

DELIVERY: 500 Pier "A" Street, Berth 161
Wilmington, CA 90744

TRANSMITTAL NO. 1

Contract No. 39628

1. COMPLETE CONTRACT

This entire Bid Request shall become the contract upon its execution by the Executive Director on behalf of the Harbor Department of the City of Los Angeles. The complete contract shall consist of the entire Bid (including Specifications), this page and the reverse side, any addendums and when required, CONTRACTOR'S BOND. Contractor will be provided with a copy of the executed contract.

2. GOODS AND SERVICES TO BE PROVIDED BY THE CONTRACTOR

The Contractor agrees, upon acceptance of this offer by the City, to furnish the goods and services herein specified according to the terms and conditions as set forth herein.

3. AMOUNT TO BE PAID

The City agrees to pay the contractor for the goods or services in the manner described in the paragraph entitled "PAYMENTS" on the reverse side of this form. Unless otherwise indicated by the Bidder, remittance by the City for goods or services will be made to the address below.

4. CHOICE OF ALTERNATIVE PROVISIONS; OPTIONS; NOTIFICATION

When alternative provisions are requested, or options are offered, the contractor will be notified as to which provision, or option, is being accepted when notification is sent that the Contractor is the successful bidder.

5. DECLARATION OF NON-COLLUSION

The undersigned certifies (or declares) under penalty of perjury that this bid is genuine and not sham or collusive, or made in the interest or on behalf of any person, firm, or corporation not herein named; that the bidder has not directly or indirectly induced or solicited any other bidder to put up a sham bid, or any other person, firm or corporation to refrain from bidding, and that the bidder has not in any manner sought by collusion to secure any advantage over other bidders.

6. LEGAL JUSTIFICATION

This agreement shall be deemed entered into in Los Angeles, California, and shall be governed and construed in accordance with the laws of the State of California.

EXECUTED AT: Kent, Washington ON THE 22nd DAY OF March, 2012
City, State Date Month Year

BIDDER MUST COMPLETE AND SIGN BELOW:

Firm Name American Piledriving Equipment

Phone 209-942-2166 Fax 209-942-2455

Address 2985 Loomis Rd, Stockton CA 95205

Signature [Handwritten Signature] Printed Name John White Printed Title President

Signature [Handwritten Signature] Printed Name Dan Collins Printed Title CFO

(AFFIX CORPORATE SEAL HERE)

- a) Two signatures: One by Chairman of Board of Directors, President, or a Vice-President and one by Secretary, Assistant Secretary, Chief Financial Officer or ar Assistant Treasurer.
- b) One signature by corporate designated individual together with properly attested resolution of Board of Directors authorizing person to sign.

NOTARIZATION: Bids executed outside the State of California must be sworn to and notarized below.

County of King
State of WA S.S.
Subscribed and sworn this date
23rd day of March, 2012
[Handwritten Signature]
Notary Seal Signature

In witness whereof the Board of Harbor Commissioners of the City of Los Angeles has caused this contract to be executed by the Executive Director of the Harbor Department of said City and said Contractor has executed this contract the day and year written below.
By _____
Executive Director Harbor Department
Date _____

Approved as to Form
3/29, 2012
City Attorney
BY [Handwritten Signature] Deputy

FORMAL REQUEST FOR BID

**CITY OF LOS ANGELES
HARBOR DEPARTMENT**

BID NO. F-783

<p style="text-align: center;">SUBMIT BID TO :</p> <p>By Hand: Los Angeles Harbor Department Purchasing Office, 1st Floor 500 Pier A Street Wilmington, CA 90744</p> <p>By Mail: Los Angeles Harbor Department Purchasing Office P. O. Box 786 Wilmington, CA 90748</p>	<p>BID DUE BEFORE 2:00 P.M. March 5, 2012</p>
<p>Buyer: Michelle Johnson, <i>MJ 2-16-12</i> Procurement Supervisor (310) 732-3890</p>	<p>BIDS WILL BE PUBLICLY OPENED</p>

ALL ITEMS REQUESTED MAY BE QUOTED AS OR EQUAL.
AFFIRMATIVE ACTION - AN APPROVED AA PLAN OR CERTIFICATION, IF NOT ON FILE, WILL BE REQUIRED PRIOR TO AWARD OF CONTRACT.

