

**Lee County Board Of County Commissioners  
Agenda Item Summary**

**Blue Sheet No. 20060250**

**1. ACTION REQUESTED/PURPOSE:**

**Declare an emergency (E-06-02)** and approve Construction Manager (CM) Agreements under RFQ-05-07 COUNTY-WIDE CONTRACT FOR CONSTRUCTION MANAGEMENT, to Gary Wilkes, Inc., (Contract #3160), for the project known as **FORT MYERS BEACH FISHING PIER ELASTOMERIC BEARING PAD REPLACEMENT** for a total Guaranteed Maximum Price (GMP) of \$719,246.00 (includes CM fee of \$50,146.00) with a project completion time of 240 days and for the project **FORT MYERS BEACH FISHING PIER CONCRETE RESTORATION** for a total Guaranteed Maximum Price (GMP) of \$816,289.00 (includes CM fee of \$55,639.00) with a project completion time of 240 days. Also request that the Board approve waiving of the formal process (if needed) and authorize the use of the Direct Material Purchase Orders as provided for in the CM agreement with Lee County, which allows the County to purchase directly from suppliers of equipment and/or materials as a cost/time saving measure. Further authorize Chairwoman to execute the CM Agreement. Also approve Budget Transfer from Tourist Development Beach Capital Improvement Fund Reserves in the amount of \$600,000 to the Lynn Hall Pier Pilings Repair project and amend FY 05/06 budget.

**2. WHAT ACTION ACCOMPLISHES:** Provides Lee County with a Construction Manager for the Fort Myers Beach Fishing Pier to include, but not limited to elastomeric bearing pad replacement and for the installation of new neoprene bearing pads for the prestressed concrete deck slabs.

**3. MANAGEMENT RECOMMENDATION: Staff Recommends Approval.**

<b>4. Departmental Category:</b> 2. <b>C2E</b>		<b>5. Meeting Date:</b> <b>03-14-2006</b>
<b>6. Agenda:</b>	<b>7. Requirement/Purpose: (specify)</b>	<b>8. Request Initiated:</b>
<input checked="" type="checkbox"/> <b>Consent</b>	<input type="checkbox"/> <b>Statute</b>	<b>Commissioner</b> _____
<input type="checkbox"/> <b>Administrative</b>	<input type="checkbox"/> <b>Ordinance</b>	<b>Department</b> <u>Public Works</u>
<input type="checkbox"/> <b>Appeals</b>	<input checked="" type="checkbox"/> <b>Admin. Code</b> <u>AC-4-4</u>	<b>Division</b> _____
<input type="checkbox"/> <b>Public</b>	<input type="checkbox"/> <b>Other</b> _____	<b>By:</b> <u>Jim Lavender, Director</u>
<input type="checkbox"/> <b>Walk-On</b>		

**9. Background:**

On May 3, 2005, the Board of County Commissioners approved the award of RFQ-05-07 COUNTY-WIDE CONTINUING CONTRACT FOR CONSTRUCTION MANAGEMENT with a total of twelve (12) firms. As approved under that blue sheet, each projects' Guaranteed Maximum Price (GMP) will be brought back for Board approval.

After the past two hurricane seasons, the Fort Myers Beach is in need of immediate repair. These repairs must be completed in time for the upcoming 2006 hurricane season. **THE FISHING PIER IS STRUCTURALLY SOUND.** Therefore, we are requesting the Board declare the emergency and to utilize the County Wide Continuing Construction Management Contract to approve the Construction Manager (CM) Agreement under RFQ-05-07 to Gary Wilkes, Inc., (Contract #3160), for the project known as FORT MYERS BEACH FISHING PIER ELASTOMERIC BEARING PAD REPLACEMENT (FEMA - HURRICANE CHARLEY) for a total Guaranteed Maximum Price (GMP) of \$719,246.00 (includes CM fee of \$50,146.00) with a project completion time of 240 days and for the project FORT MYERS BEACH FISHING PIER CONCRETE RESTORATION for a total Guaranteed Maximum Price (GMP) of \$816,289.00 (includes CM fee of \$55,639.00) with a project completion time of 240 days.

