



DATE: June 5, 2013

TO: Honorable Mayor and City Councilmembers

FROM: Public Works Department – Harbor and Beaches

SUBJECT: **PROFESSIONAL SERVICES AGREEMENT WITH JOHN S. MEEK COMPANY, INC. FOR STEEL BRACE REPLACEMENT ON THE OCEANSIDE MUNICIPAL PIER**

SYNOPSIS

Staff recommends that the City Council approve a professional services agreement with John S. Meek Company, Inc. of Gardena in the amount not to exceed \$125,000 to replace thirty-one steel pipe braces on the Oceanside Municipal Pier, and authorize the City Manager to execute the agreement.

BACKGROUND

The current Oceanside Municipal Pier was built in the mid-1980s using wood pilings, steel pipe braces and a wood deck. The steel pipe braces have outlived their useful service life and are replaced in an ongoing maintenance program. To date, 600 of the original 2000 braces have been replaced.

ANALYSIS

In October 2012, the Harbor and Beaches Division solicited bids to replace 31 steel pipe braces from three qualified marine contractors. The John S. Meek Company was chosen because of their cost. When completed, 631 of the original 2000 braces will have been replaced. This is an ongoing program in which the bracing between the pilings is replaced every year. The bracing project will not be completed in the foreseeable future.

The City Council has approved an additional \$90,000 for pier wood deck replacement for FY 2013-14. That is a separate project that will complete the decking replacement project.

FISCAL IMPACT

The total cost of the work will not exceed \$125,000. It will be funded by transferring \$125,000 from the Pier Deferred Maintenance Account 425421581.5305 to the Pier Brace Replacement Project Account 907131700581.5305.

INSURANCE REQUIREMENTS

The City's standard insurance requirements will be met.

COMMISSION OR COMMITTEE REPORT

Does not apply.

CITY ATTORNEY'S ANALYSIS

The referenced documents have been reviewed by the City Attorney and approved as to form.

RECOMMENDATION

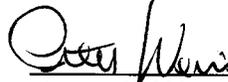
Staff recommends that the City Council approve a professional services agreement with John S. Meek Company, Inc. of Gardena in the amount not to exceed \$125,000 to replace thirty-one steel pipe braces on the Oceanside Municipal Pier, and authorize the City Manager to execute the agreement.

PREPARED BY:



Frank Quan
Harbor and Beaches Coordinator

SUBMITTED BY:



Peter A. Weiss
City Manager

REVIEWED BY:

Michelle Skaggs Lawrence, Deputy City Manager



H. Hans Koger, Public Works Division Manager



Teri Ferro, Financial Services Director



- Attachment 1: Request for Quotation & Quotes
- Attachment 2: Professional Contractor Services Agreement
- Attachment 3: Pier Brace Specifications

The City of Oceanside Public Works Department, Harbor and Beaches Division is requesting price quotes from qualified firms for:

PIER BRACE REPLACEMENT 2013

The City of Oceanside owns a 1600 LF fishing pier. Some of the support bracing under the decking is in need of replacement.

Please send cost estimate in the following format:

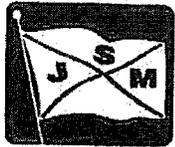
Per brace replacement cost

1. This contract will not exceed \$125,000.
2. The bracing to be replaced begins in Bent #63 and continues eastward.
3. The CONTRACTOR will provide the necessary braces, hardware and work platform.
4. The work shall be completed in 45 working days following the issue of Notice to Proceed unless the City agrees to an extension.
5. The contractor shall obtain a no fee construction certificate.
6. The contractor shall obtain a city of Oceanside business license.
7. The contractor shall obtain proof of workman's compensation and certificate of insurance with the City named as additionally insured.
8. The contractor shall obtain performance and payment bonds.
9. The steel pipe brace specification is contained in the attached file, **12-16-08 Pipe Bracing Specification**.

If you have any questions, please contact Frank Quan at the number below. Please return quotes no later than December 1, 2012 at 5:00 p.m. Quotations can be mailed, faxed or emailed to:

Frank Quan
1540 Harbor Drive North
Oceanside, CA 92054

Telephone: (760) 435-4032
Fax: (760) 757-1726
Email: FQuan@ci.oceanside.ca.us



JOHN S.
MEEK
COMPANY, INC.

GENERAL CONSTRUCTION AND CONSTRUCTION MANAGEMENT

14732 SO. MAPLE AVENUE
GARDENA, CA 90248
TEL: (310) 830-6323
FAX: (310) 835-2163
E-MAIL: general@johnsmeek.com

December 1, 2012

City of Oceanside
1540 Harbor Drive North
Oceanside, CA 92054

Attention: Frank Quan
Phone: (760) 435-4032
Email: FQuan@ci.oceanside.ca.us

Gentlemen:

We are pleased to submit the following quotation for work on the Pier Brace Replacement 2013 project in Oceanside, California. Price includes all material, labor and, equipment to install braces starting at Bent #63. Braces are to be manufactured with double-extra strong pipe. Price also includes procuring the no cost permit, city of Oceanside business license, and insurance as required in the request.