QUANTITY AND UNIT	ITEMS and DESCRIPTION	UNIT PRICE QUOTED	EXTENSION
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1. 1 EA EA \$ 145,450⁰⁰ \$ 145,450⁰⁰

Hydraulic impact hammer shall be complete and ready for operation including infinity variable stroke setting, full length 26" hammer lead guides, Type "A" drive base, DCT Timber pile insert, Timber Boot for flying hammer operation, 150' hydraulic hose bundle and 50' remote electric control pendant APE Model 7.5c, in accordance with attached Specification No. VH-2011-12.

State Brand and Product No. Quoting: APE model 7.5C Hydraulic Impact Hammer

2. 1 LOT Lump Sum \$ 2,800⁰⁰

Delivery, not to exceed

3. 1 EA EA \$ 387,500⁰⁰ \$ 387,500⁰⁰

Vibratory driver/ extractor (rated at 2,250inlbs) (77 ton line pull capacity with patented two stage suppressor) shall be complete and ready for operation including model 375 power unit (C9 ACERT Cat rated at 375hp - Tier 4 Certified), model 20 Timber Clamp, model 150 Universal Clamp, 150' hydraulic hose bundle and 50' remote electric control pendant with Travel stand, equipped with a fuel totalizer from Floscan APE Model 170VM, in accordance with attached Specifications No. VH-2011-12.

State Brand and Product No. Quoting: APE model 170VM vibratory driver extractor

4. 1 LOT Lump Sum \$ 2,800⁰⁰

Delivery, not to exceed

REQ. NO.: E-120495
NOTIFY: Steve Mangold
2/16/12 MJ:bh
PAGE 2

STATE TIME OF DELIVERY: 60 DAYS AFTER RECEIPT OF ORDER
TERMS: 0 DISCOUNT FOR PAYMENT WITHIN 10 DAYS.
BIDDER MUST SIGN THIS BID ON PAGE 1

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HARBOR DEPARTMENT

BID NO. F-783
(SHOW THIS NUMBER ON ENVELOPE)

BID DUE BEFORE 2:00 PM ON: March 5, 2012

NOTE: The successful vendor will be required to include a freight bill excluding in-bound shipping charges.

AUTHORIZED DISTRIBUTOR/DEALER:

Bidder must indicate if it is an authorized factory distributor/dealer for the manufacturer being quoted (please initial).

Yes: SC No: _____

If bidder is not an authorized distributor/dealer, the bidder shall submit with its Quotation a formal Letter of Certification from the manufacturer, stating that the manufacturer will honor any warranty claims by the City for equipment, parts, and/or materials provided by the bidder.

The manufacturer will be responsible for any default of the supplier that is not corrected by the supplier in a timely and efficient manner. This responsibility includes replacing incorrect or defective parts, trouble shooting, and correcting problems that are traceable to the manufacturer.

ILLUSTRATIVE AND TECHNICAL DATA. When quoting other than the specified brand or when no brand is indicated, Bidder must submit with bid, complete illustrative and technical data on materials or equipment proposed to be furnished. Failure to furnish such data may void bid.

SPECIFICATION CHANGES. If provisions of the Specifications preclude bidder from submitting bid, he may request in writing that the specifications be modified. Such request must be received by the Purchasing Officer at least five (5) working days before bid opening date. All bidders will be notified by Addendum of any approved changes in the specifications.

DEVIATION FROM SPECIFICATIONS. Specifications contained herein are to describe the construction, design, size, and quality of the desired product and are not intended to be restrictive to any particular product. If bidder proposes to furnish another product equal in quality and purpose, such bids will be considered as long as they materially comply with the specifications. Each deviation from the specifications must be stated in a letter, attached to bidder's submittal. Failure to do so may void bid.

WARRANTY. Terms of warranty on equipment offered. Free PARTS & SERVICE (LABOR) for defective parts and workmanship for the following time period after equipment has been accepted:

Standard APE/cat 2-year warranty.

NEW AND UNUSED. The equipment furnished shall be new and unused, current model.

SAFETY AND HEALTH REQUIREMENTS. All equipment, materials, procedures and services furnished and/or used by the Contractor shall comply with applicable current requirements of OSHA and CAL-OSHA. Contractor agrees to indemnify and hold harmless Los Angeles City, The Harbor Department, and agents, officers and employees thereof, for all damages assessed against them as a result of Contractor's failure to comply with said safety and health requirements.