--Continued on Page 2--

**10. Review for Scheduling:**

Department Director	Purchasing or Contracts	Human Resources	Other	County Attorney	Budget Services				County Manager/P.W. Director
					Analyst	Risk	Grants	Mgr.	
<i>J. Mundy</i> 3.1.06	<i>[Signature]</i> 3/1/06	N/A	<i>[Signature]</i> 3/1/06	<i>[Signature]</i> 3/1/06	<i>[Signature]</i> 3/2/06	<i>[Signature]</i> 3/1/06	<i>[Signature]</i> 3/2/06	<i>[Signature]</i> 3/2/06	<i>[Signature]</i> 3.1.06

**11. Commission Action:**

- Approved**
- Deferred**
- Denied**
- Other**


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<i>[Signature]</i>
8:51
COUNTY ADMIN FORWARDED TO: <i>[Signature]</i>
3/2/06
4:30 PM

Rec. by CoAtty
Date: <i>3/2/06</i>
Time: <i>8:35 AM</i>
Forwarded to: <i>[Signature]</i>
<i>4-2-06</i>

Page Two  
Blue Sheet #20060250

Also request that the Board approve waiving of the formal process (if needed) and authorize the use of the Direct Material Purchase Orders as provided for in the CM agreement with Lee County, which allows the County to purchase directly from suppliers of equipment and/or materials as a cost/time saving measure.

On March 3, 2006, the Tourist Development Council approved funding an additional \$600,000 to repair the pilings that have suffered salt-water deterioration at Lynn Hall Pier.

Funds will be available in accounts: 40206530101.503490 and GC5133857700.504540.045 

Attachments: (1) Price Proposals from Gary Wilkes, Inc.  
(1) Budget Transfer



February 27, 2006

Mr. Baxter Rothell  
LEE COUNTY BOCC  
1500 Monroe Street  
Fort Myers, FL 33902

**RE: FORT MYERS BEACH FISHING PIER  
ELASTOMERIC BEARING PAD REPLACEMENT**

Dear Baxter:

As provided in the **Construction Manager Agreement Contract Number 3160**, the Guaranteed Maximum Price (GMP) is as follows:

1. Seven Hundred Nineteen Thousand Two Hundred Forty Six & No/100 Dollars \$719,246.00.
2. The GMP is based on the drawing and specifications by Pyper Engineering, Inc. titled "Exhibit A" that is attached and made a part of this agreement and is further defined per the attached Schedule of Values "Exhibit B".
3. The following clarifications and assumptions are associated with the GMP:
  - a. An allowance of \$ 26,000.00 is included in the GMP for all patching materials.
  - b. All of the hold down brackets shall be reinstalled in their present location.
  - c. The pier shall be scaffold per the design and recommendation by Pyper Engineering Inc.
  - d. An office trailer is not included nor is a full time superintendent included.
  - e. Pedestrian and crowd control and necessary signage to accomplish same shall be provided by Lee County.
  - f. Temporary utilities such as power and water shall be provided by Lee County.
  - g. All necessary permits shall be by Lee County.
  - h. GWI shall not be liable for Structural failure caused by unseen conditions.
  - i. GWI will use its Construction Management software to generate RFIs, Daily Reports, Visitor Logs, Meeting Minutes and other similar forms.
4. The date of Substantial Completion is 240 calendar days from Notice to Proceed and or date of building permit whichever is later.
5. The Construction Manger's fee for this project is Fifty Thousand One Hundred Forty Six & No/100 Dollars \$50,146.00.

Sincerely,



Bruce Dailey  
Project Manager

Piper Engineering, Inc.  
Fort Myers Beach Fishing Pier  
Elastomeric Bearing Pad Replacement

## Exhibit "A"

September 29, 2005  
Page 1 of 2

**ELASTOMERIC BEARING PAD REPLACEMENT**Part I General

## 1.01 Summary

- A. This work shall consist of removing and replacing the one (1) foot by two (2) foot by ½ inch elastomeric bearing pads on the Fort Myers Beach Fishing Pier located at 950 Estero Boulevard, Fort Myers Beach, Florida.
- B. Project details contained in the Jenkins and Charland, Inc., drawings titled Fort Myers Beach Fishing Pier, Phase III dated 09/26/91 shall be considered part of this specification.

Part II Products

## 2.01 Materials

The contractor shall use materials specified in this document or approved equal.