John S. Meek Company proposes to install 31 each braces at \$4,030.00 each for a total of \$124,930.00

price is based on a typical 4 pile bent having 5 each transverse braces on the shore side of the pile and 5 each transverse braces on the seaward side of the pile (Detail Section K on sheet S-10) along with 8 each longitudinal braces (Detail Section Z on sheet S-10).

If you have any questions, please call.

Sincerely,

Joshua Jilk
Project Manager





Lic.#847555

7847 Dunbrook Road
Suite C
San Diego, CA 92126
Ph. 858-537-0774
Fax 858-537-9653

November 30, 2012

Mr. Frank Quan
City of Oceanside
Department of Harbor & Beaches
1540 Harbor Drive North
Oceanside, CA 92054-1070

Re.: Pier Bracing Replacement Bid for City Pier

Dear Mr. Quan,

Per your request please find our pricing below.

Based on the information provided in your email we are offering a proposal to replace braces under the pier.

NEWest Construction can furnish and install the braces for a cost of \$4,035.00 per brace.

Clarifications/Exceptions/Approach

We assume that work trucks will be able to travel up and down the pier.

Permits are excluded.

Standard insurance requirements.

Price quote firm for 30 days.

Any questions please feel free to call me at 858-537-0774.

Brian J. Jennette
Sr. Project Manager

From: Greg J Buchanan <greg@hc-co.com>
Sent: Saturday, December 01, 2012 3:06 PM
To: Frank Quan
Cc: 'Curtis Buchanan'
Subject: RE: City of Oceanside RFQ

Frank;

Thank you for the opportunity to once again bid on the pier repair. Our price, is \$124,800.00 to install 26 braces or a unit price of \$4,800.00 per brace. For comparative purposes, using the \$125,000.00 figure you could use 26.042 braces but I believe your accounting department might take exception.

Thank you again and look forward to your response (hopefully slightly after 5:00 today)

Greg J. Buchanan
Harbour Constructors, Co
Comtech Manufacturing Inc.
12611 Hoover Street
Garden Grove, CA 92841
Ph 714.895.2700
Fax 714.895.1700

-----Original Message-----

From: Frank Quan [<mailto:FQuan@ci.oceanside.ca.us>]
Sent: Tuesday, November 13, 2012 7:44 AM
To: 'Greg J Buchanan'
Subject: RE: City of Oceanside RFQ

Yes. Every day is a work day at the City of Oceanside, including Saturday.

Frank Quan

-----Original Message-----

From: Greg J Buchanan [<mailto:greg@hc-co.com>]
Sent: Monday, November 12, 2012 11:32 AM
To: Frank Quan
Subject: RE: City of Oceanside RFQ

Frank,

1 December 2012 is a Saturday. Is this the bid date intended?

Greg J. Buchanan
Harbour Constructors, Co
Comtech Manufacturing Inc.
12611 Hoover Street
Garden Grove, CA 92841
Ph 714.895.2700

CITY OF OCEANSIDE

PROFESSIONAL CONTRACTOR SERVICES AGREEMENT

PROJECT: OCEANSIDE MUNICIPAL PIER BRACE REPLACEMENT 2013

THIS AGREEMENT, dated May 1, 2013 for identification purposes, is made and entered into by and between the CITY OF OCEANSIDE, a municipal corporation, hereinafter designated as "CITY", and John S. Meek Company, Inc, hereinafter designated as "CONTRACTOR."

NOW THEREFORE, THE PARTIES MUTUALLY AGREE AS FOLLOWS:

1. **SCOPE OF WORK.** The project is more particularly described as follows:
Replace thirty-one (31) steel pipe braces on the Oceanside Municipal Pier as described in Attachment A - Request for Quotation 10-18-12 and Attachment B – Pier Bracing Specification.
2. **INDEPENDENT CONTRACTOR.** CONTRACTOR'S relationship to the CITY shall be that of an independent contractor. CONTRACTOR shall have no authority, express or implied, to act on behalf of the CITY as an agent, or to bind the CITY to any obligation whatsoever, unless specifically authorized in writing by the CITY. CONTRACTOR shall be solely responsible for the performance of any of its employees, agents, or subcontractors under this Agreement. CONTRACTOR shall report to the CITY any and all employees, agents, and consultants performing work in connection with this project, and all shall be subject to the approval of the CITY.
3. **WORKERS' COMPENSATION.** Pursuant to Labor Code section 1861, the CONTRACTOR hereby certifies that the CONTRACTOR is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code, and the CONTRACTOR will comply with such provisions, and provide certification of such compliance as a part of this Agreement.
4. **LIABILITY INSURANCE.**
 - 4.1. CONTRACTOR shall, throughout the duration of this Agreement maintain comprehensive general liability and property damage insurance, or commercial general liability insurance, covering all operations of CONTRACTOR, its agents and employees, performed in connection with this Agreement including but not limited to premises and automobile.

