	9.55	22	14" (\$ / lin. Ft.)	301' - 1000'	82.55
3	4" (\$ / lin. Ft.)	1001' - 3000'	6.95	23	14" (\$ / lin. Ft.)	1001' - 3000'	60.60
4	4" (\$ / lin. Ft.)	3001' - +	4.45	24	14" (\$ / lin. Ft.)	3001' - +	45.90
5	6" (\$ / lin. Ft.)	1' - 300'	147.25	25	16" (\$ / lin. Ft.)	1' - 300'	210.40
6	6" (\$ / lin. Ft.)	301' - 1000'	59.45	26	16" (\$ / lin. Ft.)	301' - 1000'	85.90
7	6" (\$ / lin. Ft.)	1001' - 3000'	42.40	27	16" (\$ / lin. Ft.)	1001' - 3000'	64.40
8	6" (\$ / lin. Ft.)	3001' - +	29.85	28	16" (\$ / lin. Ft.)	3001' - +	48.55
9	8" (\$ / lin. Ft.)	1' - 300'	162.00	29	18" (\$ / lin. Ft.)	1' - 300'	224.50
10	8" (\$ / lin. Ft.)	301' - 1000'	63.85	30	18" (\$ / lin. Ft.)	301' - 1000'	92.10
11	8" (\$ / lin. Ft.)	1001' - 3000'	44.75	31	18" (\$ / lin. Ft.)	1001' - 3000'	66.90
12	8" (\$ / lin. Ft.)	3001' - +	33.25	32	18" (\$ / lin. Ft.)	3001' - +	53.25
13	10" (\$ / lin. Ft.)	1' - 300'	173.40	33	20" (\$ / lin. Ft.)	1' - 300'	236.00
14	10" (\$ / lin. Ft.)	301' - 1000'	71.65	34	20" (\$ / lin. Ft.)	301' - 1000'	94.95
15	10" (\$ / lin. Ft.)	1001' - 3000'	53.15	35	20" (\$ / lin. Ft.)	1001' - 3000'	71.20
16	10" (\$ / lin. Ft.)	3001' - +	37.40	36	20" (\$ / lin. Ft.)	3001' - +	55.80
17	12" (\$ / lin. Ft.)	1' - 300'	187.60				
18	12" (\$ / lin. Ft.)	301' - 1000'	77.75				
19	12" (\$ / lin. Ft.)	1001' - 3000'	56.90				
20	12" (\$ / lin. Ft.)	3001' - +	41.95				

Note:

- Light to Medium soil class A
- Pipe abandonment includes any saw cutting, pavement and soil excavation and haul off up to 5' depth, backfill and final paving
- Abandoning and slurry filling of associated pipelines ≥ 6"
- Isolation cuts every 200' - 300' for associated pipelines ≤ 4"
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95%
- Clean up and all other work required for gas pipe abandonment
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Abandonment done in conjunction with Pipe Install
 - Contractor Crew Size
 - 1 welder
 - 1 welder helper
 - 1 foreman
 - 1 backhoe
 - 3 labors
 - Vehicles
- Include Nitrogen for purging

STEEL MAIN ABANDONMENT							
Pavement Asphalt - 7" < x ≤ 9" thick							
	Pipe Size	Linear Foot	Unit Price		Pipe Size	Linear Foot	Unit Price
1	4" (\$ / lin. Ft.)	1' - 300'	25.70	21	14" (\$ / lin. Ft.)	1' - 300'	202.30
2	4" (\$ / lin. Ft.)	301' - 1000'	9.80	22	14" (\$ / lin. Ft.)	301' - 1000'	84.25
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.25	23	14" (\$ / lin. Ft.)	1001' - 3000'	61.90
4	4" (\$ / lin. Ft.)	3001' - +	4.75	24	14" (\$ / lin. Ft.)	3001' - +	46.95
5	6" (\$ / lin. Ft.)	1' - 300'	149.60	25	16" (\$ / lin. Ft.)	1' - 300'	213.20
6	6" (\$ / lin. Ft.)	301' - 1000'	60.80	26	16" (\$ / lin. Ft.)	301' - 1000'	87.65
7	6" (\$ / lin. Ft.)	1001' - 3000'	43.30	27	16" (\$ / lin. Ft.)	1001' - 3000'	65.80
8	6" (\$ / lin. Ft.)	3001' - +	30.75	28	16" (\$ / lin. Ft.)	3001' - +	49.75
9	8" (\$ / lin. Ft.)	1' - 300'	164.20	29	18" (\$ / lin. Ft.)	1' - 300'	227.80
10	8" (\$ / lin. Ft.)	301' - 1000'	65.20	30	18" (\$ / lin. Ft.)	301' - 1000'	93.75
11	8" (\$ / lin. Ft.)	1001' - 3000'	45.80	31	18" (\$ / lin. Ft.)	1001' - 3000'	68.30
12	8" (\$ / lin. Ft.)	3001' - +	34.15	32	18" (\$ / lin. Ft.)	3001' - +	54.60
13	10" (\$ / lin. Ft.)	1' - 300'	176.00	33	20" (\$ / lin. Ft.)	1' - 300'	239.20
14	10" (\$ / lin. Ft.)	301' - 1000'	73.20	34	20" (\$ / lin. Ft.)	301' - 1000'	96.80
15	10" (\$ / lin. Ft.)	1001' - 3000'	54.40	35	20" (\$ / lin. Ft.)	1001' - 3000'	72.75
16	10" (\$ / lin. Ft.)	3001' - +	38.30	36	20" (\$ / lin. Ft.)	3001' - +	56.95
17	12" (\$ / lin. Ft.)	1' - 300'	189.90				
18	12" (\$ / lin. Ft.)	301' - 1000'	79.20				
19	12" (\$ / lin. Ft.)	1001' - 3000'	58.10				
20	12" (\$ / lin. Ft.)	3001' - +	42.90				

Note:

- Light to Medium soil class A
- Pipe abandonment includes any saw cutting, pavement and soil excavation and haul off up to 5' depth, backfill and final paving
- Abandoning and slurry filling of associated pipelines ≥ 6"
- Isolation cuts every 200' - 300' for associated pipelines ≤ 4"
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95%
- Clean up and all other work required for gas pipe abandonment
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Abandonment done in conjunction with Pipe Install

Contractor Crew Size

- 1 welder
- 1 welder helper
- 1 foreman
- 1 backhoe
- 3 labors
- Vehicles

- Include Nitrogen for purging

STEEL MAIN ABANDONMENT							
Pavement PCC - x ≤ 5" thick							
	Pipe Size	Linear Foot	Unit Price		Pipe Size	Linear Foot	Unit Price
1	4" (\$ / lin. Ft.)	1' - 300'	25.30	21	14" (\$ / lin. Ft.)	1' - 300'	200.85
2	4" (\$ / lin. Ft.)	301' - 1000'	9.65	22	14" (\$ / lin. Ft.)	301' - 1000'	83.25
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.25	23	14" (\$ / lin. Ft.)	1001' - 3000'	61.40
4	4" (\$ / lin. Ft.)	3001' - +	4.70	24	14" (\$ / lin. Ft.)	3001' - +	46.75
5	6" (\$ / lin. Ft.)	1' - 300'	147.80	25	16" (\$ / lin. Ft.)	1' - 300'	212.00
6	6" (\$ / lin. Ft.)	301' - 1000'	59.75	26	16" (\$ / lin. Ft.)	301' - 1000'	86.70
7	6" (\$ / lin. Ft.)	1001' - 3000'	42.70	27	16" (\$ / lin. Ft.)	1001' - 3000'	65.20
8	6" (\$ / lin. Ft.)	3001' - +	30.15	28	16" (\$ / lin. Ft.)	3001' - +	49.50
9	8" (\$ / lin. Ft.)	1' - 300'	163.50	29	18" (\$ / lin. Ft.)	1' - 300'	226.30
10	8" (\$ / lin. Ft.)	301' - 1000'	64.70	30	18" (\$ / lin. Ft.)	301' - 1000'	93.20
11	8" (\$ / lin. Ft.)	1001' - 3000'	45.40	31	18" (\$ / lin. Ft.)	1001' - 3000'	67.70
12	8" (\$ / lin. Ft.)	3001' - +	34.20	32	18" (\$ / lin. Ft.)	3001' - +	54.20
13	10" (\$ / lin. Ft.)	1' - 300'	174.55	33	20" (\$ / lin. Ft.)	1' - 300'	238.50
14	10" (\$ / lin. Ft.)	301' - 1000'	72.15	34	20" (\$ / lin. Ft.)	301' - 1000'	96.50
15	10" (\$ / lin. Ft.)	1001' - 3000'	53.90	35	20" (\$ / lin. Ft.)	1001' - 3000'	72.25
16	10" (\$ / lin. Ft.)	3001' - +	37.80	36	20" (\$ / lin. Ft.)	3001' - +	56.75
17	12" (\$ / lin. Ft.)	1' - 300'	188.65				
18	12" (\$ / lin. Ft.)	301' - 1000'	78.40				
19	12" (\$ / lin. Ft.)	1001' - 3000'	57.50				
20	12" (\$ / lin. Ft.)	3001' - +	42.60				

Note:

- Light to Medium soil class A
- Pipe abandonment includes any saw cutting, pavement and soil excavation and haul off up to 5' depth, backfill and final paving
- Abandoning and slurry filling of associated pipelines ≥ 6"
- Isolation cuts every 200' - 300' for associated pipelines ≤ 4"
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95%
- Clean up and all other work required for gas pipe abandonment
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Abandonment done in conjunction with Pipe Install