- A. Elastomer Bearing Material shall be neoprene rubber with a shore durometer hardness of 50. All material shall conform to the AASHTO Standard specifications for highway bridges and the AASHTO material specification M251-90.
- B. Elastomer Bearing Adhesive Silaprene, as manufactured by Uniroyal Plastics Company or equal, shall be applied to the elastomeric bearing pad to preclude future movement. The high strength adhesive/sealant shall be applied in accordance with the manufacturer's specifications. The concrete pier cap shall be cleaned with high pressure water or sand blasting. Preparation shall be approved by the Engineer.
- C. Hold Down Brackets and Bolts shall be replaced as directed. Reuse of the brackets and bolts is anticipated. Replacement bracket and bolt shall be stainless steel conforming to Type 316.
- D. Bracket and Bolt Relocation shall be as directed. Relocated threaded anchor rod shall be Type 316 stainless steel, chemically anchored.
- E. Chemical (adhesive) Anchors shall be an equal two part epoxy polymer injection system, such as red-head Epon, Powers 'Power-Fast' cartridge system, Brinker Brown 20/20 epoxy, Simpson Epoxy-Tie, Dur-O-Wal 'Dur-O-Pair' Epoxy Anchor or HILTI HSE2411 Epoxy Doweling System, or engineer approved

*Pyper Engineering, Inc.  
Fort Myers Beach Fishing Pier  
Elastomeric Bearing Pad Replacement*

*September 29, 2005  
Page 2 of 2*

substitution, installed in accordance with manufacturer's instructions. Installers shall be trained by the manufacturer's representative. Minimum embedment shall be six (6) times fastener diameter unless noted otherwise.

- F. Elastomeric Joint Sealer shall meet the requirements of Sikaflex 15 LM or approved equal with compatible backer.
- G. Machine and Lag Bolts shall be A-307 hot dipped galvanized with galvanized washers.
- H. Substitutions: Under provisions of Section 01500.

### Part III Execution

#### 3.01 Hold Down Bracket Removal

- A. Hold down brackets and bolts shall be removed, cleaned, location marked and stored for reuse.

#### 3.02 Elastomeric Bearing Replacement

- A. The prestressed deck slabs shall be raised to allow bearing pad replacement and replaced in the original position undamaged.
- B. In areas where a structure is located on the prestressed slabs, the slabs and the structure shall be raised and replaced in the original position undamaged.
- C. Rail and utilities attached to the structure shall remain undamaged during the elastomeric pad replacement.
- D. Prestressed slabs shall be raised to allow sufficient clearance between the slab and pier cap for elastomeric pad removal, pier cap cleaning and elastomeric pad replacement including application of the adhesive specified.

#### 3.03 Hold Down Bracket Installation

- A. Hold down brackets to be reused shall be reinstalled in their original location with reused bolts or bolts meeting this specification.
- B. Hold down bracket replacement or relocation shall be approved by the Project Manager.
- C. Hold down bolts shall be tightened in accordance with the specified drawings.

# C.S.J of S.W Florida

15800 Brothers Ct.

Ft. Myers, Fl 33912

239-437-9555 phone 239-437-9556 fax



Glenn Jones

A-2

## Elastomeric Bearing Pads Estimated Cost of Materials

Item	Quantity	Cost
Bearing Pads	246	11,308.62
Bearing Pad Glue		1,500.00
Stainless-Steel brackets & bolts		10,000.00
Vulkem Caulk (tubes)	175	1,312.50
1 in. backer rod	384 lin. ft.	300.00
		Price \$24,421.12
		Tax 1,465.26
		Total \$25,886.38

**Material Volume Estimate Based on phase one of test.**

EXHIBIT B

Project FMB PAD REPLACEMENT Location **FORT MYERS BEACH** Job No.  
 Owner LEE COUNTY Architect Date **2/13/2006**  
 Estimator BED Checked Sheet  
 SF