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SAFETY APPROVAL. Electrical items listed herein shall have UNDERWRITER'S LABORATORY OR LOS ANGELES CITY ELECTRICAL TESTING LABORATORY approval and meet all current OSHA and CAL-OSHA requirements, where applicable.

DELIVERY POINT. Prices to include all delivery charges, F.O.B. the Harbor Department, Berth 161, Wilmington, CA 90744.

DELIVERY. Delivery is desired within 10 days after vendor receives order. If this time cannot be met, show in the space provided on the Bid Sheet the best delivery time you can guarantee. The Harbor Department reserves the right to make award based on delivery time quoted.

BILLING DISCOUNT TERMS. Billing Discount terms offering 20 days or more will be considered in making evaluation for award.

SALES TAXES. Do not include Sales Taxes in your Bid. Sales Taxes will be added at time of order.

SALES TAX PERMIT. Vendor's California State Board of Equalization Permit No. required to collect California State Sales Tax. Permit Number: 99717849

VENDOR PAYMENT. Please note. Vendor name and address must be submitted exactly as it will appear on the invoice. If invoice remit to (remittance) name and address are different from the bid name and address, please indicate:

REMIT TO: NAME: American Piledriving Equipment, Inc.
ADDRESS: P.O. Box 88730 Seattle, wa 98138
Phone 253-872-0141 Fax. 253-872-8710

Invoices submitted for payment where the invoice name and address does not match the name as it appears on the purchase order or as indicated in the space above, will not be processed and will be returned to the vendor.

BID SUBMITTAL TIMELINESS

Bidders solely are responsible for the timeliness of their submittals. As such, bidders are cautioned to budget adequate time to ensure that their bids are delivered at the location designated at or before the deadline set forth above. Bidders are cautioned that matters including, but not limited to, traffic congestion, security measures and/or events in or around the Harbor Department, may lengthen the amount of time necessary to deliver the bid, whether the bid is submitted in person or by mail.

SUPPLIER CONTACT INFORMATION:

Contact Person: Steve Cress

Title: West Coast Sales manager

FORMAL REQUEST FOR BID

CITY OF LOS ANGELES
HARBOR DEPARTMENT

BID NO. F-783
(SHOW THIS NUMBER ON ENVELOPE)

BID DUE BEFORE 2:00 PM ON: March 5, 2012

Telephone No.: office 209-942-2166 mobile 925-864-8268

Fax No.: 209-942-2455

E-Mail Address: stevec @ APEvibro. Com

24 Hour Contact No.: 925-864-8268

COMPLIANCE WITH LAWS. Vendor shall comply with all applicable Ordinances, laws, Rules and Regulations of the City and of any County, State or Federal Government, or subdivision thereof.

DEFAULT BY SUPPLIER. In case of default by Vendor, the City reserves the right to procure the articles or services from other sources and to hold the vendor responsible for any excess costs occasioned to the City thereby.

ENVIRONMENTAL MANAGEMENT SYSTEM

The Los Angeles Harbor Department (Port) is committed to managing resources and conducting Port development and operations in both an environmentally and fiscally responsible manner. The Port will strive to improve the quality of life and minimize the impacts of its development and operations on the environment and surrounding communities through the continuous improvement of its environmental performance and the implementation of pollution prevention measures, in a feasible and cost effective manner that is consistent with the Port's overall mission and goals, as well as with those of its customers and the community. To ensure this policy is successfully implemented the Port will develop an environmental management program that will:

1. Ensure this environmental policy is communicated to Port staff, its customers, and the community;
2. Ensure compliance with all applicable environmental laws and regulations;
3. Ensure environmental considerations are included in planning, property, financial, developmental, and operational decisions, including feasible and cost effective options for exceeding applicable requirements;
4. Define and establish environmental objectives, targets, and best management practices and monitor performance;
5. Ensure the Port maintains a Customer Outreach Program to address common environmental issues; and
6. Fulfill the responsibilities of each generation as trustee of the environment for succeeding generations through environmental awareness and communication with employees, customers, regulatory agencies, and neighboring communities.

The Port is committed to the spirit and intent of this policy and the laws, rules and regulations, which give it foundation.