Contractor Crew Size

- 1 welder
- 1 welder helper
- 1 foreman
- 1 backhoe
- 3 labors
- Vehicles

- Include Nitrogen for purging

STEEL MAIN ABANDONMENT							
Pavement PCC - 5" < x ≤ 7" thick							
	Pipe Size	Linear Foot	Unit Price		Pipe Size	Linear Foot	Unit Price
1	4" (\$ / lin. Ft.)	1' - 300'	25.85	21	14" (\$ / lin. Ft.)	1' - 300'	203.50
2	4" (\$ / lin. Ft.)	301' - 1000'	9.90	22	14" (\$ / lin. Ft.)	301' - 1000'	84.95
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.50	23	14" (\$ / lin. Ft.)	1001' - 3000'	62.75
4	4" (\$ / lin. Ft.)	3001' - +	4.95	24	14" (\$ / lin. Ft.)	3001' - +	48.25
5	6" (\$ / lin. Ft.)	1' - 300'	150.20	25	16" (\$ / lin. Ft.)	1' - 300'	215.20
6	6" (\$ / lin. Ft.)	301' - 1000'	60.90	26	16" (\$ / lin. Ft.)	301' - 1000'	88.30
7	6" (\$ / lin. Ft.)	1001' - 3000'	43.75	27	16" (\$ / lin. Ft.)	1001' - 3000'	66.50
8	6" (\$ / lin. Ft.)	3001' - +	31.00	28	16" (\$ / lin. Ft.)	3001' - +	50.70
9	8" (\$ / lin. Ft.)	1' - 300'	165.90	29	18" (\$ / lin. Ft.)	1' - 300'	229.75
10	8" (\$ / lin. Ft.)	301' - 1000'	66.25	30	18" (\$ / lin. Ft.)	301' - 1000'	95.20
11	8" (\$ / lin. Ft.)	1001' - 3000'	46.40	31	18" (\$ / lin. Ft.)	1001' - 3000'	69.00
12	8" (\$ / lin. Ft.)	3001' - +	35.20	32	18" (\$ / lin. Ft.)	3001' - +	55.60
13	10" (\$ / lin. Ft.)	1' - 300'	177.20	33	20" (\$ / lin. Ft.)	1' - 300'	242.25
14	10" (\$ / lin. Ft.)	301' - 1000'	73.70	34	20" (\$ / lin. Ft.)	301' - 1000'	98.60
15	10" (\$ / lin. Ft.)	1001' - 3000'	55.20	35	20" (\$ / lin. Ft.)	1001' - 3000'	73.80
16	10" (\$ / lin. Ft.)	3001' - +	38.75	36	20" (\$ / lin. Ft.)	3001' - +	58.10
17	12" (\$ / lin. Ft.)	1' - 300'	191.10				
18	12" (\$ / lin. Ft.)	301' - 1000'	80.20				
19	12" (\$ / lin. Ft.)	1001' - 3000'	58.75				
20	12" (\$ / lin. Ft.)	3001' - +	43.65				

Note:

- Light to Medium soil class A
- Pipe abandonment includes any saw cutting, pavement and soil excavation and haul off up to 5' depth, backfill and final paving
- Abandoning and slurry filling of associated pipelines ≥ 6"
- Isolation cuts every 200' - 300' for associated pipelines ≤ 4"
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95%
- Clean up and all other work required for gas pipe abandonment
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Abandonment done in conjunction with Pipe Install
 - Contractor Crew Size
 - 1 welder
 - 1 welder helper
 - 1 foreman
 - 1 backhoe
 - 3 labors
 - Vehicles
- Include Nitrogen for purging

STEEL MAIN ABANDONMENT							
Pavement PCC - 7" < x ≤ 9"							
	Pipe Size	Linear Foot	Unit Price		Pipe Size	Linear Foot	Unit Price
1	4" (\$ / lin. Ft.)	1' - 300'	26.40	21	14" (\$ / lin. Ft.)	1' - 300'	206.25
2	4" (\$ / lin. Ft.)	301' - 1000'	10.25	22	14" (\$ / lin. Ft.)	301' - 1000'	86.50
3	4" (\$ / lin. Ft.)	1001' - 3000'	7.75	23	14" (\$ / lin. Ft.)	1001' - 3000'	64.15
4	4" (\$ / lin. Ft.)	3001' - +	5.25	24	14" (\$ / lin. Ft.)	3001' - +	49.40
5	6" (\$ / lin. Ft.)	1' - 300'	152.60	25	16" (\$ / lin. Ft.)	1' - 300'	219.25
6	6" (\$ / lin. Ft.)	301' - 1000'	62.10	26	16" (\$ / lin. Ft.)	301' - 1000'	90.10
7	6" (\$ / lin. Ft.)	1001' - 3000'	44.70	27	16" (\$ / lin. Ft.)	1001' - 3000'	67.90
8	6" (\$ / lin. Ft.)	3001' - +	32.25	28	16" (\$ / lin. Ft.)	3001' - +	51.90
9	8" (\$ / lin. Ft.)	1' - 300'	168.30	29	18" (\$ / lin. Ft.)	1' - 300'	232.10
10	8" (\$ / lin. Ft.)	301' - 1000'	67.60	30	18" (\$ / lin. Ft.)	301' - 1000'	97.10
11	8" (\$ / lin. Ft.)	1001' - 3000'	47.50	31	18" (\$ / lin. Ft.)	1001' - 3000'	70.40
12	8" (\$ / lin. Ft.)	3001' - +	36.25	32	18" (\$ / lin. Ft.)	3001' - +	56.85
13	10" (\$ / lin. Ft.)	1' - 300'	179.80	33	20" (\$ / lin. Ft.)	1' - 300'	245.50
14	10" (\$ / lin. Ft.)	301' - 1000'	75.25	34	20" (\$ / lin. Ft.)	301' - 1000'	100.50
15	10" (\$ / lin. Ft.)	1001' - 3000'	56.30	35	20" (\$ / lin. Ft.)	1001' - 3000'	75.30
16	10" (\$ / lin. Ft.)	3001' - +	39.65	36	20" (\$ / lin. Ft.)	3001' - +	59.40
17	12" (\$ / lin. Ft.)	1' - 300'	193.95				
18	12" (\$ / lin. Ft.)	301' - 1000'	81.75				
19	12" (\$ / lin. Ft.)	1001' - 3000'	60.10				
20	12" (\$ / lin. Ft.)	3001' - +	44.80				

Note:

- Light to Medium soil Class A
- Pipe abandonment includes any saw cutting, pavement and soil excavation and haul off up to 5' depth, backfill and final paving
- Abandoning and slurry filling of associated pipelines ≥ 6"
- Isolation cuts every 200' - 300' for associated pipelines ≤ 4"
- USA marking, layout, scheduling, traffic control devices (signs, barricades, delineators, arrow boards, etc...)
- Compaction to 95%
- Clean up and all other work required for gas pipe abandonment
- Based on 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- Abandonment done in conjunction with Pipe Install
 - Contractor Crew Size
 - 1 welder
 - 1 welder helper
 - 1 foreman
 - 1 backhoe
 - 3 labors
 - Vehicles
- Include Nitrogen for purging

BALL VALVE - STEEL					
No.	Size	Type	Quantity	Unit	Unit Price
1	4"	Ball Valve	≥1	EA	1,190.00
2	6"	Ball Valve	≥1	EA	1,465.00
3	8"	Ball Valve	≥1	EA	1,704.00
4	10"	Ball Valve	≥1	EA	1,964.00
5	12"	Ball Valve	≥1	EA	2,760.00
6	14"	Ball Valve	≥1	EA	3,166.00
7	16"	Ball Valve	≥1	EA	3,960.00
8	18"	Ball Valve	≥1	EA	4,495.00
9	20"	Ball Valve	≥1	EA	6,135.00

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 plate

PRESSURE CONTROL FITTINGS									
No.	Size	Quantity	Unit	Unit Price	No.	Size	Quantity	Unit	Unit Price
1	1"SAV	≥1	each	124.00	13	10" FPC	≥1	each	2,277.00
2	2"SAV	≥1	each	232.00	14	10" PCBT	≥1	each	3,225.00
3	4" FT	≥1	each	421.00	15	10" PCST	≥1	each	3,225.00
4	4" HPC	≥1	each	1,328.00	16	12" FPC	≥1	each	2,744.00
5	4" PCBT	≥1	each	1,992.00	17	12" PCBT	≥1	each	4,900.00
6	4" PCST	≥1	each	1,992.00	18	12" PCST	≥1	each	4,900.00
7	6" FT	≥1	each	1,250.00	19	14" FPC	≥1	each	51,345.00
8	6" FPC	≥1	each	1,580.00	20	16" FPC	≥1	each	60,190.00
9	6" PCBT	≥1	each	2,420.00	21	16" PCBT	≥1	each	61,270.00
10	6" PCST	≥1	each	2,432.00	22	16" PCST	≥1	each	61,270.00
11	8" FT	≥1	each	1,385.00	23	18" FPC	≥1	each	67,050.00
12	8" FPC	≥1	each	1,581.00	24	20" FPC	≥1	each	77,560.00
13	8" PCBT	≥1	each	2,635.00					
14	8" PCST	≥1	each	2,635.00					

Note:

- Pressure Control Fittings to include installation and testing
- Pressure Control Fittings larger than 12" will be provided by contractor (Cost of fitting to be included in bid item)
- Pressure Control Fittings > 12" and all HPCs, contractor to include tapping and stopping in bid item
- All Save-A-Valve include tapping
- Isolated fittings, excavation will be invoiced at Miscellaneous Items #4 and #5
- SAV (Mueller Sav-A-Valve Drilling Nipple) - 275psig
- FT (Mueller Flanged Tee) - 275psig
- HPC (Mueller Half Line Stopper Fitting) - 275psig
- FPC (Mueller Full Line Stopper Fitting) - 275psig
- PCBT (Mueller Bottom -Out Stopper) - 275psig
- PCST (Mueller Side-Out Stopper) - 275psig