SPEC	DESCRIPTION	S.F. Cost	LABOR	MAT.	SUB.	TOTAL	SUB/VENDOR
	GENERAL REQUIREMENTS		-	-	-	34,975	
	PAD REPLACE LABOR & EQUIP		-	-	-	192,000	
	MATERIAL		-	-	-	26,000	
	SCAFFOLD		-	-	-	245,000	
	LONGSHOREMAN REQUIREMENTS		-	-	-	58,000	
			-	-	-	-	
	CONTINGENCY		-	-	-	60,000	
	BOND		-	-	-	19,125	
	GEN LIABILITY INSURANCE					7,000	
	BUILDERS RISK					27,000	
	<b>TOTAL COST</b>					669,100	
	CM FEE					50,146	
	<b>GRAND BUDGET TOTAL</b>					<b>719,246</b>	



February 27, 2006

Mr. Baxter Rothell  
LEE COUNTY BOCC  
1500 Monroe Street  
Fort Myers, FL 33902

**RE: FORT MYERS BEACH FISHING PIER  
CONCRETE RESTORATION**

Dear Baxter:

As provided in the **Construction Manager Agreement Contract Number 3160**, the Guaranteed Maximum Price (GMP) is as follows:

1. Eight Hundred Sixteen Thousand Two Hundred Eighty Nine & No/100 Dollars \$816,289.00.
2. The GMP is based on the specifications dated September 11, 2005 supplemental instruction dated April 21, 2005 and December 13, 2004 by Pyper Engineering, Inc. titled "Exhibit A" that is attached and made a part of this agreement and is further defined per the attached Schedule of Values "Exhibit B".
3. The following clarifications and assumptions are associated with the GMP:
  - a. An allowance of \$ 65,000.00 is included in the GMP for all patching materials.
  - b. The pier shall be scaffold per the design and recommendation by Pyper Engineering Inc.
  - c. An office trailer is not included nor is a full time superintendent included.
  - d. Pedestrian and crowd control and necessary signage to accomplish same shall be provided by Lee County.
  - e. Temporary utilities such as power and water shall be provided by Lee County.
  - f. All necessary permits shall be by Lee County.
  - g. Total replacement of structural members is not included.
  - h. Work at and below the high water line is not included.
  - i. GWI shall not be liable for Structural failure caused by unseen conditions.
  - j. Cracks and spalling that occur after the members have been repaired and sealed and coated are not included in the GMP.
  - k. GWI will use its Construction Management software to generate RFIs, Daily Reports, Visitor Logs, Meeting Minutes and other similar forms.
4. The date of Substantial Completion is 240 calendar days from Notice to Proceed and or date of building permit whichever is later.
5. The Construction Manger's fee for this project is Fifty Five Thousand Six Hundred Thirty Nine & No/100 Dollars \$55,639.00.

Sincerely,

  
Bruce Dailey, Project Manager

# PYPER ENGINEERING, INC.

[www.pypereng.com](http://www.pypereng.com)

6249 Presidential Court, Suite D  
Fort Myers, Florida 33919-3525  
(239) 437-2029 / (239) 437-2031 (Fax)

December 13, 2004

Lee County of Southwest Florida  
Mr. Baxter Rothell  
Facilities Operations Manager  
1500 Monroe Street  
Fort Myers, FL 33901

**Reference: Fort Myers Fishing Pier**

Dear Baxter:

Per your December 7, 2004 verbal request, we have prepared the attached "Engineer's Opinion of Probable Costs" for the installation of new neoprene bearing pads for the prestressed concrete deck slabs on the referenced pier.

The following will explain the "Opinion" on an item by item basis:

- 1) Mobilization – Contractor moves onto the project site.
- 2) Work Platform and Jacking Points – We based our cost on the use of pile friction collars. The collars will provide a work platform as well as a place to raise the precast, prestressed deck slab approximately seven inches (7"). This will permit the workmen to remove the existing neoprene bearing pad, clean the pier cap, apply the mastic and install the new neoprene bearing pad. The two (2) pavilions will require special lifting procedures. These procedures will be covered in the design phase of this project.
- 2(a) CRACK & SPALL INSPECTION.
- 3) Remove and Reattach Stainless Steel Damaged Connector Brackets – Some of the brackets are undamaged, however, the concrete holding the anchor bolts has spalled. The brackets could be removed and relocated laterally to a solid concrete area and reinstalled. Care must be taken to avoid the slab prestress strands and the pier cap reinforcing steel.
- 4) Remove and Reattach Stainless Steel Connector Bolts – The connector bolts have to be removed to lift the deck slab as described in Item 2. After the work is completed, the bolts can be reinstalled.
- 5) Jack Precast Slabs – As described in Item 2, the slabs are to be raised seven inches (7") and then lowered to the new neoprene bearing pads.
- 6, 7, 8) Remove and Reattach Handrail, Electrical and Potable Water – In order to raise the deck slabs, the handrail, electrical conduit and the potable water carried on the side of the structure must be removed and reattached when the work is completed.