ETHICS CLAUSE

Persons who submit a response to this solicitation (bidders) are subject to Charter section 470(c)(12) and related ordinances. As a result, bidders may not make campaign contributions to and or engage in fundraising for certain elected City officials or candidates for elected City office from the time they submit

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the response until either the contract is approved or, for successful bidders, 12 months after the contract is signed. The bidder's principals and subcontractors performing \$100,000 or more in work on the contract, as well as the principals of those subcontractors, are also subject to the same limitations on campaign contributions and fundraising.

Bidders must submit CEC Form 55 (provided in Appendix) to the awarding authority at the same time the response is submitted. The form requires bidders to identify their principals, their subcontractors performing \$100,000 or more in work on the contract, and the principals of those subcontractors. Bidders must also notify their principals and subcontractors in writing of the restrictions and include the notice in contracts with subcontractors. Responses submitted without a completed CEC Form 55 shall be deemed nonresponsive. Bidders who fail to comply with City law may be subject to penalties, termination of contract, and debarment. Additional information regarding these restrictions and requirements may be obtained from the City Ethics Commission at (213) 978-1960 or ethics.lacity.org.

BUSINESS TAX REGISTRATION CERTIFICATE (BTRC). In accordance with the City of Los Angeles Municipal Code, a Business Tax Registration Certificate may be required of persons engaged in business activity within the City. The Office of Finance, Tax and Permit Division, (213) 473-5901, has sole authority in determining a firm's tax requirements and in issuing Business Tax Registration Certificates or Business Tax Exemption Numbers. Accordingly, firm's current Business Tax Registration Certificate or Business Tax Exemption Number must be clearly shown on all invoices submitted for payment. Bidder, in submitting this bid, acknowledges and accepts the above requirements and recognizes that no invoice will be processed for payment without inclusion of the Business Tax Registration Certificate or Business Tax Exemption Number.

TAXPAYER IDENTIFICATION NUMBER. Contractor declares that it has an authorized Taxpayer Identification Number (TIN), which must be indicated on all invoices. No payments will be made under this agreement without a valid TIN number.

SPECIAL NOTE. If you are not bidding, please state reason for not bidding and return bid to the Purchasing Office: _____