OCEANSIDE MUNICIPAL PIER BRACE REPLACEMENT 2013

4.2 CONTRACTOR shall maintain liability insurance in the following minimum limits:

Comprehensive General Liability Insurance
(bodily injury and property damage)

Combined Single Limit Per Occurrence	\$ 1,000,000
General Aggregate	\$ 2,000,000*

Commercial General Liability Insurance
(bodily injury and property damage)

General limit per occurrence	\$ 1,000,000
General limit project specific aggregate	\$ 2,000,000

<u>Automobile Liability Insurance</u>	\$ 1,000,000
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*General aggregate per year, or part thereof, with respect to losses or other acts or omissions of CONTRACTOR under this Agreement.

4.3 If coverage is provided through a Commercial General Liability Insurance policy, a minimum of 50% of each of the aggregate limits shall remain available at all times. If over 50% of any aggregate limit has been paid or reserved, the CITY may require additional coverage to be purchased by the CONTRACTOR to restore the required limits. The CONTRACTOR shall also notify the CITY promptly of all losses or claims over \$25,000 resulting from work performed under this contract, or any loss or claim against the CONTRACTOR resulting from any of the CONTRACTOR'S work.

4.4 All insurance companies affording coverage to the CONTRACTOR for the purposes of this Section shall add the City of Oceanside as "additional insured" under the designated insurance policy for all work performed under this agreement. Insurance coverage provided to the City as additional insured shall be primary insurance and other insurance maintained by the City of Oceanside, its officers, agents, and employees shall be excess only and not contributing with insurance provided pursuant to this Section.

4.5 All insurance companies affording coverage to the CONTRACTOR pursuant to this agreement shall be insurance organizations admitted by the Insurance Commissioner of the State of California to transact business of insurance in the state or be rated as A-X or higher by A.M. Best.

4.6 CONTRACTOR shall provide thirty (30) days written notice to the CITY should

OCEANSIDE MUNICIPAL PIER BRACE REPLACEMENT 2013

any policy required by this Agreement be cancelled before the expiration date. For the purposes of this notice requirement, any material change in the policy prior to the expiration shall be considered a cancellation.

- 4.7 CONTRACTOR shall provide evidence of compliance with the insurance requirements listed above by providing, at minimum, a Certificate of Insurance and applicable endorsements, in a form satisfactory to the City Attorney, concurrently with the submittal of this Agreement.
- 4.8 CONTRACTOR shall provide a substitute Certificate of Insurance no later than thirty (30) days prior to the policy expiration date. Failure by the CONTRACTOR to provide such a substitution and extend the policy expiration date shall be considered a default by CONTRACTOR and may subject the CONTRACTOR to a suspension or termination of work under the Agreement.
- 4.9 Maintenance of insurance by the CONTRACTOR as specified in this Agreement shall in no way be interpreted as relieving the CONTRACTOR of any responsibility whatsoever and the CONTRACTOR may carry, at its own expense, such additional insurance as it deems necessary.
5. **CONTRACT BONDS (for contracts exceeding \$25,000).** If the total contract price specified in Section 8 of this Agreement exceeds \$25,000, or if any amendment to this Agreement causes the total contract price to exceed \$25,000, before entering upon the performance of work, CONTRACTOR shall provide two good and sufficient bonds in the amounts listed below:
- Performance Bond in a sum not less than one hundred percent (100%) of the total contract price, to guarantee faithful and timely performance of all work, in a manner satisfactory to the CITY, and further to guarantee that all materials and workmanship will be free from original or developed defects
 - Payment Bond that meets the requirements of California Civil Code section 9554, in a sum not less than one hundred percent (100%) of the total contract price, to satisfy claims of material suppliers, mechanics and laborers employed by CONTRACTOR on the work that is the subject of this Agreement
6. **CONTRACTOR'S INDEMNIFICATION OF CITY.** To the greatest extent allowed by law, CONTRACTOR shall indemnify and hold harmless the CITY and its officers, agents and employees against all claims for damages to persons or property arising out of the negligent acts, errors or omissions or wrongful acts or conduct of the CONTRACTOR, or its employees, agents, subcontractors, or others in connection with the execution of the work covered by this Agreement, except for those claims arising from the willful misconduct, sole negligence or active negligence of the CITY, its officers, agents, or employees. CONTRACTOR'S

OCEANSIDE MUNICIPAL PIER BRACE REPLACEMENT 2013

indemnification shall include any and all costs, expenses, attorneys' fees, expert fees and liability assessed against or incurred by the CITY, its officers, agents, or employees in defending against such claims or lawsuits, whether the same proceed to judgment or not. Further, CONTRACTOR at its own expense shall, upon written request by the CITY, defend any such suit or action brought against the CITY, its officers, agents, or employees resulting or arising from the conduct, tortious acts or omissions of the CONTRACTOR.