Mr. Baxter Rothell  
Facilities Operations Manager  
December 13, 2004  
Page 2

- 9) Inspect Prestress Cable Ends – This is an excellent opportunity to inspect the prestress strand plugs at the ends of the deck slabs and to repair them as necessary. This would help prevent deterioration of the prestress strand due to corrosion.

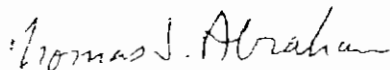
NOTE: This item may not be eligible for FEMA reimbursement.

- 10, 11, 12) Clean, Backer, Joint Sealant – These items deal with the installation of joint sealant when the deck slab is raised and then reset. First the old joint sealant is removed when the slab is in the raised position. The slab is then lowered [onto the new bearing pad], the backer installed and the new elastomeric joint sealant installed.
- 13) Mastic at Pile Caps for Bearing Pad – To preclude future movement of the new neoprene bearing pad, the pier cap is to be cleaned for good adhesion, the mastic applied and the new bearing pad set onto the mastic.
- 14) Remove and Replace 1/2" Bearing Pads – The old one foot (1'0") by two foot (2'0") bearing pad is to be removed and disposed of properly. The new bearing pad, of equal size, is then placed in the proper position on the mastic.

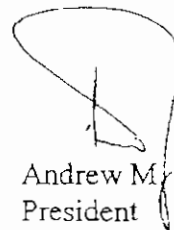
The "Engineer's Opinion" is based on our research for similar work and our engineering judgment. This estimate is not intended to cover hidden defects, hazardous materials, mechanical or electrical features.

If we can be of further service, please contact us.

Sincerely,  
Pyper Engineering, Inc.



Thomas J. Abraham  
Vice President



Andrew M. Pyper, PE  
President

TJA/AMP/lds

## CONCRETE REPAIR TYPES

The attached provide a methodology for concrete repairs for the Fort Myers Fishing Pier. The repair types are based on visual observation and are intended to cover a broad spectrum of repair situations. Some repair types will be used extensively, others very sparingly.

The contractor needs to submit data on methods of repairs planned prior to execution of the work to ensure repairs are executed correctly with thorough quality control. New repairs will involve removal of old repairs.

We also recommend thorough and more detailed attention to the repairs on piles seven (7) through eleven (11) where the most severe deterioration has occurred. Consider jacketing these piles with appropriate attention to aesthetics.

We met with Sika Corporation to discuss these repairs and to obtain up to date manufacturer recommended repair products. Sika is one of the leading companies manufacturing concrete repair products and represent the industry standard for this type of work.

The following product repair types were identified and recommended for the repairs on this project. Detailed notes and specifications are attached in this Appendix.

Concrete Restoration System (CRS) spec. components for the recommended methods and materials:

### Preparation for All:

Sika Armatec 110. Apply two coats on any exposed rebar for corrosion protection.

(See attached file: Prep-006-Epoxy Anti Corr.doc)

(See attached file: SC-201 Sika Armatec 110 Primer.doc)

### Type A - Repair Spalls by the Form and Pump Method

Sika MonoTop 611 Polymer-modified Repair Mortar

In areas that may be affected by tidal water prior to the mortar achieving sufficient strength to prevent mortar washout, add 2.8 ounces of Sikament 100SC anti-wash admixture to each bag of Sika Mono Top 611 mortar.

(See attached file: Prep-002-Formed.doc)

(See attached file: SC-132-Mtop611 Pump.doc)

Type B - Repair Spalls by The Hand Applied Method - using Sika Top 123 plus polymer-modified repair mortar

Apply two coats of Sika Armatec 110 on any exposed rebar for corrosion protection (same spec. components as above) and one coat on the existing concrete substrate as a bonding agent.

(See attached file: SC200-Bonding Bridge 110.doc)

(See attached file: Prep-001-HandApplied.doc)

(See attached file: SC-027 SikaTop 123Plus.doc)

Type C - Crack Repair

Repair cracks by epoxy injection using Sikadur 31 epoxy as the cap seal and Sikadur 52 as the injection resin.