GENERAL CONDITIONS
READ CAREFULLY

1. **FORM OF BID AND SIGNATURE.** The Bid must be made on this form only, and is limited to the Terms and Conditions contained herein, unless expressly agreed otherwise in writing by the City. No telephonic or facsimile bid is acceptable, unless otherwise indicated. Bid should be enclosed in a sealed envelope, showing the Bid No. in the lower left corner, and addressed to the Port of Los Angeles Purchasing Division, 500 Pier "A" Street, P. O. Box 786, Wilmington, CA 90748. Bids must be signed with the firm's corporate name or DBA and by a responsible officer or authorized employee. In case of error in extension of prices, unit price will govern. All prices must be firm unless the specification provides for adjustment.
2. **TAXES:** Do not include any Sales or Federal Excise Tax in prices unless the specifications specifically require that they be included. Sales tax will be added by the City at time of award. The City will furnish Federal Excise Tax Exemption Certificate to Supplier. Any other taxes must be included in bid prices.
3. **SPECIFICATION CHANGES.** Bidder may request in writing that specifications be modified if its provisions restrict bidder from bidding. Such request must be received by the Director of Purchasing at least five (5) working days before bid opening date. All bidders will be notified by Addendum of any approved changes in the specifications.
4. **BRAND NAMES AND SPECIFICATIONS.** The detailed specifications and/or brand name references are descriptive and indicate quality, design, and construction of items required. Offers will be considered to supply articles substantially the same as those described therein but with minor variations. Bidder must describe variations in their Bid.
5. **AWARD OF CONTRACT.** Bid shall be subject to acceptance by the City for a period of three (3) months unless a lesser period is prescribed in the quotation by the bidder. The City may make combined award of all items complete to one bidder or may award separate items to various bidders. Bidders may submit alternate prices, a lump sum or a discount conditional on receiving an award for two or more items. The right is reserved to reject any, or all, bids and to waive informality in bids.
6. **PURCHASE AGREEMENT.** A copy of the Bid, Specifications and General Conditions will remain on file in the Purchasing Office. All material or services supplied by the Contractor shall conform to the applicable requirements of the City Charter, City Ordinances, and all applicable State and Federal Laws, as well as conforming to the Specifications, Terms and Conditions contained herein.
7. **PRICE GUARANTEE.** If during the term of any agreement awarded pursuant to this Bid, the supplier sells the same materials or services under similar quantity and delivery conditions, at prices below those stated herein, such lower prices are to immediately be extended to the City.
8. **DEFAULT BY SUPPLIER.** In case of default by supplier, the City reserves the right to procure the articles or services from other sources and to hold the supplier responsible for any excess costs incurred by the City.
9. **PAYMENTS.** Payment terms are NET 30 days unless bidder quotes otherwise. Cash discounts allowing less than 20 days or 20th Proxima will not be considered by the City when evaluating Bids. All Cash Discounts are computed from the date of delivery in full or completion and acceptance of the work or material, or from date of receipt of invoice, whichever is latest. Partial payments may be made by the City on delivery and acceptance of goods and on receipt of vendor's invoice. Invoices must be submitted as specified on the Purchase Order or Notice to Proceed.
10. **ASSIGNMENT.** The supplier shall not assign or transfer by operation of law any obligation without the prior written consent of the Director of Purchasing.
11. **NONDISCRIMINATION.** During the performance of this contract the contractor shall not discriminate in employment practices against any employee or applicant for employment because of the employee's race, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition in accordance with L.A. Admin. Code Sections 10.8 to 10.13, whose provisions are incorporated herein. All subcontracts awarded under any such contract shall contain a like nondiscrimination provision.
12. **SAFETY APPROVAL.** Articles supplied under this contract will not be accepted unless they comply with current safety regulations of the City Department of Building and Safety, U.L., the Safety Orders of the California Division of Occupation Safety and Health (Cal/OSHA) and OSHA requirements.
13. **PREVAILING WAGES.** Where labor is required for public work as a part of this contract, pursuant to the provisions of the Labor Code of the State of California, contractor shall pay no less than the general prevailing wages for the area as determined by the Director of the Department of Industrial Relations, State of California. Copy of wage schedule is obtainable from the Office of the Board of Public Works City Hall, Los Angeles.
14. **CONTRACTOR'S LIABILITY.** The contractor agrees to, at all times, relieve, protect, save harmless, and fully indemnify the City of Los Angeles, its officers, agents and employees from any and all liability whatsoever that may arise or be claimed by reason of any acts of said contractor, contractor's employees and agents, in connection with the work to be performed under the contract.
15. **PATENT RIGHTS.** The person, firm, or corporation, upon whom this order is drawn, does, in case the materials or supplies to be furnished are covered wholly or in part by U.S. Letters Patent, by the acceptance of this order agree to indemnify and hold the City of Los Angeles harmless from any and all injuries or damage which the City may sustain by reason of the sale to or use by it of such materials or supplies and arising out of the alleged or actual infringement of said letters patent.
16. **LEGAL JUSTIFICATION.** This agreement shall be deemed entered into in Los Angeles, California, and shall be governed and construed in accordance with the laws of the State of California.
17. **TERMINATION FOR NON-APPROPRIATION.** The Harbor Department of the City of Los Angeles' (City's) obligation to pay any amount hereunder, for any City fiscal year after the current fiscal year is contingent upon City's appropriation of funds for that purpose. The City's fiscal year ends on June 30th of each calendar year. Accordingly, anything to the contrary notwithstanding, the City may terminate this contract and future monetary obligations hereunder as of the end of any fiscal year.

THE END

- **DESCRIPTION: HYDRAULIC PILE DRIVING AND EXTRACTING SYSTEM, COMPRISED OF THE EQUIVALENT TO AMERICAN PILE DRIVING EQUIPMENT (APE) MODEL 375 HYDRAULIC POWER UNIT; MODEL 170VM VIBRATORY EXTRACTOR; AND MODEL 7.5C LOW HEADROOM HYDRAULIC IMPACT HAMMER**

GENERAL: It is the intent of this specification to describe in a general form the requirements of the equipment and options desired. This is being specified as a complete system, individual components will not be considered separately. Equipment of equal dimensions, performance and capability, but differing in detail from the specification may be considered providing it meets the intent of the specifications. When specifications for a particular item(s) are not defined, the manufacturer's standards are satisfactory. Please note that construction materials, design considerations and size of components as stated in the attached specification are critical rating factors.

Bidder must indicate with a check mark, in the spaces provided, after each item, if they COMPLY with the specifications for that item. If they do not comply, each deviation must be described in the space that follows. If insufficient space, indicate "see attached" and describe all deviations on an attachment to the bid. Make sure all deviations are labeled to identify the item for which the deviation is taken. A cover letter must be included indicating that deviations to the specifications are in a separate attachment to the bid. Failure to properly complete this required information may result in bid being rejected as non-responsive.