NON CONTROLLABLE FITTINGS - STEEL					
No.	Size	Type	Quantity	Unit	Unit Price
1	4"	45° Ell	per	each	1,101.00
2	4"	90° Ell	per	each	1,101.00
3	4"	45° Fitted & Trimmed	per	each	105.00
4	4"	90° Fitted & Trimmed	per	each	105.00
5	4"	End Cap	per	each	992.00
6	4"	Tee	per	each	1,240.00
7	4"	Insulator Fitting	per	each	1,115.00
8	4"	Transition	per	each	1,065.00
9	4"	Reducer	per	each	1,115.00
10	6"	45° Ell	per	each	1,343.00
11	6"	90° Ell	per	each	1,343.00
12	6"	45° Fitted & Trimmed	per	each	131.00
13	6"	90° Fitted & Trimmed	per	each	131.00
14	6"	End Cap	per	each	1,144.00
15	6"	Tee	per	each	1,440.00
16	6"	Insulator Fitting	per	each	1,290.00
17	6"	Transition	per	each	1,190.00
18	6"	Reducer	per	each	1,290.00

NON CONTROLLABLE FITTINGS - STEEL					
NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)					
No.	Size	Type	Quantity	Unit	Unit Price
19	8"	45° Ell	per	each	1,528.00
20	8"	90° Ell	per	each	1,528.00
21	8"	45° Fitted & Trimmed	per	each	238.00
22	8"	90° Fitted & Trimmed	per	each	238.00
23	8"	End Cap	per	each	1,246.00
24	8"	Tee	per	each	1,936.00
25	8"	Insulator Fitting	per	each	1,514.00
26	8"	Transition	per	each	1,401.00
27	8"	Reducer	per	each	1,440.00
28	10"	45° Ell	per	each	1,805.00
29	10"	90° Ell	per	each	1,805.00
30	10"	45° Fitted & Trimmed	per	each	327.00
31	10"	90° Fitted & Trimmed	per	each	327.00
32	10"	End Cap	per	each	1,636.00
33	10"	Tee	per	each	1,940.00
34	10"	Insulator Fitting	per	each	1,962.00
35	10"	Transition	per	each	1,810.00
36	10"	Reducer	per	each	1,962.00

NON CONTROLLABLE FITTINGS - STEEL					
NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)					
No.	Size	Type	Quantity	Unit	Unit Price
37	12"	45° Ell	per	each	2,698.00
38	12"	90° Ell	per	each	2,698.00
39	12"	45° Fitted & Trimmed	per	each	598.00
40	12"	90° Fitted & Trimmed	per	each	598.00
41	12"	End Cap	per	each	2,463.00
42	12"	Tee	per	each	3,670.00
43	12"	Insulator Fitting	per	each	2,760.00
45	12"	Reducer	per	each	2,760.00
46	14"	45° Ell	per	each	2,980.00
47	14"	90° Ell	per	each	2,980.00
48	14"	45° Fitted & Trimmed	per	each	615.00
49	14"	90° Fitted & Trimmed	per	each	615.00
50	14"	End Cap	per	each	2,501.00
51	14"	Tee	per	each	4,290.00
52	14"	Insulator Fitting	per	each	2,880.00
53	14"	Reducer	per	each	2,880.00

NON CONTROLLABLE FITTINGS - STEEL					
NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)					
No.	Size	Type	Quantity	Unit	Unit Price
54	16"	45° Ell	per	each	3,882.00
55	16"	90° Ell	per	each	3,882.00
56	16"	45° Fitted & Trimmed	per	each	683.00
57	16"	90° Fitted & Trimmed	per	each	683.00
58	16"	End Cap	per	each	3,250.00
59	16"	Tee	per	each	5,520.00
60	16"	Insulator Fitting	per	each	3,675.00
61	16"	Reducer	per	each	3,675.00
62	18"	45° Ell	per	each	4,020.00
63	18"	90° Ell	per	each	4,020.00
64	18"	45° Fitted & Trimmed	per	each	815.00
65	18"	90° Fitted & Trimmed	per	each	815.00
66	18"	End Cap	per	each	3,640.00
67	18"	Tee	per	each	5,790.00
68	18"	Insulator Fitting	per	each	4,118.00
69	18"	Reducer	per	each	4,118.00
NON CONTROLLABLE FITTINGS - STEEL (CONTINUED)					
No.	Size	Type	Quantity	Unit	Unit Price
70	20"	45° Ell	per	each	5,236.00
71	20"	90° Ell	per	each	5,236.00
72	20"	45° Fitted & Trimmed	per	each	945.00
73	20"	90° Fitted & Trimmed	per	each	945.00
74	20"	End Cap	per	each	4,105.00
75	20"	Tee	per	each	7,270.00
76	20"	Insulator Fitting	per	each	5,850.00
77	20"	Reducer	per	each	5,850.00

Note:

- All non-controllable fitting material are to be considered steel for bid purposes
- All non-controllable fittings to include fitting and trimming
- All reducers shall be invoiced based on largest diameter
- All insulators shall be coordinated with LBGO to include CP wire installation

NEW POLYETHYLENE SERVICE INSTALLATION							
No.	Pipe Size	Linear Foot	Unit Price	No.	Pipe Size	Linear Foot	Unit Price
1	1/2" (\$ / lin. Ft.)	1' - 20'	68.80	19	1 1/4" (\$ / lin. Ft.)	1' - 20'	80.00
2	1/2" (\$ / lin. Ft.)	21' - 40'	24.50	20	1 1/4" (\$ / lin. Ft.)	21' - 40'	32.10
3	1/2" (\$ / lin. Ft.)	41' - 60'	16.50	21	1 1/4" (\$ / lin. Ft.)	41' - 60'	25.40
4	1/2" (\$ / lin. Ft.)	61' - 80'	12.10	22	1 1/4" (\$ / lin. Ft.)	61' - 80'	23.60
5	1/2" (\$ / lin. Ft.)	81' - 100'	9.25	23	1 1/4" (\$ / lin. Ft.)	81' - 100'	22.70
6	1/2" (\$ / lin. Ft.)	101' - +	8.30	24	1 1/4" (\$ / lin. Ft.)	101' - +	21.60
7	3/4" (\$ / lin. Ft.)	1' - 20'	76.50	31	2" (\$ / lin. Ft.)	1' - 20'	80.40
8	3/4" (\$ / lin. Ft.)	21' - 40'	31.40	32	2" (\$ / lin. Ft.)	21' - 40'	40.00
9	3/4" (\$ / lin. Ft.)	41' - 60'	24.60	33	2" (\$ / lin. Ft.)	41' - 60'	77.80
10	3/4" (\$ / lin. Ft.)	61' - 80'	19.30	34	2" (\$ / lin. Ft.)	61' - 80'	53.50
11	3/4" (\$ / lin. Ft.)	81' - 100'	16.20	35	2" (\$ / lin. Ft.)	81' - 100'	49.60
12	3/4" (\$ / lin. Ft.)	101' - +	15.30	36	2" (\$ / lin. Ft.)	101' - +	48.70
13	1" (\$ / lin. Ft.)	1' - 20'	79.10				
14	1" (\$ / lin. Ft.)	21' - 40'	31.65				
15	1" (\$ / lin. Ft.)	41' - 60'	25.00				
16	1" (\$ / lin. Ft.)	61' - 80'	19.80				
17	1" (\$ / lin. Ft.)	81' - 100'	17.00				
18	1" (\$ / lin. Ft.)	101' - +	16.25				

Note:

- Light to medium soil excavation
- Pipe Installation includes saw cutting, soil excavation, backfill and any final paving (ROW or Property (standard PCC paving))
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- P.E. fabrication, service to main connection, transition fitting, excess flow valve and riser installation
- Sewer line inspection by CCTV before and after - Damaged sewer line shall be repaired by contractor at contractor's expense
- Compaction at 95% in ROW; match existing conditions on property
- Bell holes, street crossings and plating
- Pressure testing and gas handling operations
- Pinching of 1/2" to 2" P.E. pipelines
- 1/2" service installation shall be inserted for bid purposes, prior to approval of LBGO
- Service installation shall be invoiced based on footage - not alter, tie-over or branch
- 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)
- PE pipe installed per Specification G228P

POLYETHYLENE SERVICE TIE-OVER							
No.	Pipe Size	Linear Foot	Unit Price	No.	Pipe Size	Linear Foot	Unit Price
1	1/2" (\$ / lin. Ft.)	0'	766.00	22	1 1/4" (\$ / lin. Ft.)	0'	783.00
2	1/2" (\$ / lin. Ft.)	1' - 5'	302.00	23	1 1/4" (\$ / lin. Ft.)	1' - 5'	312.00
3	1/2" (\$ / lin. Ft.)	6' - 15'	76.00	24	1 1/4" (\$ / lin. Ft.)	6' - 15'	85.00
4	1/2" (\$ / lin. Ft.)	16' - 25'	39.00	25	1 1/4" (\$ / lin. Ft.)	16' - 25'	55.00
5	1/2" (\$ / lin. Ft.)	26' - 35'	34.00	26	1 1/4" (\$ / lin. Ft.)	26' - 35'	46.00
6	1/2" (\$ / lin. Ft.)	36' - 50'	30.00	27	1 1/4" (\$ / lin. Ft.)	36' - 50'	41.00
7	1/2" (\$ / lin. Ft.)	51' - +	28.50	28	1 1/4" (\$ / lin. Ft.)	51' - +	39.50
8	3/4" (\$ / lin. Ft.)	0'	775.00	29	2" (\$ / lin. Ft.)	0'	851.00
9	3/4" (\$ / lin. Ft.)	1' - 5'	306.00	30	2" (\$ / lin. Ft.)	1' - 5'	340.00
10	3/4" (\$ / lin. Ft.)	6' - 15'	78.00	31	2" (\$ / lin. Ft.)	6' - 15'	91.00
11	3/4" (\$ / lin. Ft.)	16' - 25'	44.00	32	2" (\$ / lin. Ft.)	16' - 25'	74.00
12	3/4" (\$ / lin. Ft.)	26' - 35'	41.00	33	2" (\$ / lin. Ft.)	26' - 35'	52.00
13	3/4" (\$ / lin. Ft.)	36' - 50'	34.00	34	2" (\$ / lin. Ft.)	36' - 50'	48.00
14	3/4" (\$ / lin. Ft.)	51' - +	29.50	35	2" (\$ / lin. Ft.)	51' - +	43.00
15	1" (\$ / lin. Ft.)	0'	779.00				
16	1" (\$ / lin. Ft.)	1' - 5'	309.00				
17	1" (\$ / lin. Ft.)	6' - 15'	79.00				
18	1" (\$ / lin. Ft.)	16' - 25'	45.00				
19	1" (\$ / lin. Ft.)	26' - 35'	42.00				
20	1" (\$ / lin. Ft.)	36' - 50'	35.00				
21	1" (\$ / lin. Ft.)	51' - +	31.00				