(See attached file: Prep-012-Cracks-Injection.doc)

(See attached file: SC-018-Pres.Inj.52 & 31.doc)

Corrosion Protection for Areas That Have Not Yet Cracked or Spalled

Apply two coats of Sika Ferrogard 903 migrating corrosion inhibitor @ 100 sf/gal total coverage to all reinforced concrete surfaces.

(See attached file: Prep-007-Coatings.doc)

(See attached file: SC203-Ferrogard903.doc)

Protective Coating

To make the repaired areas look uniform and to waterproof/damp proof all concrete surfaces, apply two coats of SikaTop 144 polymer-modified cement coating @ approximately 150 sf/gal per coat.

(See attached file: Prep-007-Coatings.doc)

(See attached file: SC-057 SikaTop144.doc)

These are proprietary products and are brought forward to represent the industry standard. Other manufacturers have similar products under various trade names that may be equal or better than the above.

The specifications for repairs should state "XYZ Product Name or Equal" as a minimum. The trade names above state the expected standard of product to be used.

# PYPER ENGINEERING, INC.

[www.pypereng.com](http://www.pypereng.com)

6315 Presidential Court, Unit A  
Fort Myers, Florida 33919  
(239) 437-2029 / (239) 437-2031 (Fax)

April 21, 2005

Mr. Baxter Rothell  
Facilities Operations Manager  
1500 Monroe Street  
Fort Myers, FL 33901

LEE COUNTY  
RECEIVED  
05 APR 25 PM 1:51  
FACILITIES OPERATIONS CENTER  
FORT MYERS FL 33901

**Reference: Fort Myers Fishing Pier  
Crack Repair Types**

Dear Baxter:

In accordance with the agreements reached at our April 15, 2005 meeting, outlines of the various types of crack and spall repairs anticipated on the Fishing Pier are transmitted by this letter.


If upon further inspection, structural members are in a dynamic situation, these areas or members would require further design for repair or replacement. This situation cannot be anticipated at this time.

Also transmitted by a copy of our December 13, 2004 correspondence with Lee County, is a tentative phasing plan for the work to be done. Please note that an Item 2 (a) should be added to this plan for the visual inspection of the cracks and spall areas when the scaffolding is in place.

Our recommendations for repairs of the pier caps will favor Type A & B repairs. Epoxy resin pressure-injected does not stop the reinforcement corrosion. As the corrosion continues, the outward pressure of the corrosion material (ferrous oxide) will produce more cracks. A longer term solution is a repair wherein the concrete is removed around the corroded reinforcement and a proper spall repair accomplished.

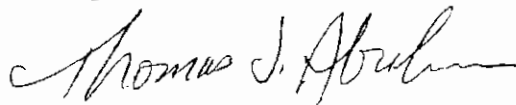
Should there be a question, please call me.

Sincerely,  
**Pyper Engineering, Inc.**



Andrew M. Pyper, P.E.  
President

**Pyper Engineering, Inc.**



Thomas J. Abraham, P.E.  
Vice President

AMP/TJA/lds

encl: As stated



## DRAFT MATERIAL SPECIFICATIONS

Sika Corporation provided up-to-date manufacturer recommended repair products. Sika is one of the leading companies manufacturing concrete repair products and represents an industry standard for this type of work. Listed are the Sika products with the specifications attached. However, other equally effective products are available and the Specifications should be considered generic.

Armatec 110 is a three (3) component bonding agent and anti-corrosion coating.

Monotop 611 is a one (1) component silica fume-enhanced, polymer modified, Portland cement mortar.

Sikadur 31, Hi-Mod Gel is a two (2) component structural paste adhesive used to seal crack areas to be injected.

Sikadur 52 is a two (2) component epoxy adhesive for sealing and bonding cracks.

Ferrogard 903 is a corrosion inhibiting agent.

Sikatop 144 is a two (2) component cementitious protective coating.

## CONCRETE RESTORATION WORK

### Part I General

#### 1.01 Summary

- A. The extent and limit of restoration shall be as designated by the Project Manager.

### Part II Products

#### 2.01 Manufacturers and Materials

- A. The Contractor shall use materials specified in the materials section of this document.