<p>ITEM REQUESTED: The intent of this specification is to describe in general a complete hydraulic pile driving and extracting system.</p> <ol style="list-style-type: none">1. Shall be complete with all standard equipment described in manufacture's published literature as well as special accessories described herein.2. Shall be completely serviced and ready for use prior to inspection and delivery.3. Equipment of equal dimensions, performance and capability, but differing in detail from the specification may be considered providing it meets the intent of the specification.4. Bidders offering alternate equipment shall submit complete detailed information on the unit offered in order that a thorough analysis can be made of the bid. When specifications for particular item(s) are not defined, manufacturer's standards are satisfactory.	<p>Comply: (✓) Deviation:</p>
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December 14, 2011
VERSION NO. _

HARBOR DEPARTMENT
SPECIFICATION NO.

- **DESCRIPTION: HYDRAULIC PILE DRIVING AND EXTRACTING SYSTEM, COMPRISED OF THE EQUIVALENT TO AMERICAN PILE DRIVING EQUIPMENT (APE) MODEL 375 HYDRAULIC POWER UNIT; MODEL 170VM VIBRATORY EXTRACTOR; AND MODEL 7.5C LOW HEADROOM HYDRAULIC IMPACT HAMMER**

HYDRAULIC POWER UNIT:

1. APE Model 375 Power Unit
2. Engine: Caterpillar C9 Tier III
3. Power: 375 hp (510.2 kW)
4. Drive pressure: 0-4500 psi (310.26 bar)
5. Drive flow: 120 gpm (31.7 lpm)
6. Weight: 12600 lbs (5715.26 kg) Maximum
7. Length: 126.5 in (321.31 cm) Maximum
8. Width: 68.5 in (173.99 cm) Maximum
9. Height: 82 in (208.28) Maximum
10. Floscan brand - Non resettable fuel totalizer
11. Must have stainless steel control panels, stainless steel door latches and heavy duty stainless steel door hinges.
12. Must have a 55 gallon spare hydraulic tank built in with appropriate spill containment to meet all applicable regulations.
13. Must use a "Kidney Loop" type cooling system to allow for continuous cooling of the vegetable hydraulic oil while the power unit is running.
14. Variable flow in both directions for use with drills winches and other specialized attachments
15. Must use the highest quality non-petroleum based hydraulic oil with the Envirologic 146 vegetable hydraulic oil that is NON-TOXIC, BIO-DEGRADABLE
16. Oversized radiator and hydraulic oil cooler
17. Must equip power unit with dual controls on pendant and control panel.

Comply:

Deviation:

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HYDRAULIC IMPACT HAMMER:

1. APE Model 7.5c Low Headroom
2. Ram Weight: 3,446 kg (7,600 lb) +/- 100 lb
3. Maximum stroke: 61 cm (24 in)
4. Rated energy @ maximum stroke: 20.6 kNm (15,200 ft-lb) +/- 100 ft-lb
5. Blow Rate Capability: 40-75 per minute
6. Minimum energy @ minimum stroke: 3.3 kNm (2,500 ft-lb) +/- 100 ft-lb
7. Minimum stroke: 10 cm (4 in)
8. Weight of hammer with pipe insert Maximum: 5,714 kg (12,600 lb)
9. Complete operating length with optional drive base and insert Maximum: 274 cm (108 in)
10. Standard lead size: 8 x 26 in box lead
11. Hydraulic hose length: 30 m (100 ft)
12. Low Head Room tolerance. 7'-6" tall max for headroom to work with on longer pile.
13. Must be configured using direct drive technology to deliver the maximum energy to the pile.
14. Must be configured with a low center of gravity to keep the hammer balanced on top of the pile with no leads.
15. Must be capable of driving in low headroom application as well as full length pile capability.
16. Must be provided with any attachments needed to be configured to operate while suspended from crane block,

Comply:

Deviation:

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forklift, and excavator applications.

17. Fully controllable dual controls on pendant and control panel.
18. Remote Pendant to be configured to allow the setting of the energy level at the desired stroke setting and shall be infinitely variable with precise adjustments from one inch of stroke to the full stroke height
19. Must be designed with four column design technology.
20. Must be configured with built in Teflon ram bearings to reduce ram drag.
21. The hydraulic impact hammer must be configured to operate off of supplied hydraulic power unit as well as from excavator hydraulics for mobile applications.