Note:

- Light to medium soil excavation
- Pipe Installation includes saw cutting, soil excavation, backfill and any final paving in ROW
- Pre-inspection and job scheduling
- Disconnecting, abandoning, by-passing, and purging of associated pipelines
- P.E. fabrication, service to main connection, transition fitting and excess flow valve
- Sewer line inspection by CCTV before and after - Damaged sewer line shall be repaired by contractor at contractor's expense
- Compaction at 95% in ROW
- Bell holes, street crossings and plating
- Pressure testing and gas handling operations
- Pinching of 1/2" to 2" P.E. pipelines
- 1/2" service installation shall be inserted for bid purposes, prior to approval of LBGO
- Service installation shall be invoiced based on footage
- Clean up and all other work required for gas pipe installation
- Based on a 40 hour work week (5 days - 8 hour or 4 days - 10 hour)
- PE pipe to be installed per Specification G228P

MISCELLANEOUS ITEMS				
No.	Description	Quantity	Unit	Unit Price
1	Excess Depth – beyond 5' - including backfill	per	cu yd	695.00
3	Additional Excavation of Bell hole/Trench - Asphalt x ≤ 5"	per	sf	219.00
4	Additional Excavation of Bell hole/Trench - PCC x ≤ 5"	per	sf	236.00
5	Additional Excavation of Bell hole/Trench - Asphalt 5"<x≤7"	per	sf	226.00
6	Additional Excavation of Bell hole/Trench - PCC 5"<x≤7"	per	sf	254.00
7	Additional Excavation of Bell hole/Trench - Asphalt 7"<x≤9"	per	sf	242.00
8	Additional Excavation of Bell hole/Trench - PCC 7"<x≤9"	per	sf	258.00
9	Installation of 4" STL pipe ≤ 29'	per	lf	242.00
10	Installation of 6" STL pipe ≤ 29'	per	lf	268.00
11	Installation of 8" STL pipe ≤ 29'	per	lf	298.00
12	Installation of 10" STL pipe ≤ 29'	per	lf	344.00
13	Installation of 12" STL pipe ≤ 29'	per	lf	428.00
14	Installation of 14" STL pipe ≤ 29'	per	lf	530.00
15	Installation of 16" STL pipe ≤ 29'	per	lf	645.00
16	Installation of 18" STL pipe ≤ 29'	per	lf	695.00
17	Installation of 20" STL pipe ≤ 29'	per	lf	812.00
18	4" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	4,225.00
19	6" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	5,470.00
20	8" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	6,620.00
21	10" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	8,350.00
22	12" - Tap & Stop - Full Encirclement Pressure Control Fitting	per	each	9,500.00
23	Grind/Sink - 1" Steel Plate	per	sf	12.00
24	Repair of Traffic Signal Loops	per	each	490.00
25	Installation of Electronic Test Station	per	each	365.00
26	Potholing - Vacuum Truck	per	hour	185.00
27	California Department of Transportation - Tandem Construction Permit	per	each	825.00
28	Mobilization Charge/Remobilization - Pipe Installation ≥ 500'	per	each	6,200.00
29	Mobilization Charge/Remobilization - Pipe Installation 100' - 499'	per	each	5,050.00
30	Mobilization Charge/Remobilization - Pipe Installation ≤ 99'	per	each	4,100.00

Note:

- Excess Depth will be Invoiced based on additional excavation, haul-off and backfill - Shoring to be included under pipe footage installation
- Additional Excavation shall include saw cutting, excavation and haul-off, backfill and final paving - Only apply to excavation up to 5' deep
- Additional pipe installation to include time and work required to install pipe ≤ 29'; Pipe joints 30' and longer to be invoiced per unit pricing
- Tap & Stop on full encirclement pressure control fittings shall include (FT, FPC, PCBT and PCST - See Pressure Control Fitting sheet for description)
- Repair of Traffic Control loops to be completed per City of Long Beach Public Works - Traffic Operations Specifications
- Installation of ETS is based on valve lid and casing, valve casing extension and support plate - wire install to be coordinated with LBG0
- California Department of Transportation - Tandem Permit to be invoiced at cost of permit plus any additional expense to obtain
- Mobilization/Remobilization includes demobilization per work order



City of Long Beach

Department of Financial Management
Division of Procurement
333 W Ocean Blvd. 7th floor, Long Beach, California 90802
p 562.570.6020
Michelle.King@Longbeach.gov

July 2, 2015

ADDENDUM #6
ITB GO-15-118 (R) G-331
Annual Contract for Steel Pipeline Construction

BID DUE DATE: Wednesday, July 8, 2015 @ 11:00 am

Please fill in your percentage for renewal by year increase not to exceed:

First renewal year: 4 %
Second renewal year: 3 %
Third renewal year: 3 %

Prepared By: Michelle King Date: July 2, 2015
Buyer II

Acknowledged By: ARB, Inc.
Company Name
Steve Balkcom Vice President
Print Name
Steve Balkcom Signature
July 7, 2015 Date

You are required to submit this document with your proposal. Failure to do so may disqualify your proposal.

ARB, Inc.

Cost Plus Labor Rates:

Gas Distribution (Long Beach Gas & Oil)

RATES EFFECTIVE THROUGH JUNE 30, 2016

Craft	Hourly Rates		
	Straight Time	Overtime	Premium Time
<u>PROJECT MANAGEMENT</u>			
Superintendent	147.64	204.66	261.67
<u>U.A. PIPEFITTERS/WELDERS</u>			
General Foreman	145.00	201.10	257.19
Metal Trades Helper(Shortline Agreement)	67.65	87.85	108.06
Journeyman Welder(Shortline Agreement)	113.98	154.64	195.29
Welder Foreman(Shortline Agreement)	121.35	165.41	209.46
<u>LABORERS</u>			
Lead Foreman	111.67	154.15	196.64
Foreman	94.03	127.70	161.36
1st Period Apprentice	47.56	63.73	79.91
3rd Period Apprentice	56.42	77.03	97.64
Group III(Wrapper, PTO)	85.92	115.53	145.14
Group IV(Cribber/Shorer, Pipelayer)	88.86	119.93	151.01
Group V	89.52	120.93	152.34
Group VI	93.40	126.75	160.10
<u>TEAMSTERS</u>			
Lead Foreman	118.58	161.06	203.54
Foreman	89.18	116.96	144.74
Working Truck Driver	86.42	112.83	139.23
Semi/Lowbed Driver	89.23	117.04	144.85
<u>OPERATING ENGINEERS</u>			
Foreman	115.26	156.45	197.65
Oiler(Group II)	107.70	145.12	182.55
Universal	111.58	150.94	190.30
Heavy Duty Mechanic	111.80	151.27	190.74

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

SUBSISTENCE: Superintendent/General Foreman-\$100.00/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.

ARB, INC. - TIME AND MATERIAL EQUIPMENT HOURLY RATES (EFFECTIVE 07/01/13)