CONTRACTOR'S indemnification of CITY shall not be limited by any prior or subsequent declaration by the CONTRACTOR.

7. **OWNERSHIP OF DOCUMENTS.** All plans and specifications, including details, computations and other documents, prepared or provided by the CONTRACTOR under this Agreement shall be the property of the CITY. The CITY agrees to hold the CONTRACTOR free and harmless from any claim arising from any use, other than the purpose intended, of the plans and specifications and all preliminary sketches, schematics, preliminary plans, architectural perspective renderings, working drawings, including details, computation and other documents, prepared or provided by the CONTRACTOR. CONTRACTOR may retain a copy of all material produced under this Agreement for the purpose of documenting CONTRACTORs participation in this project.
8. **COMPENSATION.** CONTRACTOR'S compensation for all work performed in accordance with this Agreement, shall not exceed the total contract price of \$125,000

No work shall be performed by CONTRACTOR in excess of the total contract price without prior written approval of the CITY. CONTRACTOR shall obtain approval by the CITY prior to performing any work that results in incidental expenses to CITY.
9. **TIMING REQUIREMENTS.** Time is of the essence in the performance of work under this Agreement and the timing requirements shall be strictly adhered to unless otherwise modified in writing. All work shall be completed in every detail to the satisfaction of the CITY within [number of working or calendar days] [project manager may insert a phased timing requirement instead of time certain, if desired].
10. **ENTIRE AGREEMENT.** This Agreement comprises the entire integrated understanding between CITY and CONTRACTOR concerning the work to be performed for this project and supersedes all prior negotiations, representations, or agreements.
11. **INTERPRETATION OF THE AGREEMENT.** The interpretation, validity and enforcement of the Agreement shall be governed by and construed under the laws of

OCEANSIDE MUNICIPAL PIER BRACE REPLACEMENT 2013

the State of California. The Agreement does not limit any other rights or remedies available to CITY.

The CONTRACTOR shall be responsible for complying with all local, state, and federal laws whether or not said laws are expressly stated or referred to herein.

Should any provision herein be found or deemed to be invalid, the Agreement shall be construed as not containing such provision, and all other provisions, which are otherwise lawful, shall remain in full force and effect, and to this end the provisions of this Agreement are severable.

12. **AGREEMENT MODIFICATION.** This Agreement may not be modified orally or in any manner other than by an agreement in writing signed by the parties hereto.
13. **TERMINATION OF AGREEMENT.** Upon five (5) days' written notice to the CONTRACTOR, the CITY may, without cause and without prejudice to any other of the CITY's rights or remedies, terminate this Agreement. Upon the service of a notice of termination, the CONTRACTOR shall discontinue the work in the manner, sequence, and at such times as directed by the CITY's project manager. The CONTRACTOR shall remain responsible for the quality and fitness of the work performed by the CONTRACTOR before termination of the Agreement. All requirements of the Agreement pertaining to work completed or to be completed as of the time of termination shall survive the termination, including without limitation all indemnities, warranties, requirements for preparation of record drawings and completion of any "punch list" items directed by the CITY's project manager.

If any portion of the work is terminated or abandoned by the CITY, then the CITY shall pay CONTRACTOR for any work completed up to and including the date of termination or abandonment of this Agreement. The CITY shall be required to compensate CONTRACTOR only for work performed in accordance with the Agreement up to and including the date of termination. Notwithstanding the foregoing, the CONTRACTOR shall not be entitled to recover any loss of anticipated profit or revenue or other economic loss arising out of or resulting from the termination, including without limitation any claim for anticipated profits on the work not performed or lost business opportunity.

OCEANSIDE MUNICIPAL PIER BRACE REPLACEMENT 2013

- 14. SIGNATURES. The individuals executing this Agreement represent and warrant that they have the right, power, legal capacity and authority to enter into and to execute this Agreement on behalf of the respective legal entities of the CONTRACTOR and the CITY.

IN WITNESS WHEREOF, the parties hereto for themselves, their heirs, executors, administrators, successors, and assigns do hereby agree to the full performance of the covenants herein contained and have caused this Professional Contractor Services Agreement to be executed by setting hereunto their signatures on the dates set forth below.

JOHN S. MEEK COMPANY, INC.
By: [Signature] _____
Name/Title President
By: John S. Meek _____
Name/Title
33-0664950 _____
Employer ID No.