VIBRATORY EXTRACTOR:

1. APE Model 170VM
2. Eccentric Movement: 2250 in-lb (25.92 kgm)
3. Drive Force Capability: 112 tons (996.4 kN) +/- 1 Ton
4. Frequency Maximum (VPM): 0 – 2300 vpm
5. Line Pull Capability: 77 Tons (685.03 kN) +/- 1 Ton
6. Suspended Weight w/o clamp: 8900 lbs (4036.97 kg) Maximum
7. Throat Width: 14 in (35.56 cm) Maximum
8. Length: 69 in (175.26 cm) Maximum
9. Height w/o clamp: 77 in (195.58 cm) Maximum
10. All equipment to be X-Ray inspected with engineering

Comply:

Deviation:

- **DESCRIPTION: HYDRAULIC PILE DRIVING AND EXTRACTING SYSTEM, COMPRISED OF THE EQUIVALENT TO AMERICAN PILE DRIVING EQUIPMENT (APE) MODEL 375 HYDRAULIC POWER UNIT; MODEL 170VM VIBRATORY EXTRACTOR; AND MODEL 7.5C LOW HEADROOM HYDRAULIC IMPACT HAMMER**

documents of stability for use.

11. Must have two stage suppressor for soft starts and stops to eliminate boom shake
12. Must have 77 tons of line pull capacity
13. Must have a travel stand for handling and hauling.
14. Must use spherical bearings
15. Must use tungsten inserts in the eccentric counter weights to reduce size/weight ratio.
16. Must use heavy duty one-piece helical cut gear/ eccentrics to reduce gear chatter and one piece eccentrics to eliminate failures due to broken bolts and sheared alignment keys.
17. Must use a rifle bored top plate to reduce the use of hydraulic hoses.
18. All hydraulic hoses must be Gates brand, abrasion resistant "MegaTuff" style, heavy-duty hydraulic hoses.
19. Must come equipped with a variable shift type phase shifter with helical cut gears for smooth phase shifting.
20. The variable shift type phase shifter application must be able to be applied manually to allow the operator to dial in the desired energy needed to drive or extract the pile without overstressing the pile and to eliminate boom shake.
21. The variable shift type phase shifter application must be able to be applied in an auto mode that automatically phases the eccentrics in when the vibratory extractor is started and automatically phases the eccentrics out when the vibratory extractor is stopped to eliminate boom shake.
22. Must have a universal clamp that has built in check valves for safety with application for use on sheet pile,

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H-pile and pipe pile

23. Must come with the "Dunce Jaw" type inserts.
24. Center safety pin that shows pile crew and crane operator how much line pull is on pile and crane.
25. Must have detachable suppressor housings to fit any height and weight requirements.
26. Must have Heavy duty one piece clamp cylinder with built in check valve for safely.

ELECTRICAL: Shall be a twenty-four (24) volt negative ground type system.

1. Shall have all new wiring.
2. All wiring that is exposed shall be installed in flexible, non-metallic loom with crimped connectors and all properly insulated.
3. All wiring shall be of adequate size to carry designed electrical load without excessive voltage drop.
4. All wiring passing through partitions or bulkheads shall have rubber grommets at those points to protect from chaffing.
5. All wiring shall be color or number coded, maintain coding continuously throughout circuit, and have circuit breaker protection devises as per specification and published manufacturer diagrams.

Comply: (✓)
Deviation:

FUEL TANK: Manufacturer's standard model for current production year.

1. Fuel system shall have a water sediment bowl with a service indicator light and a spin-on type fuel filter that is placed in an area of easy accessibility for maintenance

Comply: (✓)
Deviation:

December 14, 2011
VERSION NO. _

HARBOR DEPARTMENT
SPECIFICATION NO.

- DESCRIPTION: HYDRAULIC PILE DRIVING AND EXTRACTING SYSTEM, COMPRISED OF THE EQUIVALENT TO AMERICAN PILE DRIVING EQUIPMENT (APE) MODEL 375 HYDRAULIC POWER UNIT; MODEL 170VM VIBRATORY EXTRACTOR; AND MODEL 7.5C LOW HEADROOM HYDRAULIC IMPACT HAMMER

purposes.