TRACTORS	EXCAVATORS (CONT.)	WINCH/PIPE PULLING (CONT.)	GENERATORS (CONT.)	MISCELLANEOUS (CONT.)
CAT DOZER D4	BEDDING CONVEYOR	HYDRAULIC WINCH 20TON	SPECIALTY GENERATOR	GAS MONITOR ALL TYPES
CAT DOZER D5	HYDRAULIC BREAKER 2,000LB	HYDRAULIC WINCH 40TON	PUMPS	PIPE JEEEP/PIPE LOCATOR
CAT DOZER D6	HYDRAULIC BREAKER 5,000LB	SPECIALTY WINCH PIPE PULLING	SPRAGUE TEST PUMP	RECORDING CLOCK/D.W. TESTER
CAT DOZER D7	HYDRAULIC BREAKER 10,000LB	TRENCHERS (EXCL. TEETH)	TRASH PUMP 1 1/2-3"	SAND BLASTING POT
CAT DOZER D8	SPECIALTY EXCAVATOR	CLEVELAND J36	TRASH PUMP 4"	HYTORC
CAT DOZER D8 WRIPPER	SPECIALTY ATTACHMENT	VERMEER V8550	TRASH PUMP 6"	EMULSION SPRAYER
CAT MOTOR GRADER 120G	WHEEL LOADERS	JETCO 780HD	TRASH PUMP 8"	PIPE ROLLER UP TO 20"
CAT MOTOR GRADER 140G	CAT LOADER 128	VERMEER 758	TRASH PUMP 10"	PIPE ROLLER UP TO 48"
CAT MOTOR GRADER 16G	CAT LOADER 950G	TRENCOR 1360	TEST PUMP 4GPM	THREADING MACHINE 2"
TACK TRACTOR	CAT LOADER 962	CAPITAL 1080	TEST PUMP 8GPM	THREADING MACHINE 4"
TIMCO MAT HANDLER	CAT LOADER 966G	SPECIALTY TRENCHER	TEST PUMP 25-100GPM COMBO	TAPPING TOOL 1/2-2"
SPECIALTY TRACTOR	CAT LOADER 989/350	COMPACTION	TEST PUMP 160GPM	TAPPING TOOL 3-12"
PIPELAYERS	SKIDSTEER LOADER	RAMMER COMPACTOR	SPECIALTY PUMP	LOWERING IN CRADLE UP TO 20"
CAT SIDEBOOM DOZER D3/7D7	SKIDSTEER ATTACHMENT	VIBRATORY SHEEPS FOOT	CONCRETE	LOWERING IN CRADLE UP TO 48"
CAT D4/CASE 450 SIDEBOOM	SKIP LOADER	RAMMAX	CONCRETE VIBRATOR	HEATED EPOXY SPRAY RIG
CAT PIPELAYER 561	ASPHALT ZIPPER (EXCL. TEETH)	VIBRATORY PLATE (BACKHOE)	CONCRETE BUCKET 12-1YD	SPECIALTY TOOLING
CAT PIPELAYER 571	SPECIALTY LOADER	VIBRATORY PLATE (EXCAVATOR)	CONCRETE POWER TROWEL	AUTOS & TRUCKS
CAT PIPELAYER 572	PADDING & SHADING	AC ROLLER 3-5TON	CEMENT OR PLASTER MIXER	AUTO 1/2-3/4 TON PICKUP *
CAT PIPELAYER 583K	REED SCREEN RD90	AC ROLLER 5.5-7TON	CONCRETE SAW 10HP & < (EXCL. BLADES)	1 TON FLATBED TRUCK *
CAT PIPELAYER 583T	MINI PADDER	SPECIALTY COMPACTOR	CONCRETE SAW 20HP & > (EXCL. BLADES)	1 TON SERVICE/UTILITY TRUCK *
CAT PIPELAYER 587	BACKFILLER	FORKLIFT UP TO 8,000LB	WELDING	VAN *
SPECIALTY PIPELAYER	PADDING BUCKET	FORKLIFT 10,000LB	WIRE FEED ATTACHMENT	2 TON FLATBED TRUCK
BENDING MACHINES (EXCL. SHOES)	SPECIALTY PADDING/SHADING	FORKLIFT 20,000LB	ELECTRIC WELDER SINGLE	2 TON FLATBED DUMP TRUCK
BENDING MACHINE 6-20"	BORING/OUTFITS	FORKLIFT 33,000LB	LINGCOLN 9 MILLER 305 WELDER	2 TON SERVICE TRUCK
BENDING MACHINE 16-30"	AIR VAC 800GAL	FORKLIFT 55,000LB	WELD MACHINE 200-300AMP	2 TON SAND BLASTING TRUCK
BENDING MACHINE 22-36"	DIRECTIONAL DRILL 24,000LB	REACHLIFT 8,000-10,000LB	WELD MACHINE 350-500AMP	BUS
SPECIALTY BENDING MACHINE	DIRECTIONAL DRILL 50,000LB	REACHLIFT 12,000LB	ELEC. WELDER 4 PAK 350AMP	MULE
CRANES	DIRECTIONAL DRILL 80,000LB	SPECIALTY FORKLIFT	ELEC. WELDER 6 PAK 450AMP	FUEL TRUCK 1,000GAL
RT HYDRAULIC CRANE 30TON	DIRECTIONAL DRILL 120,000LB	ZOOM BOOMS	ELEC. WELDER 8 PAK 250AMP	WATER TRUCK 2,000GAL
RT HYDRAULIC CRANE 60TON	MUD SYSTEM 300GPM	ARTICULATING BOOM LIFT 60'	HYDRAULIC STRAP PULLER	DUMP TRUCK 5YD
RT HYDRAULIC CRANE 80TON	MUD SYSTEM 500GPM	ARTICULATING BOOM LIFT 80'	WELD RIG (EXCL. FUEL) *	DUMP TRUCK 10YD
TRUCK CRANE 10-16TON	DIRECTIONAL DRILL 160,000LB	ARTICULATING BOOM LIFT 125'	FAB SHOP EQUIPMENT	CONCRETE MIXING TRUCK
TRUCK CRANE 22-23TON	DIRECTIONAL DRILL 440,000LB	ARTICULATING BOOM LIFT 135'	FUSION MACHINE UP TO 4"	WATER TRUCK 4,000GAL
TRUCK CRANE 30TON	DIRECTIONAL DRILL 720,000LB	SPECIALTY ZOOM BOOM	FUSION MACHINE UP TO 8"	SWEEPER STREET
SPECIALTY CRANE	BORING 2-12" 35-45HP SELF PROP	COMPRESSORS	FUSION MACHINE UP TO 18"	SEMI-TRUCK TRACTOR
BACKHOES	BORING 8-48" (EXCL. AUGER)	AIR COMPRESSOR 15-185CFM	FUSION MACHINE UP TO 36"	6X6 TRUCK
CAT BACKHOE 420	BORING 60" (EXCL. AUGER)	AIR COMPRESSOR 200-475CFM	FUSION MACHING UP TO 48"	6X6 SAND BLASTING TRUCK
CAT BACKHOE 430	AIR HAMMER/PUNCH UP TO 3"	AIR COMPRESSOR 500-750CFM	STRESS RELIEF EQ (EXCL. CONS.)	MUD DOG VACUUM TRUCK
CAT 450/JD 710 BACKHOE	AIR HAMMER/PUNCH 4-10"	AIR COMPRESSOR 900-1200CFM	SPECIALTY WELDING	SPECIALTY TRUCKS
SPECIALTY BACKHOE	AIR HAMMER/PUNCH 12"	AIR COMPRESSOR 3400/390 H.S.	MISCELLANEOUS	TRAILERS
EXCAVATORS	AIR HAMMER/PUNCH 18"	SPECIALTY COMPRESSOR	TRAFFIC CONTROL SIGNS	CARGO CONTAINER *
CAT EXCAVATOR 315	AIR HAMMER/PUNCH 24"	GENERATORS	CROSSING PLATES/K-RAIL *	FLOAT/TILT/DUMP TRAILER
CAT EXCAVATOR 320	AIR MOTOR	GENERATOR 2.5-5KW	SHORING BEAM/PLATE *	STRETCH/RAMP TRAILER
CAT EXCAVATOR 325/329	MUD TANK & PUMP 150	GENERATOR 6-10KW	ARROWBOARD *	OFFICE/VAN TRAILER
CAT EXCAVATOR 330/336	BENTONITE PUMP	GENERATOR 15-50KW	LIGHT TOWER *	WATER TRAILER 500/800GAL
CAT EXCAVATOR 345/349	SPECIALTY BORING OUTFITS	GENERATOR 60-125KW	WATER TOWER 10,000GAL	HYDRO TEST TRAILER
CAT EXCAVATOR 385	WINCH/PIPE PULLING	GENERATOR 150-260KW	SWEEPER LAYMOR	LOWBED TRAILER
ABI PILE EXCAVATOR	HYDRAULIC WINCH 1-5TON	GENERATOR 300-450KW	LOCHINVAR BOILER	TAPPING TRAILER
CLAM BUCKET 26-42"	HYDRAULIC WINCH 10TON			SPECIALTY TRAILERS

NOTES: 1) * = 8+ HOURS MINIMUM 2) ALL EQUIPMENT IS OPERATED BY ARB, INC. ONLY 3) WELDING GASES/RODS/CERTIFICATIONS ARE EXCLUDED FROM RATES 4) MOVE ON & MOVE OFF ARE EXCLUDED FROM RATES 5) THIS RATE SHEET IS NOT ALL INCLUSIVE: ADDITIONAL CLASSIFICATIONS AVAILABLE IF REQUIRED



July 8, 2015

Attention: Michelle King, City Clerk
City of Long Beach
333 West Ocean Boulevard
Long Beach, CA 90802

michelle.king@longbeach.gov

Subject: ITB GO-15-118 G-331 - Rebid
ARB Bid Clarifications, Assumptions and Exclusions


Ms. King:

In response to your Invitation to Bid, ARB presents the following clarifications to our pricing.

- ARB unit pricing is based on light to medium type A soils. Class B&C soils are not accounted for in our pricing and will require more extensive shoring and will affect productivity. When these soils are encountered additional compensation will be negotiated.
- The handling, transport and disposal of contaminated soils and water are excluded from our pricing.
- Our unit pricing accounts for dealing with nuisance water only, dewatering operations are excluded from our pricing.
- All unit pricing is based on working in conjunction with a main installation, and are not stand alone units.
- ARB has assumed that service casing will be obstruction free on all insert work. Where obstructions are found, cost will be negotiated on a case by case basis.
- All open trench and HDD main installation units exclude labor, equipment and/or material costs to install any pressure control fittings and/or performance of any tapping or stopping of pressure control fittings
- ARB traffic control units include arrow boards, delineators, signage and barricades. Flagmen are excluded from our pricing.
- ARB pricing includes slurry seal 1-foot outside all excavations.

Thank you for the opportunity to submit this proposal. If you require further information, feel free to contact me at gdahl@arbinc.com or (949) 454-7153.

Sincerely,



Gregory S. Dahl
Vice President



EXHIBIT “B”

Contractor’s Workers’ Compensation Certification

WORKERS' COMPENSATION CERTIFICATION

In accordance with California Labor Code Sections 1860 and 3700, I certify that I am aware of the provisions of Section 3700 which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with said provisions before commencing the performance of the Work of this contract.

Contractor's Name:

ARB, Inc.

Signature of Contractor, or a corporate officer of Contractor, or a general partner of Contractor



Steve Balkcom

Title: Vice President

Date: June 9, 2015

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of MARIN)

On July 1, 2015 before me, Donna J. Frowd, Notary Public
(insert name and title of the officer)

personally appeared Debbie L. Welsh,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Donna J. Frowd

(Seal)

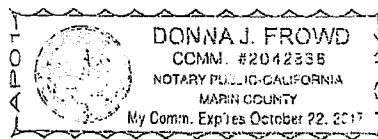


EXHIBIT "C"

Information Sheet

INFORMATION TO COMPLY WITH LABOR CODE SEC. 2810

To comply with Labor Code Sec. 2810, Contractor shall complete and submit this Information Sheet which shall be incorporated into and be a part of the Contract:

1) Workers' Compensation Insurance:

- A. Policy Number: WC2-691-463703-035
- B. Name of Insurer (NOT Broker): Liberty Mutual Fire Insurance Company
- C. Address of Insurer: 175 Berkley St., Boston, MA 02117
- D. Telephone Number of Insurer: 617-357-9500

2) For vehicles owned by Contractor and used in performing work under this Contract:

- A. VIN (Vehicle Identification Number): Fleet Insurance
- B. Automobile Liability Insurance Policy Number: AS7-C91-463703-075
- C. Name of Insurer (NOT Broker): Liberty Insurance Corporation
- D. Address of Insurer: 175 Berkley St., Boston, MA 02117
- E. Telephone Number of Insurer: 617-357-9500

3) Address of Property used to house workers on this Contract, if any: N/A

4) Estimated total number of workers to be employed on this Contract: TBD

5) Estimated total wages to be paid those workers: TBD

6) Dates (or schedule) when those wages will be paid: _____
Weekly on Friday as per Union Agreements

(Describe schedule: For example, weekly or every other week or monthly)

7) Estimated total number of independent contractors to be used on this Contract: _____
TBD - See attached list of subcontractors

8) Taxpayer's Identification Number: _____

EXHIBIT “D”

List of Subcontractors:

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" Division 2 Part 1, Chapter 4 of the California Public Contract Code, the Bidder shall set forth hereon the name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of 1 percent of the prime contractor's total bid or, in the case of bids or offers for the construction of streets or highways, including bridges, in excess of one-half of 1 percent of the prime contractor's total bid or ten thousand dollars (\$10,000), whichever is greater. The prime contractor shall set forth thereon the portion of the work (type and dollar value) that will be done by each subcontractor. The prime contractor shall list only one subcontractor for each portion as defined by the prime contractor in his or her bid. Information requested, other than the sub contractor's name and location of business and the portion of work that will be done by each subcontractor may be submitted by the prime contractor within 24 hours after the deadline for submission of bids.

Name Bill Petty's Backhoe Service, Inc. Type of Work Backhoe & Trucking
Address 13203 Barlin Ave. WBE
City Downey, CA 90242 Dollar Value of Subcontractor \$ TBD
Phone No. (562) 630-3162
License No. 960552

Name Ventura Boring Type of Work Directional Boring and Camera
Address 4115 Transport St. WBE
City Ventura, CA 93003 Dollar Value of Subcontractor \$ TBD
Phone No. (805) 642-5000
License No. 831782

Name G&F Concrete Cutting, Inc. Type of Work Saw Cut
Address 1006 E. Chestnut Ave. WMBE
City Santa Ana, CA 92701 Dollar Value of Subcontractor \$ TBD
Phone No. (714) 648-0397
License No. 590310

Name Argus Contracting Type of Work Coal Tar Wrap Removal
Address PO Box 849394
City Los Angeles, CA 90084 Dollar Value of Subcontractor \$ TBD
Phone No. _____
License No. 934189

Name Cal Boring/ California Location Service Type of Work Direction Boring, Camera, Utility Locating
Address 3030 E. Coronado St. WMBE
City Anaheim, CA 92806 Dollar Value of Subcontractor \$ TBD
Phone No. (714) 632-1596
License No. 953481

APPENDIX "A"

BOE-400-DP (FRONT) REV 2 (8-05)
**APPLICATION FOR
 USE TAX DIRECT PAYMENT PERMIT**

STATE OF CALIFORNIA
 BOARD OF EQUALIZATION

Please type or print clearly. Read instructions on reverse before completing this form.

SECTION I – BUSINESS INFORMATION

NAME OF BUSINESS OR GOVERNMENTAL ENTITY	SALES/USE TAX PERMIT NUMBER
BUSINESS ADDRESS (street)	CONSUMER USE TAX ACCOUNT NUMBER
CITY, STATE, & ZIP CODE	If applicant is applying for either a sales/use tax permit or a consumer use tax account in addition to a use tax direct payment permit check here <input type="checkbox"/>
MAILING ADDRESS (street address or po box if different from business address)	
CITY, STATE, & ZIP CODE	NAME UNDER WHICH BUSINESS IS TO BE TRANSACTED IF DIFFERENT THAN ABOVE

SECTION II – MULTIPLE BUSINESS LOCATIONS

LIST BELOW THE BUSINESS AND MAILING ADDRESSES OF ALL LOCATIONS WHERE PROPERTY PURCHASED UNDER A USE TAX DIRECT PAYMENT CERTIFICATE WILL BE USED. IF ADDITIONAL SPACE IS NEEDED, ATTACH A SEPARATE SHEET

1. BUSINESS ADDRESS	4. BUSINESS ADDRESS
MAILING ADDRESS	MAILING ADDRESS
2. BUSINESS ADDRESS	5. BUSINESS ADDRESS
MAILING ADDRESS	MAILING ADDRESS
3. BUSINESS ADDRESS	6. BUSINESS ADDRESS
MAILING ADDRESS	MAILING ADDRESS

SECTION III – CERTIFICATION STATEMENT

I hereby certify that I qualify for a Use Tax Direct Payment Permit for the following reason: (Please check one of the following)

I have purchased or leased for my own use tangible personal property subject to use tax at a cost of five hundred thousand dollars (\$500,000) or more in the aggregate, during the calendar year immediately preceding this application for the permit. I have attached a "Statement of Cash Flows" or other comparable financial statements acceptable to the Board for the calendar year immediately preceding the date of application and a separate statement attesting that the qualifying purchases were purchases that were subject to use tax.

I am a county, city, city and county, or redevelopment agency.

I also agree to self-assess and pay directly to the Board of Equalization any use tax liability incurred pursuant to my use of a Use Tax Direct Payment Permit.

The above statements are hereby certified to be correct to the knowledge and belief of the undersigned, who is duly authorized to sign this application.

SIGNATURE	TITLE
NAME (typed or printed)	DATE

(See reverse side for general information and filing instructions)

USE TAX DIRECT PAYMENT PERMIT
(General Information and Filing Instructions)

Revenue and Taxation Code section 7051.3 authorizes the State Board of Equalization to issue a *Use Tax Direct Payment Permit* to qualified applicants. This permit allows purchasers and lessees of tangible personal property (other than lessees of motor vehicles the lease of which is subject to the terms of section 7205.1 of the Sales and Use Tax Law) to self-assess and pay use taxes directly to the Board instead of to the vendor or lessor from whom the property is purchased or leased.

Permit holders will be provided with a *Use Tax Direct Payment Exemption Certificate* which they can issue to retailers and lessors when they purchase tangible personal property subject to use tax or make qualified leases of tangible personal property. Vendors who timely take the certificate in good faith from a permit holder are relieved of the duty to collect use taxes on the sales for which the certificate was issued. Permit holders who acquire property under a certificate must self-assess and report the use taxes directly to the Board on their tax returns, and allocate the local taxes to the county, city, city and county, or redevelopment agency in which the property is first used. Permit holders who fail to properly pay any use taxes that are due on property for which a certificate was given are subject to interest and penalties assessments in addition to their tax liability.

To qualify for a *Use Tax Direct Payment Permit*, an applicant must meet the following conditions:

- (1) The applicant must agree to self-assess and pay directly to the Board any use tax which is due on property for which a use tax direct payment exemption certificate was given; and
- (2) The applicant must certify to the Board either of the following:
 - (A) The applicant has purchased or leased for its own use tangible personal property subject to use tax which cost five hundred thousand dollars (\$500,000) or more in the aggregate, during the calendar year immediately preceding the application for the permit; or
 - (B) The applicant is a county, city, city and county, or redevelopment agency.

Persons wishing to obtain a use tax direct payment permit must be pre-qualified and either hold a California seller's permit or a consumer use tax account.

Persons other than governmental entities who currently hold either a California seller's permit or a consumer use tax account must complete the application for a *Use Tax Direct Payment Permit*, sign the certification statement attesting that they qualify for a permit under conditions of Part (2)(A) above, and submit a "Statement of Cash Flows" or other comparable financial statements acceptable to the board for the calendar year immediately preceding the date of application which discloses total purchases of property and equipment for own use and a separate statement under company letterhead certifying that five hundred thousand dollars (\$500,000) or more of such purchases were subject to use tax.

Persons other than governmental entities who are not required to hold a seller's permit and who do not currently hold a consumer use tax account must obtain a consumer use tax account and then complete the application for a *Use Tax Direct Payment Permit*, sign the certification statement attesting that they qualify for a permit under the conditions of Part (2)(A) above and submit a "Statement of Cash Flows" or other comparable financial statements acceptable to the board for the calendar year immediately preceding the date of application which discloses total purchases of property and equipment for own use and a separate statement under company letterhead certifying that five hundred thousand dollars (\$500,000) or more of such purchases were subject to use tax.

Governmental entities who currently hold either a California seller's permit or a consumer use tax account must complete the application for a *Use Tax Direct Payment Permit*, sign the certification statement attesting that they qualify for a permit under the conditions of Part (2)(B) above, and submit an additional statement to that effect under official letterhead and signed by an authorized governmental representative.

Governmental entities who do not hold a California seller's permit or a consumer use tax account must obtain a consumer use tax account and then complete the application for a *Use Tax Direct Payment Permit*, sign the certification statement attesting that they qualify for a permit under the conditions of Part (2)(B) above, and submit an additional statement to that effect under official letterhead and signed by an authorized governmental representative.

The completed *Application for Use Tax Direct Payment Permit*, certification statement, and qualifying documentation should be returned to the address shown below. Upon determination that the applicant qualifies, a *Use Tax Direct Payment Permit* and a *Use Tax Direct Payment Exemption Certificate* will be mailed to the applicant.

If you would like additional information regarding the *Use Tax Direct Payment Permit* or need assistance in completing this application, you can call 916-445-5167, or write to the Board of Equalization, Compliance Policy Unit, P.O. Box 942879, Sacramento, CA 94279-0040.

BOND FOR FAITHFUL PERFORMANCE

Federal Insurance Company
& Western Surety Company

KNOW ALL MEN BY THESE PRESENTS: That we, **ARB, INC., a California corporation**, as **PRINCIPAL**, and **Federal Insurance Company & Western Surety Company**, located at Federal: 15 Mountain View Road, Warren, NJ 07059 & (*), a corporation, incorporated under the laws of the State of Federal: IN / Western: SD, admitted as a surety in the State of California, and authorized to transact business in the State of California, as **SURETY**, are held and firmly bound unto the **CITY OF LONG BEACH, CALIFORNIA**, a municipal corporation, in the sum of **FIVE MILLION FIVE HUNDRED THOUSAND DOLLARS (\$5,500,000)**, lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves, our respective heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

(*)Western: 333 S. Wabash Ave., Chicago, IL 60604


THE CONDITION OF THIS OBLIGATION IS SUCH THAT:


WHEREAS, said Principal has been awarded and is about to enter the annexed contract (incorporated herein by this reference) with said City of Long Beach for the **Annual Contract for Steel Gas Pipeline Construction** and is required by said City to give this bond in connection with the execution of said contract;


NOW, THEREFORE, if said Principal shall well and truly keep and faithfully perform all of the covenants, conditions, agreements and obligations of said contract on said Principal's part to be kept, done and performed, at the times and in the manner specified therein, then this obligation shall be null and void, otherwise it shall be and remain in full force and effect;

PROVIDED, that any modifications, alterations or changes which may be made in said contract, or in the work to be done, or in the services to be rendered, or in any materials or articles to be furnished pursuant to said contract, or the giving by the City of any extension of time for the performance of said contract, or the giving of any other forbearance upon the part of either the City or the Principal to the other, shall not in any way release the Principal or the Surety, or either of them, or their respective heirs, administrators, executors, successors or assigns, from any liability arising hereunder, and notice to the Surety of any such modifications, alterations, changes, extensions or forbearances is hereby waived. No premature payment by said City to said Principal shall release or exonerate the Surety, unless the officer of said City ordering the payment shall have actual notice at the time the order is made that such payment is in fact premature, and then only to the extent that such payment shall result in actual loss to the Surety, but in no event in an amount more than the amount of such premature payment.


IN WITNESS WHEREOF, the above-named Principal and Surety have executed, or caused to be executed, this instrument with all of the formalities required by law on this 20th day of August, 2015.

ARB, Inc., a California corporation
Contractor
By: 
Name: Steve Balkcom
Title: Vice President


By: 
Name: JOHN M. Perisich
Title: Sr. Vice President

Federal Insurance Company & Western Surety Company
SURETY, admitted in California
By: 
Name: Debbie L. Welsh
Title: Attorney-in-Fact
Telephone: (415) 892-1080

Approved as to form this 31 day of Aug., 2015.

CHARLES PARKIN, City Attorney
By: 
Deputy City Attorney

Approved as to sufficiency this 4 day of September, 2015.

By: 
City Manager/City Engineer Assistant City Manager

EXECUTED PURSUANT TO SECTION 301 OF THE CITY CHARTER.

- NOTE:**
1. Execution of the bond must be acknowledged by both PRINCIPAL and SURETY before a Notary Public and a Notary's certificate of acknowledgment must be attached.
 2. A corporation must execute the bond by 2 authorized officers or, if executed by a person not listed in Sec. 313, Calif. Corp. Code, then a certified copy of a resolution of its Board of Directors authorizing execution must be attached.

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of MARIN)

On August 20, 2015 before me, Donna J. Frowd, Notary Public
(insert name and title of the officer)

personally appeared Debbie L. Welsh
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

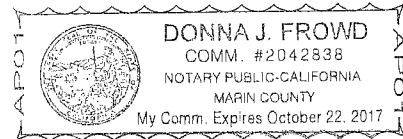
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Donna J. Frowd

(Seal)



California All-Purpose Certificate of Acknowledgement

State of California

County of Orange

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

On 8/21/15, before me, Shirl Francis, Notary Public, personally appeared **John M. Perisich**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that he foregoing paragraph is true and correct.

Witness my hand and official seal.

Shirl Francis



California All-Purpose Certificate of Acknowledgement

State of California

County of Orange

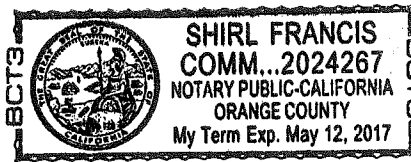
A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

On 8/21/15 before me, Shirl Francis, Notary Public, personally appeared **Steve Balkcom**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that he foregoing paragraph is true and correct.

Witness my hand and official seal.

Shirl Francis





**Chubb
Surety**

**POWER
OF
ATTORNEY**

**Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company**

**Attn: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Donna J. Frowd, Michael Brophy McGowan, Susan J. McGowan, Debbie L. Welsh and Donna L. Welsh of Novato, California

each as their true and lawful Attorney- in- Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 15th day of May, 2014.

Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

David B. Norris, Jr.

David B. Norris, Jr., Vice President



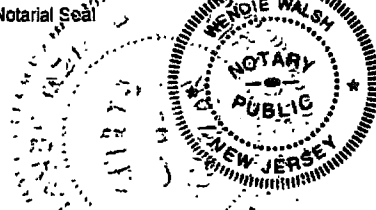
STATE OF NEW JERSEY

ss.

County of Somerset

On this 15th day of May, 2014 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By- Laws and in deponent's presence.

Notarial Seal



WENDIE WALSH
Notary Public, State of New Jersey
No. 0054504
Commission Expires April 18, 2018

Wendie Walsh

Notary Public

CERTIFICATION

Extract from the By- Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys- in- Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- (i) the foregoing extract of the By- Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, Puerto Rico, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this August 20, 2015.



Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Michael Brophy Mc Gowan, Susan J Mc Gowan, Donna L Welsh, Donna J Frowd, Debbie L Welsh, Individually

of Novato, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 24th day of June, 2015.

WESTERN SURETY COMPANY

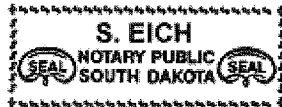


Paul T. Bruflat
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 24th day of June, 2015, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
February 12, 2021



S. Eich
S. Eich, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 20th day of August, 2015.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary

LABOR AND MATERIAL BOND

Bond Nos: Federal - 82388049
Western - 929616061
Premium: Included

KNOW ALL MEN BY THESE PRESENTS: That we, ARB, INC., a California corporation, as PRINCIPAL, and Federal Insurance Company & (*) located at Federal: 15 Mountain View Road, Warren, NJ 07059 (*), a corporation, incorporated under the laws of the State of Federal: IN / Western: SD, admitted as a surety in the State of California, and authorized to transact business in the State of California, as SURETY, are held and firmly bound unto the CITY OF LONG BEACH, a municipal corporation, in the sum of **FIVE MILLION FIVE HUNDRED THOUSAND DOLLARS (\$5,500,000)**, lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves, our respective heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

(*)Western Surety Company

(*)Western: 333 S. Wabash Ave., Chicago, IL 60604

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

WHEREAS, said Principal has been awarded and is about to enter the annexed contract (incorporated herein by this reference) with said City of Long Beach for the Annual Contract for Steel Gas Pipeline Construction is required by law and by said City to give this bond in connection with the execution of said contract;

NOW, THEREFORE, if said Principal, as Contractor of said contract, or any subcontractor of said Principal, fails to pay for any materials, provisions, equipment, or other supplies, used in upon, for or about the performance of the work contracted to be done, or for any work or labor done thereon, of any kind, or for amounts due under the Unemployment Insurance Act, during the original term of said contract and any extensions thereof, and during the life of any guaranty required under the contract, or shall fail to pay for any materials, provisions, equipment, or other supplies, used in, upon, for or about the performance of the work to be done under any authorized modifications of said contract that may hereafter be made, or for any work or labor done of any kind, or for amounts due under the Unemployment Insurance Act, under said modification, said Surety will pay the same in an amount not exceeding the sum of money hereinabove specified and, in case suit is brought upon this bond, a reasonable attorney's fee, to be fixed by the court; otherwise this obligation shall be void;

PROVIDED, that any modifications, alterations or changes which may be made in said contract, or in any of the work or labor required to be done thereunder, or in any of the materials, provisions, equipment, or other supplies required to be furnished pursuant to said contract, or the giving by the City of any extension of time for the performance of said contract, or the giving of any other forbearance upon the part of either the City or the Principal to the other, shall not in any way release the Principal or Surety, or either of them, or their respective heirs, administrators, executors, successors or assigns, from any liability arising hereunder, and notice to the Surety of any such modifications, alterations, changes, extensions or forbearances is hereby waived. No premature payment by said City to said Principal shall release or exonerate the Surety, unless the officer of the City ordering the payment shall have actual notice at the time the order is made that the payment is in fact premature, and then only to the extent that such payment shall result in actual loss to the Surety, but in no event in an amount more than the amount of such premature payment.