CITY OF OCEANSIDE
By: _____
Peter Weiss, City Manager

APPROVED AS TO FORM:
[Signature] _____
for John Mullen, City Attorney

NOTARY ACKNOWLEDGMENTS OF CONTRACTOR MUST BE ATTACHED.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California

County of Los Angeles

On April 24, 2013 before me, Anna Lisa Paola, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared John A. Meek
Name(s) of Signer(s)

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: [Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: City of Oceanside Professional Contractor Services Agreement

Document Date: December 12, 2012 Number of Pages: 6

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

Corporate Officer — Title(s): _____

Individual

Partner — Limited General

Attorney in Fact

Trustee

Guardian or Conservator

Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

Signer's Name: _____

Corporate Officer — Title(s): _____

Individual

Partner — Limited General

Attorney in Fact

Trustee

Guardian or Conservator

Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here



December 16, 2008

Mr. Frank Quan
 City of Oceanside
 Department of Harbor and Beaches
 1540 Harbor Drive North
 Oceanside, CA. 92054

RE: Plans and Specifications
 For Steel Pipe Brace Replacement
 Oceanside Municipal Fishing Pier
 For City of Oceanside

Dear Frank:

We have completed our scope of services in accordance with our accepted proposal of October 8, 2008. On December 2, 2008 Mr. Robert Bachman and I performed a one day visual site inspection of the pier, which consisted of an underneath pier inspection of the steel pipe bracing system and other visible pier elements by boat with two of your staff, followed up with a deck side inspection to view the pipe bracing system from above. Based on this inspection we are recommending that the City prepare a construction bid package with the attached items of work. As agreed to we have made use of the original set of pier plans and bid documents of 1986 and have made reference to the recommended changes in the pipe bracing material and its protective paint coating.

The overall existing condition of the pier's steel pipe bracing system is extremely poor and inadequate with numerous sections of bracing completely unattached to the pier's pilings due to corrosion, and with numerous other sections so severely corroded that they have virtually no structural capacity. The replacement of this steel pipe bracing system should take place as soon as possible since the pier is in jeopardy to severe damage if the design wave loading were to occur before repairs were completed. The priority of repair work is to initiate replacement of the horizontal and diagonal steel pipe bracing and associated connection hardware. The work would also include the rehabilitation or where necessary replacement of the galvanized lower pipe bracing connection brackets. Rehabilitation means the bracket should be brushed with a wire brush until a clean condition is obtained and then a protective paint coating is applied. The upper connection brackets generally show signs of minimal corrosion but where corrosion is present the corroded areas should also be cleaned and protective coatings applied. It is recommended that the replacement and rehabilitation work start at the seaward end of the pier (pier head) and proceed shoreward in accordance with the attached description of work. All work should be performed by a qualified marine contractor experienced in this type of work, and all coating

☐ NOVATO	359 BEL MARIN KEYS BLVD., SUITE 9, NOVATO, CA 94949-5637	(415) 884-0727	FAX (415) 884-0735
☐ IRVINE	2201 DUPONT DR., SUITE 620, IRVINE, CA 92612-7509	(949) 752-1530	FAX (949) 752-8381
☐ SAN DIEGO	P O BOX 231531, ENCINITAS, CA 92023-1531	(760) 715-8537	

<http://www.nobleconsultants.com>

NOBLE CONSULTANTS, INC.

Mr. Frank Quan
City of Oceanside
Oceanside Municipal Fishing Pier
December 16, 2008
Page 2 of 2

should be performed by a qualified and experienced coating company that is familiar with the use of Carboline coating products.

Our attached pier work to be performed specifies the replacement of the steel pipe bracing using double-extra strong pipe versus standard weight pipe which was used in the original pier's design and construction. Even though the standard weight pipe is sufficient from a design standpoint we are now recommending a pipe with a thicker wall section (increased thickness) in order to provide an increased corrosion allowance, which in turn will increase the longevity of the bracing system in the event that maintenance of the bracing system is deferred in the future due to costs and other priorities. This increase in steel pipe wall thickness should not be inferred as an inadequacy in the original design, which was based on annual maintenance being performed in accordance with the pier's maintenance manual that we provide to the City at the time of the pier's initial design.

Please call me if you have any questions.

Sincerely,

NOBLE CONSULTANTS, INC.



Ronald M. Noble, P.E.
President

RMN/njm
attach.

City of Oceanside Municipal Fishing Pier
Replacement of Steel Pipe Bracing

Work to include:

1. Remove and replace all steel pipe bracing, both horizontal and diagonal, from Bent No.1 (landward end of pier) through Bent No.89 (seaward end of pier) except for 23 recently replaced horizontal and diagonal bracings facing within the north-east corner of pier head (Bents 84,85 & 86 through first 5 northerly piles of each bent). Replacement shall start at Bent No. 89 and proceed towards Bent No. 1.
2. Use existing Pier Plans dated 2-17-86 from Sheet S-2 through Sheet S-16A for dimensions and connection details, except all existing 3-inch diameter Standard Weight Pipe (longitudinal bracing across bents) is to be replaced with 3-inch diameter Double-Extra Strong Pipe, and all existing 4-inch diameter Standard Weight Pipe (lateral bracing between bents) is to be replaced with 4-inch diameter Double-Extra Strong Pipe.
3. Revise steel pipe bracing splice Details 28 and 29 of Sheet S-15 to use 4-inch diameter Extra Strong Pipe splice on outer sides of 3-inch diameter Double-Extra Strong Pipe bracing for Detail 28, and 5-inch diameter Extra Strong Pipe splice on outer sides of 4-inch diameter Double-Extra Strong Pipe bracing for Detail 29 and substitute the pipe splice spacing dimensions shown in Detail 28 for Detail 29. Also use 7/16-inch fillet welds instead of 1/4-inch fillet welds for both of these pipe splice details.
4. Revise typical pipe end cap detail shown in Details 28, 29 and 30 on Sheet S-15 to use 3/8-inch plate with 5/16-inch fillet weld instead of 1/4-inch plate with 1/8-inch fillet weld. Also in Detail 30 use 5/16-inch fillet weld instead of 3/16-inch fillet weld for bolt sleeve weld.
5. Replace all steel pipes bracing connecting hardware (bolts, nuts, washers) for replaced bracing per the existing plans.
6. Remove and recondition all galvanized lower connection brackets for horizontal and diagonal steel pipe bracing for those brackets which show no delamination and have minimum corrosion. Reconditioning shall be done by cleaning with a steel brush until a clean condition is obtained free of loose rust scale and salt in accordance with SSPC SP 2, SP 3 or SP 12. Then apply new protective paint

coating per these specifications and replace connection brackets. There are numerous connecting brackets that have undergone severe corrosion and in some cases delamination which will require replacement per the existing plans. Severe corrosion is defined as the loss of plate thickness of more than 1/16 inch after cleaning. A majority of these brackets are located shoreward of Pile Bent No.46 in the high wave splash zone.

7. Replace bottom steel brackets, bottom supports and any other deteriorated hardware for sump pump (SP-1) near pile bent number 36, and for sewage ejector (SE-2) near pile bent number 47.
8. Steel brush clean per SSPC SP 2, SP 3 or SP 12 and apply protective paint coating per these specifications to the underneath sides of the two wide flange W14x68 steel beams located underneath the restaurant on the pier head where the paint coating has been damaged.
9. Steel brush clean per SSPC SP 2, SP 3 or SP 12 and apply protective paint coating per these specifications for all remaining malleable washers and existing bolts which are part of the lower pipe bracing and connection bracket assemblies which show signs of corrosion.
10. Steel brush clean per SSPC SP 2, SP 3 or SP 12 and apply protective paint coating per these specifications to the exposed portions (below the pile caps) of all stringer bolts and malleable washers that connect the longitudinal stringers to the pile caps.
11. Repair pier pile wraps on pier's south side at pile bent numbers 27 and 28, and on pier's north side at pile bent numbers 1, 2 and 3, and any others that require repairing per the original specifications.
12. Structural Steel and Metal Fabrication Specifications shall be Section 05500 of original Bid Documents dated February 3, 1986, except for the following changes:
 - a. Part 2.1: Materials, B: Steel Pipes shall be Double-Extra Strong except for Item #3 above where outer splice sleeves shall be Extra Strong conforming to ASTM A-53, type E or S, Grade B.
 - b. Part 2.3: Shop Paint, A: Surface Preparation: Surface preparation of steel pipe shall be in accordance with SSPC SP 6 or better to achieve a 3 mil minimum blast profile.

NOBLE CONSULTANTS, INC.

City of Oceanside Municipal Fishing Pier
Replacement of Steel Pipe Bracing
December 16, 2008
Page 3 of 3