MISCELLANEOUS ATTACHMENTS:

- Appropriate Timber Clamp (APE Mdl# 20);
- Appropriate Universal Clamp (APE Mdl 150);
- Appropriate Hydraulic Hose Bundle (150');
- Appropriate remote electric control pendant (50');
- Appropriate hammer lead guides (26");
- Appropriate drive base (Type "A");
- Appropriate Timber pile insert (DCT);
- Appropriate Timber boot for flying hammer operation;

Comply: (✓)
Deviation:

COLOR: Manufacturer's standard color.

Comply: (✓)
Deviation:

GENERAL REQUIREMENTS: Equipment shall be new and unused, current model year. Shall be factory standard in all respects not in conflict with specific requirements.

Comply: (✓)
Deviation:

WARRANTY: The manufacturer's maximum standard warranty shall apply for not less than 12 months and unlimited hours, after acceptance of delivery and to commence on the date of "in-service."

Comply: (✓)
Deviation:

Bidders shall submit a copy or full statement of the standard warranty with the bid.

EXTENDED WARRANTY: 5-Year/5000 Hour extended warranty requested.

Comply: (✓)
Deviation:

SPECIAL REQUIREMENTS:

Comply: (✓)

- **DESCRIPTION: HYDRAULIC PILE DRIVING AND EXTRACTING SYSTEM, COMPRISED OF THE EQUIVALENT TO AMERICAN PILE DRIVING EQUIPMENT (APE) MODEL 375 HYDRAULIC POWER UNIT; MODEL 170VM VIBRATORY EXTRACTOR; AND MODEL 7.5C LOW HEADROOM HYDRAULIC IMPACT HAMMER**

1. Emissions Standards: Equipment engine must comply with all emission standards set by the South Coast Air Quality Management District in effect at the time of delivery. Documentation that the engine exhaust emissions meet the SCAQMD standards must be supplied with the machine at the time of delivery.
2. Equipment not meeting the State of California Assembly Line Emissions Standards WILL NOT BE ACCEPTED.

Deviation:

MANUALS, BOOKS, CERTIFICATES, and KEYS: The following are required to be provided at the time the equipment is delivered and all costs should be included in the bid price.

1. Two (2) complete and accurate ENGINE, ELECTRICAL, and EMISSIONS technical service manuals, books or CD's.
2. Two (2) complete and accurate OPERATORS manuals, books, or CD's.
3. Two (2) complete and accurate PARTS manuals, books, or CD's.
4. Two (2) complete and accurate SYSTEM SAFETY manuals, books, or CD's.
5. Six (6) complete sets of keys.

Comply: (✓)
Deviation:

INSPECTION:

1. The vendor shall notify the Mechanical Repair General Supervisor, or Equipment Repair Supervisor, Equipment Repair Section, Construction and Maintenance Division, Harbor Department, City of Los Angeles, at (310) 732-3560 or 3403, not less than five (5) days in advance, that the equipment is ready for the following inspections:

Comply: (✓)
Deviation:

- **DESCRIPTION: HYDRAULIC PILE DRIVING AND EXTRACTING SYSTEM, COMPRISED OF THE EQUIVALENT TO AMERICAN PILE DRIVING EQUIPMENT (APE) MODEL 375 HYDRAULIC POWER UNIT; MODEL 170VM VIBRATORY EXTRACTOR; AND MODEL 7.5C LOW HEADROOM HYDRAULIC IMPACT HAMMER**

2. For vendors located within a 90-mile radius of the Harbor Department, the pre-delivery inspection of the completed equipment shall be at the dealer's location.
3. For vendors located outside of a 90-mile radius, the pre-delivery inspection shall be done at the Harbor Department's Berth 161 location. If discrepancies are found, the vendor will be responsible for all transportation costs for the return of the item back to the vendor's location for resolution.
4. Final inspection at the point of delivery.

DELIVERY: Equipment to be delivered to the Harbor Department, Construction and Maintenance Division, 500 Pier "A" Street, Berth 161, Wilmington, California 90744.
State best delivery: 60 days from receipt of order.

Comply: (✓)
Deviation:

FINAL NOTES:

1. The Harbor Department is exempt from payment of Federal Excise Taxes and will furnish vendor with tax exemption certification upon request.
2. Vendor to indicate:
Contact Person: Linda Elfstrom
Phone number: 253-872-0141x24
Fax number: 253-872-4701

Comply: (✓)
Deviation: