



MANATEE COUNTY FLORIDA

email

January 22, 2010

TO: All Interested Bidders

SUBJECT: Invitation for Bid #10-0018DC
Roof Replacement @ MSO Central Jail

ADDENDUM #2

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

1. Metal Roof Specification Section 07610 revised page 7 is attached.
2. **QUESTION** from Kirk B. Ochs, Cadamar Group: Currently the metal roofing system that is being specified, suggests that installation does not require a "bearing board" on the steel decking and is to be installed directly to the corrugated steel decking substrate. *Most* metal roofing manufacturers of architectural standing seam require a secondary substrate to receive waterproofing underlayment and support the panel. Can the bidding contractor deviate from the installation method and include a nominal thickness of insulation to be fastened to the steel decking, receive the required 'peel and stick' underlayment and then install the standing seam panel to achieve the desired warranties?

RESPONSE: The metal roofing system shall be installed directly to the corrugated steel decking substrate. Deviation from the installation method as described in the specifications is not acceptable. Warranties shall be per the project specifications.

Financial Management Department - Purchasing Division
1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205
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www.mymanatee.org

3. **QUESTIONS** from Dan Arnold:

- a. Will the County require sealed drawings from an engineer or the manufacturer for the metal roofing system? **RESPONSE:** Metal roofing system shall have a NOA or Florida Product Approval that was signed by a Florida Professional Engineer. Additional drawings signed and sealed are not necessary unless details vary from NOA or Florida Product Approval, which will be subjected to a review.
 - b. I do not see where Metal Roofing Contractors, Inc nor Semco Company as having either Miami-Dade or a Florida product approval over a metal deck. Can this be verified? **RESPONSE:** http://www.floridabuilding.org/pr/pr_app_srch.aspx Florida Product Approval 11931.4 for SEMCO.
 - c. As far as I am aware all metal roofing manufacturers will require a minimum of a 1/4" thermal barrier board to be installed directly over the steel decking prior to installing the roofing system. They will not issue a warranty under the original specifications. Also I know of no one that has testing approval over a metal deck without it. **RESPONSE:** We understand there are roofing manufacturers that will provide the specified warranty without a 1/4" thermal barrier board. Although a maximum 1/4" thermal barrier board will be acceptable for installation between the steel deck and metal roof. Plywood will not be acceptable nor will other substrates that change the existing conditions.
 - d. Is the county willing to supply whatever architectural roof drawings they have available to the low bidder so that they may verify quantities of the roof systems and as well use them to get engineered shop drawings? **RESPONSE:** Manatee County will share available drawings with the awarded bidder. Due to security concerns the Manatee County Sheriff Office will dictate the policy concerning duplication of drawing. Because of security concerns, the available plans will not be made available during the bidding process to the public.
4. As part of the membrane roof restoration (Option 1) or replacement (Option 2), the existing walkway pads and components are to be completely removed and replaced with like product.
5. Lightening Protection System:
- a. Option 1 – Contractor is required to remove the existing lightening protection system prior to applying the coating system and reinstall the existing lightening protection system into its original bracket and performing condition.
 - b. Option 2 – Contractor shall remove and replace the existing lightening protection system with like product in accordance with the National Fire Protection Association (NFPA)790 Standard.

6. SUBSTITUTION EVALUATION RESULTS

SUBMITTER	MANUFACTURER	EVALUATION RESULTS
Mike Renninger	Flex Membrane Roofing Systems ((thermoplastic)	Approved
Drexal Metals Corp	DMC 200S 24g (metal)	Approved
	TRINAR Finishes	Approved
Mike Renninger	Architectural Building Components (metal) – structural panels	Approved
Kirk B. Ochs Cadamar Group	Firestone UC-3 Dbl Lock Metal Roofing Panel	Not equivalent – does not meet wind pressures.
Matthew Hutchison ATLAS International	ATLAS International (metal)	Not equivalent – aluminum not acceptable, nor attachment to plywood substrate
Dan Arnold Kehrer Brothers Construct	Firestone Metal Roofing System (metal)	Not equivalent – finish warranty
Angie Taylor Modern Metal Systems, Inc.	Ultra Seam Roofing System (metal)	Not equivalent – in respect to 1” isolation board, ½” dense deck, and 16ga open framing
Mike Renninger Flex Roofing Systems	Sealoflex (elastomeric)	Not equivalent - Does not meet requirements for the top coat thickness.
Michael Hellgren Roofing Technologies Inc.	Republic Powder Metals Geogard (elastomeric)	Not equivalent - warranty

Bids will be received at Manatee County Purchasing, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 until **January 28, 2010 at 3:00 P.M.**

Sincerely,



Deborah Carey-Reed
 Construction Buyer

/dcr
 Attachment

**SECTION 07610
SHEET METAL ROOFING**

2.02 Metal Roofing Panels and Accessories

- A. Panel system shall be a double-locked standing seam, fully crimped system, with pencil ribs, with sealant applied at the panel interlock. The panels shall have a baked on finish as specified in paragraph 2.04 hereunder, in Manufacturer's standard colors.
- B. Substrate: Existing structural steel deck – repairs may be necessary at deficient locations.
- C. Performance:
 - 1. Panel shall meet the requirements of Underwriter's Laboratories, Inc. for Class 90 wind uplift resistance.
 - * 2. Air Infiltration: no greater than 0.046 cfm / square foot with 1.57 psf air pressure differential when tested in accordance with ASTM E283 or 0.014 cfm / square foot with 1.57 psf air pressure differential when tested in accordance with ASTM E1680.
 - 3. Water Resistance: When tested for 5 gallon per minute spray for 15 minutes duration at each test pressure of 1.57 PSF, 6.24 PSF, 12.5 PSF and 15.a PSF, there shall be no evidence of water penetration, per ASTM E-331.
 - 4. Panel shall display a flame spread classification of Class B per 1505.3 of FBC. *
 - 5. Panel shall be tested and conform to the requirements of the modified ASTM E-330 static pressure differential test.
 - 6. Panel shall be tested and conform to the requirements of the Florida Building Code, current addition.
 - 7. Panel shall be tested and conform to requirements of the ASTM E-1592 up-lift test or UL580 or TAS125.
 - 8. All endwall trim and roof transition flashing shall allow the roof panel to move relative to the wall panel and/or the parapet as the roof expands and contracts with temperature change.

2.03 Fabrication

- A. Panel Construction: Panels shall be uniformly dimensioned, roll-formed to exact lengths to avoid trimming. The panel system shall be anchored as recommended by the Manufacturer. All Fasteners shall be concealed. Panels shall be continuous from ridge to eaves with no end laps. There shall be no face penetration of panels, except as approved by ENGINEER for securing panels to facilitate directional expansion and contraction.
- B. Flashing and Trim: All exposed standard or special flashings and trim and such other break-formed materials in the same gauge, color and finish to match the roofing panels shall be furnished with protective strippable film to be removed upon installation.
- C. Accessories such as clips, closures, fasteners, etc. shall be as recommended by the Manufacturer.

2.04 Finish – (Thirty Year Warranty)