- c. Part 2.3: Shop Paint, B: Primer and C: Top Coat; replace with: Use Carboglas 1209, a glass flake filled epoxy, as manufactured by Carboline Co, St. Louis, MO for all replaced steel pipe bracing with a dry film thickness of 35 to 40 mils in accordance with manufacturer's instruction (Carboline product data sheet). Multiple coats may be necessary in order to achieve the specified thickness. Leave 5 inches blasted and uncoated at each end of the 3- and 4-inch diameter double-extra strong horizontal and diagonal pipe, and leave 1 inch blasted and uncoated at each end of the 4- and 5-inch diameter extra strong sleeve pipe by wrapping these uncoated ends to prevent rust contamination prior to field installation.
- d. Part 3.2: Repair Coating, A: Field Painting of Steel Pipe Sleeve Connections: Dress welds and stripe with Carboline 1209 thinned to approximately 20%. Solvent clean exposed surfaces and apply Carboline Carbogard with a dry film thickness of 35 to 40 mils in accordance with manufacturer's instruction (Carboline product data sheet). The edge of the Carboline 1209 transition from the shop coating to the wrapped steel pipe ends should be a butt edge. When the bare ends are to be field coated, apply the required thickness of Carboline 1209 to the uncoated steel pipe and overlap the Carboline 1209 on the previously applied Carboline 1209 by 2 to 3 inches. The previously applied coating to receive the overlap should have a surface profile of 3 mils before coating.
- e. Part 3.2: Repair Coating, B: Field Painting of Existing Pier Steel Hardware (wide flange beams, pipe brackets, bolts, washers, etc.) Requiring Reconditioning: Prepare surface by steel brushing to remove loose rust scale and other contaminants such as salt to produce clean, paintable surface in accordance with SSPC SP 2, SP 3 or SP 12. Apply 2 coats of Carboline Carbomastic 15 or Carbomastic FC with a dry film thickness of 5 to 6 mils in accordance with manufacturer's instruction (Carboline product data sheet).

SECTION 05500
STRUCTURAL STEEL AND METAL FABRICATION

PART 1 - GENERAL

1.1 WORK INCLUDED

- A FABRICATED METAL consists of furnishing transportation, supervision, labor, equipment and materials for the fabrication and installation of all structural steel work in accordance with the Drawings and Specification.

1.2 REFERENCE STANDARDS

A Applicable Standards

1 American Society for Testing and Materials (ASTM):

ASTM A 36 Specification for Structural Steel

ASTM A 53 Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless

ASTM A 108 Specification for Steel Bars, Carbon, Cold-Finished Standard Quality

ASTM A 120 Specification for Pipe, Steel, Black and Hot-Dipped Zinc Coated (Galvanized) Welded and Seamless for Ordinary Uses

ASTM A 307 Specification for Carbon Steel Externally Threaded Standard Fasteners

ASTM A 500 Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes

ASTM A 563 Specification for Carbon and Alloy Steel Nuts

2 American Welding Society (AWS):

AWS D1.1 Steel Structural Welding Code

3 American Institute of Steel Construction (AISC):

Manual of Steel Construction

4 Uniform Building Code

B Reference Specifications (RS):

Section 206 Miscellaneous Metal Items

Section 210-3 Galvanizing

1.3 INSPECTION

A The Project Engineer reserves the right to inspect the fabrication at any time during the work to assure that the materials and workmanship are in accordance with the Specification. The Project Engineer's inspection of the work shall not relieve the Contractor from responsibility for work errors or faults which are discovered during fabrication. Such work errors and faults shall be corrected by the Contractor at the Contractor's expense.

1.4 QUALIFICATION OF WELDERS

A Welders shall be qualified in accordance with the requirements of AWS D1.1 and certified by the Oceanside City Building and Safety Department.

1.5 MILL TEST

A Mill tests shall be prepared for specified ASTM material and conform to RS Sections 206-1.1.2 and 1.1.3.

1.6 SUBMITTALS

A Test Reports:

The Contractor shall submit to the Project Engineer two copies of mill test reports certifying that materials meet specified ASTM requirements.

B Shop Drawings:

- 1 Contractor shall furnish the shop drawings with bill of material, erection and other working plans showing details, dimensions, size of material, information and data necessary for the complete fabrication and erection of the structural steel to the Project Engineer for approval. No material shall be ordered prior to approval.
- 2 No change shall be made on any drawing after it has been approved except by written consent or direction of the Project Engineer.

- 3 Substitution of materials having dimensions different from those shown on the Drawings shall be made only when approved in writing by the Project Engineer.

C Welding Procedure: The Contractor shall submit to the Project Engineer a complete and detailed welding procedure for approval before commencing work.

PART 2 - PRODUCTS

2.1 MATERIALS

- A Steel plates, shapes, rods and bars shall conform to the requirements of ASTM A 36.
- B Steel pipes shall be standard weight conforming to ASTM A 53, type E or S, Grade B.
- C Steel tube: shall comply with ASTM A 501.
- D Lag bolts shall be square head type complying with Fed Spec FF-B-561.
- E Anchor bolts, bolts, and washers shall conform to ASTM A 307 and RS Section 206-1.4. Furnish washers for all bolts. Provide square head regular type bolts.
- F Nuts shall conform to ASTM A 563.
- G Machine screws: Provide cadmium plated steel type complying with Fed Spec FF-S-111.
- H Malleable iron washers, shall conform to ASTM A47.

2.2 OTHER MATERIALS

- A Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Project Engineer.

2.3 SHOP PAINT

- A Surface Preparation: Abrasive blast per SSPC-SP10 with a surface blast profile of 1.0 to 1.5 miles.
- B Primer: use "Dimetcote 9 Primer" manufactured by Ameron Co. or approved equal at minimum 3.0 mils dry film thickness in accordance with manufacturer's instruction.

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C Top Coat: Apply 1 coat of top coat - 4 mils minimum d.f.t. of "Amercoat 350" by Ameron Co. or approved equal.

D Galvanized items shall be primed with a suitable phosphoric acid wash primer and top coated with 4 mils d.f.t. Amercoat 350 or approved equal.

2.4 FABRICATION

A General:

Fabricated metal items shall be fabricated and finished in accordance with the Drawings and approved shop drawings. Welding shall be continuous along the area of contact. All welds shall be ground smooth where called for. Applicable tolerances shall conform to the AISC Manual of Steel Construction.

- 1 All connections that are not detailed or otherwise noted on the design drawings shall be shop-welded and field-bolted. All welded connections shall be seal welded to prevent corrosion.
- 2 End distances shall conform to AISC Specification, Section 1.16.5, unless noted on the design Drawings.
- 3 The Contractor shall furnish and install erection clips for fit-up of welded connections.
- 4 Ample clearance shall be provided for field erection.
- 5 All sharp corners and burrs shall be removed.

B Prior to shop painting or priming, properly clean metal surfaces as required for the applied finish and for the proposed use of the item.

C Welding: All welding procedures and inspection shall be in accordance with AWS D1.1 and the Uniform Building Code. Use E70xx electrodes.

D Galvanizing: Galvanizing shall conform to RS Section 210-3. All bolts, nuts and steel washers shall be galvanized unless noted otherwise on the Drawings. All galvanizing shall be done after fabrication.

2.5 PRODUCT HANDLING

A Delivery and Storage: All materials shall be delivered to the jobsite properly marked to identify the structures

for which they are intended. Marking shall correspond to marking indicated on the shop drawings. Materials shall be stored in a manner to maintain identification and to prevent damage.

- B Replacements: In the event of damage, the Contractor shall immediately make all repairs and replacements necessary for the approval of the Project Engineer at Contractor's cost.

2.6 PRODUCT STORAGE

- A Metals shall be stored aboveground upon platforms, skids, or other supports and kept free from dirt, grease, and other foreign material and shall be properly drained and protected from corrosion.

2.7 REJECTED MATERIAL

- A Material (before or after acceptance) showing injurious defect, weak spots, imperfections in work, or materials not conforming to this Specification or the Drawings shall be rejected. Such materials shall be replaced by the Contractor at the Contractor's expense.

2.8 PIECE MARKING

- A Each shipping piece shall be clearly marked. On the erection drawing, the mark shall be in the corresponding in-place position.

2.9 OPTIONAL ITEMS

- A When tension rods are used, all clevises, turnbuckles or sleeve nuts and cotter pins shall be fabricated in accordance with the specification of "Manual of Steel Construction" by American institute of Steel Construction, latest edition. All items above shall be galvanized and coated as specified in this specification.

PART 3 - EXECUTION

3.1 INSTALLATION

A General:

- 1 Fabricated members shall be furnished and installed as shown on the Drawings or Specification.

- 2 Work shall be set to established lines, elevations and rigidly fastened in place. If flush welds are indicated, welds shall be ground flush with adjacent surfaces.
- 3 Work shall be installed to the tolerances as shown on the Drawings and Specification.

B Bolting:

- 1 Bolts, anchors, straps and similar items which are not specifically called for under this Specification, but which are needed for the installation of various parts of the work, shall be provided and installed by the Contractor.
- 2 Bolting shall be done with bolts and nuts called for on the Drawings and drawn tight and threads broken or upset. Steel shall be clean and free from mill scale, flake, rust or pitting. Holes, sinkages, and reinforcements shall be provided for attaching hardware or other items. Provisions shall be made for attachment to adjoining structures. Fastenings shall be concealed insofar as possible.
- 3 Provide templates and other devices necessary for presetting bolts and anchors to accurate locations.

C Welded Connections:

- 1 All field welding shall be indicated on the shop drawings.
- 2 Where field welding is required, comply with AWS recommended procedures of manual-shielded metal-arc welding for appearance and quality of weld and for methods to be used in correcting welding work.
- 3 Grind exposed welds smooth, and touchup shop prime coats.
- 4 Erection clips for fix-up of field welding connections will be provided by the structural steel fabricator.

3.2 REPAIR COATING

- A Immediately after erection, power tool clean the field welds, bolted connections, and abraded areas of shop

painting. Paint the exposed area with a high zinc-dust content paint; "Amercoat 68A" or approved equal, and top coated with minimum 4 mils d.f.t. of Amercoat 350 or approved equal.

3.3 OPTIONAL ITEMS

- A After tension rods are installed and tightened, the threads at ends of rods shall be broken or upset to prevent loosening.
- B After entire pier is completely constructed, the Contractor shall check and tighten all tension rods once more prior to the acceptance by the Owner.