### Part III Execution

#### 3.01 Concrete Restoration

##### A. Spall Repair

For repairing areas of spalled or hollow sounding concrete, remove all loose concrete until sound concrete is reached. Concrete shall be removed around all exposed reinforcing to allow for  $\frac{3}{4}$ " clearance all around the reinforcing. Saw cut edges of affected area to minimum  $\frac{1}{4}$ " maximum  $\frac{1}{2}$ " depth using straight-edged regular shaped patterns. Clean exposed reinforcing using power hand tools or sand blasting to expose bare metal. Coat the exposed reinforcing with cementitious bonding/reinforcement protection agent. Fill area of repair with a two-component polymer-modified cementitious, non-sag with a penetrating corrosion inhibitor.

##### B. Crack Repair

The concrete crack shall be prepared with high pressure water blasting. All foreign matter shall be removed. Epoxy crack injection shall be accomplished within 24 hours of crack preparation in accordance with a low viscosity, moisture tolerant epoxy resin in accordance with the manufacturer's specifications.



## CONCRETE COATING

### Part I General

#### 1.01 Summary

Upon completion of the concrete restoration work, the pier caps and columns are to be coated with a corrosion inhibitor and a grey colored protective coating.

### Part II Products

#### 2.01 Manufacturer and Materials

A. The Contractor shall use materials specified in the materials section of this document as supplied by Lee County to accomplish the concrete coating work.

### Part III Execution

#### 3.01 Concrete Coatings

##### A. Corrosion Inhibitor

1. Repair all the spalled and cracked concrete. The concrete surface to be treated with the corrosion inhibitor shall be cleaned with a pressure washing system and left to air dry for a minimum of 48 hours prior to the application of the material, the drier the better. The pressure washer shall have a minimum psi rating of 3500 psi and used with a "0" degree oscillating tip to provide a light abrasion to open the concrete pores and ensure sufficient cleaning of the concrete.
2. The concrete must be surface dry. The corrosion inhibitor material will be applied in accordance with SC-203 attached.

##### B. Surface Coating -- Grey Color

1. The concrete surface to be treated with the surface coating shall be cleaned with a 300 psi  $\pm$  50 psi pressure washing system prior to the application of the material. This work shall not take place within 48 hours of the last application of the corrosion inhibitor. The surface coating material will be applied in accordance with SC-057 attached. If a second coat is applied within 4 hours, no further preparation is required.

2. Surface, air and materials shall not be lower than 40 degrees Fahrenheit during application. Do not apply when temperature is expected to fall below 40 degrees Fahrenheit within 12 hours.
3. Weather should be clear, with moderate breeze. There shall be no precipitation during application, nor none expected for four (4) hours following application.
4. The Contractor or applicator shall provide protection for any glass or aluminum to avoid over-spray. In the event over-spray occurs, remove spill promptly to guard against potential etching glass and/or dulling of aluminum.
5. The Contractor or applicator shall examine the areas and conditions under which work of this section will be performed for conformance with the manufacturer's specifications. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.
6. Owner/manufacturer's representative shall be contacted 48 hours prior to application to conduct random water permeability test as required over the work area to verify surface preparation.

EXHIBIT B

Project FMB CON RESTORATION  
 Owner LEE COUNTY  
 Estimator BED  
 SF

Location FORT MYERS BEACH Job No.  
 Architect Date 2/27/2006  
 Checked Sheet

SPEC	DESCRIPTION	S.F. Cost	LABOR	MAT.	SUB.	TOTAL	SUB/VENDOR
	GENERAL REQUIREMENTS		-	-	-	9,450	
	CONC RESTORATION LABOR & EQUIP		-	-	-	514,200	
	MATERIAL		-	-	-	65,000	
	LONGSHOREMAN REQUIREMENTS		-	-	-	58,000	
			-	-	-	-	
			-	-	-	-	
	CONTINGENCY		-	-	-	60,000	
	BOND		-	-	-	18,000	
	GEN LIABILITY INSURANCE					9,000	
	BUILDERS RISK					27,000	
	<b>TOTAL COST</b>					<b>760,650</b>	
	CM FEE					55,639	
	<b>GRAND BUDGET TOTAL</b>					<b>816,289</b>	