This Bond shall inure to the benefit of any and all persons, companies and corporations entitled by law to file claims so as to give a right of action to them or their assigns in any suit brought upon this bond.

IN WITNESS WHEREOF, the above-named Principal and Surety have executed, or caused to be executed, this instrument with all of the formalities required by law on this 20th day of August, 2015.

ARB, Inc., a California corporation
Contractor

Federal Insurance Company & Western Surety Company
SURETY, admitted in California

By: Steve Balkcom

By: Debbie L. Welsh

Name: Steve Balkcom

Name: Debbie L. Welsh

Title: Vice President

Title: Attorney-in-Fact

By: John M. President

Telephone: (415) 892-1080

Name: John M. President

Title: Sr. Vice President

Approved as to form this 31 day of Aug., 2015.

Approved as to sufficiency this 4 day of September, 2015.

CHARLES PARKIN / City Attorney
By: [Signature]
Deputy City Attorney

EXECUTED PURSUANT TO SECTION 301 OF THE CITY CHARTER.
By: [Signature] Assistant City Manager
~~City Manager / City Engineer~~

- NOTE: 1. Execution of the bond must be acknowledged by both PRINCIPAL and SURETY before a Notary Public and a Notary's certificate of acknowledgment must be attached.
2. A corporation must execute the bond by 2 authorized officers or, if executed by a person not listed in Sec. 313, Calif. Corp. Code, then a certified copy of a resolution of its Board of Directors authorizing execution must be attached.

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of MARIN)

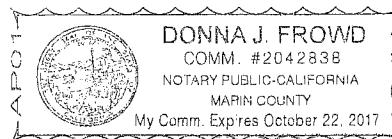
On August 20, 2015 before me, Donna J. Frowd, Notary Public
(insert name and title of the officer)

personally appeared Debbie L. Welsh
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature Donna J. Frowd (Seal)



California All-Purpose Certificate of Acknowledgement

State of California

County of Orange

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

On 8/21/15, before me, Shirl Francis, Notary Public, personally appeared **John M. Perisich**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that he foregoing paragraph is true and correct.

Witness my hand and official seal.

Shirl Francis



California All-Purpose Certificate of Acknowledgement

State of California

County of Orange

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

On 8/21/15 before me, Shirl Francis, Notary Public, personally appeared **Steve Balkcom**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that he foregoing paragraph is true and correct.

Witness my hand and official seal.

Shirl Francis





**Chubb
Surety**

**POWER
OF
ATTORNEY**

**Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company**

**Attn: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Donna J. Frowd, Michael Brophy McGowan, Susan J. McGowan, Debbie L. Welsh and Donna L. Welsh of Novato, California

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 15th day of May, 2014.

Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

David B. Norris, Jr.

David B. Norris, Jr., Vice President



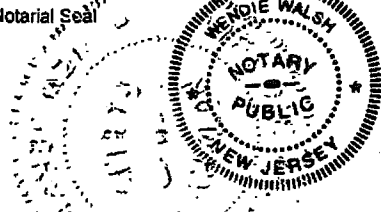
STATE OF NEW JERSEY

ss.

County of Somerset

On this 15th day of May, 2014 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that she is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that she signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that she is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal



WENDIE WALSH
Notary Public, State of New Jersey
No. 0054504
Commission Expires April 18, 2018

Wendie Walsh

Notary Public

CERTIFICATION

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, Puerto Rico, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this August 20, 2015.



Dawn M. Chloros

Dawn M. Chloros, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903-3493 Fax (908) 903-3656 e-mail: surety@chubb.com

Authorizing By-Law

ADOPTED BY THE SHAREHOLDERS OF WESTERN SURETY COMPANY

This Power of Attorney is made and executed pursuant to and by authority of the following By-Law duly adopted by the shareholders of the Company.

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, and Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Michael Brophy Mc Gowan, Susan J Mc Gowan, Donna L Welsh, Donna J Frowd, Debbie L Welsh, Individually

of Novato, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 24th day of June, 2015.



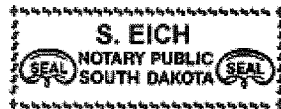
WESTERN SURETY COMPANY

Paul T. Bruflat
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 24th day of June, 2015, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
February 12, 2021



S. Eich
S. Eich, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 20th day of August, 2015.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
07/14/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER MCGRIFF, SEIBELS & WILLIAMS OF TEXAS, INC. 818 Town & Country Blvd, Suite 500 Houston, TX 77024-4549	CONTACT NAME: Michael Colee	
	PHONE (A/C, No. Ext): 713-877-8975	FAX (A/C, No): 713-877-8974
E-MAIL ADDRESS:		INSURER(S) AFFORDING COVERAGE
INSURED ARB, Inc. 26000 Commercentre Drive Lake Forest, CA 92630		INSURER A : Liberty Mutual Fire Insurance Company INSURER B : LM Insurance Corporation INSURER C : Liberty Insurance Corporation INSURER D : Commerce and Industry Insurance Company INSURER E : Chartis Specialty Insurance Company INSURER F :
		NAIC # 23035 33600 42404 19410 26883

APPROVED AS TO SUFFICIENCY
 Michael Colee
 RISK MANAGER
 CITY OF LONG BEACH
 DATE: 7/21/15

COVERAGES **CERTIFICATE NUMBER:** N2W373HJ **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
C	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			TB7-C91-463703-065	02/28/2015	02/28/2016	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 2,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
C	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			AS7-C91-463703-075	02/28/2015	02/28/2016	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Physical Damage Ded. 5,000
D	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			BE18255655	02/28/2015	02/28/2016	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
A B C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N N	WC2-691-463703-035 WA5-C9D-463703-045 WC5-C91-463703-055 EW5-69N-463703-025 TX/LA SIR: \$250,000 EW7-69N-463703-015 CA SIR: \$250,000	02/28/2015	02/28/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Contractor's Pollution Liability			CPO 1238582	02/28/2014	02/28/2016	Each Loss \$ 2,000,000 Aggregate \$ 2,000,000 Deductible \$ 250,000 \$ \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: ARB Job #1339502

In the event of cancellation by the insurance companies the policies have been endorsed to provide (90) days Notice of Cancellation (except for non-payment) to the Certificate Holder shown below. The City of Long Beach, and its board, officials, employees and agents are included as Additional Insureds as respects the General Liability and Auto Liability. A Waiver of Subrogation applies in favor of The City of Long Beach, and its board, officials, employees and agents as respects the General Liability, Auto Liability and Workers' Compensation. General Liability and Auto Liability are Primary and Non-Contributory. All as required by written contract and subject to policy terms, conditions and exclusions.

CERTIFICATE HOLDER

CANCELLATION

City of Long Beach - G331 Attn: Gary Grewal 2400 E. Spring Street Long Beach, CA 90806	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

AGENCY CUSTOMER ID: _____

LOC #: _____



ADDITIONAL REMARKS SCHEDULE

PRODUCER MCGRIFF, SEIBELS & WILLIAMS OF TEXAS, INC.		INSURED ARB, Inc.	
POLICY NUMBER			
CARRIER	NAIC CODE	ISSUE DATE: 07/14/2015	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: _____ FORM TITLE: _____

Professional Liability Policy No. EOC 948566604
Effective 06/15/2015-06/15/2016
Steadfast Insurance Company
\$3,000,000 Each Claim/Aggregate Limit
\$250,000 SIR Each Claim

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED INSURED FOR COVERED AUTOS LIABILITY COVERAGE

This endorsement modifies insurance provided under the following:

- AUTO DEALERS COVERAGE FORM
- BUSINESS AUTO COVERAGE FORM
- MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" for Covered Autos Liability Coverage under the Who Is An Insured provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

SCHEDULE

Name Of Person(s) Or Organization(s):
City of Long Beach, and its boards, officials, employees, and agents
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Each person or organization shown in the Schedule is an "insured" for Covered Autos Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured provision contained in Paragraph **A.1.** of Section **II** - Covered Autos Liability Coverage in the Business Auto and Motor Carrier Coverage Forms and Paragraph **D.2.** of Section **I** - Covered Autos Coverages of the Auto Dealers Coverage Form.

APPROVED AS TO SUFFICIENCY
Michael Oles
 CITY OF LONG BEACH
 DATE: 7/21/15

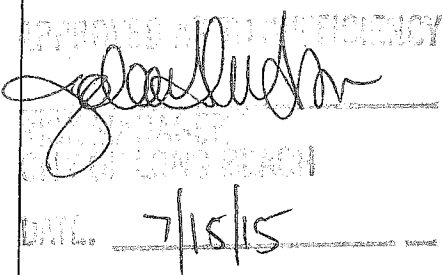
THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location(s) Of Covered Operations
City of Long Beach, and its boards, officials, employees, and agents	 <p>APPROVED BY AUTHORITY <i>[Signature]</i> CITY OF LONG BEACH DATE: 7/15/15</p>
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

This endorsement is executed by the LIBERTY INSURANCE CORPORATION

Premium \$

Effective Date

Expiration Date

For attachment to Policy No. TB7-C91-463703-065

Audit Basis

Issued To

Countersigned by

Authorized Representative

Issued

Sales Office and No.

End, Serial No.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s):	Location And Description Of Completed Operations
City of Long Beach, and its boards, officials, employees, and agents	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

Section II – Who is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

This endorsement is executed by the LIBERTY INSURANCE CORPORATION

Premium \$
Effective Date Expiration Date
For attachment to Policy No. TB7-C91-463703-065
Audit Basis
Issued To

APPROVED TO SUPERVISORY
Michael Oliver
CITY OF LONG BEACH
DATE: 7/21/15

Countersigned by

[Signature]
Authorized Representative

Issued

Sales Office and No.

End. Serial No.