



**COUNTY OF SOLANO  
DEPARTMENT OF GENERAL SERVICES  
NUT TREE AIRPORT**

**INVITATION FOR BIDS  
IFB: 91066-0628-17**

**HANGAR A ROOF REHABILITATION PROJECT**

Closing Date: July 26th, 2017, 11:00 AM (PDT)

AVAILABLE AT [www.solanocounty.com](http://www.solanocounty.com), [www.CalBx.com](http://www.CalBx.com) and  
[www.QuestCDN.com](http://www.QuestCDN.com)

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**DEPARTMENT OF GENERAL SERVICES**  
Airport Division



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Vacaville, CA 95688  
[airport@solanocounty.com](mailto:airport@solanocounty.com)  
[www.FlyNutTree.com](http://www.FlyNutTree.com)

June 28, 2017

**COUNTY OF SOLANO  
INVITATION FOR BIDS  
NO. 91066-0628-17**

**HANGAR A ROOF REHABILITATION PROJECT**

Notice is given that sealed bids will be received at the Nut Tree Airport, 301 County Airport Road, Suite 205, Vacaville, CA, 95688, until **July 26, 2017, 11:00 AM** (local time), at which time the bids will be publicly opened.

The Hangar A Roof Rehabilitation Project involves repairing and sealing a steel roof of an approximately 8,270 square foot hangar building pursuant to required project Bid Documents including Project Plans and Specifications.

Bid Documents including Plans and Specifications for the Hangar A Roof Rehabilitation Project are available on the Solano County website - [www.solanocounty.com](http://www.solanocounty.com), or from [www.CalBx.com](http://www.CalBx.com), or [www.QuestCDN.com](http://www.QuestCDN.com). The Quest CDN service provides automatic notice regarding any addenda on the Project that may be issued by the County, and compiles a plan holders list for interested contractors. The County will not be tracking or compiling a plan holders list on the Project.

Bids must be received by the County of Solano, Nut Tree Airport, 301 County Airport Road, Suite 205, Vacaville, CA, 95688, by no later than **July 26, 2017, 11:00 AM** and must be labeled: "**IFB No. 91066-0623-17 Hangar A Roof Rehabilitation Project**".

Any bidder wishing that their bid to be considered is responsible for making certain that its bid is received in the Airport Office at the above address and stated deadline. Bids must bear original signatures and figures. Only hard copy original completed bid submissions will be considered. Bids received after the scheduled bid submittal deadline will be retained on file but will remain unopened. It is the responsibility of the bidder to see that any bid submitted shall have sufficient time to be received by the Airport Office before the above stated bid submittal deadline. The receiving time at the Nut Tree Airport will be the governing time for acceptability of bids. Late bids will not be considered.

The County of Solano, in compliance with the Americans with Disabilities Act of 1990, will provide accommodations for persons with disabilities who attend the Pre-Bid Meeting or Bid Opening that are identified in the online Bid Documents. If you have the need for an accommodation, such as, interpreters or materials in alternative format, please contact the Nut Tree Airport at 301 County Airport Road, Suite 205, Vacaville, CA, 95688, (707) 469-4600.

IFB No.: 91066-0628-17  
Submission Date: July 26<sup>th</sup>, 2017, 11:00 AM

**COUNTY OF SOLANO  
INVITATION FOR BIDS  
BID NO.: 91066-0628-17**

**HANGAR A ROOF REHABILITATION PROJECT**

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## **SECTION 1 - STATEMENT OF PURPOSE**

1. The purpose of this Invitation for Bids (IFB) is to define the County's minimum requirements, and gain adequate information by which the County may evaluate services or commodities offered by vendors or Contractors. As used herein, the term Contractor shall mean the Contractor or vendor, its employees, or agents.

2. The County of Solano, hereinafter referred to as the County, is soliciting bids for roof rehabilitation for the County's Nut Tree Airport, Hangar A located at 300 County Airport Road, Vacaville, CA 95688. This solicitation is for the project as described in the Bid Specifications and Scope of Work (Section 5) and the project drawings and specifications.

3. PUBLIC WORKS CONTRACT: Contractor must be registered with the Department of Industrial Relations, (DIR). Contractor shall furnish all tools, equipment, labor and any other requirement necessary to complete the scope of work specified within the guidelines as provided by this IFB in its entirety. This is a public works job and prevailing wages are required. This IFB details deliverables and terms and conditions as required by the County.

4. IFB Coordinator:

The following Coordinator shall be the main point of contact for this IFB:

Mary Gonzales  
Nut Tree Airport  
301 County Airport Road, Suite 205  
Vacaville, CA 95688  
Voice: (707) 469-4600  
Email: [megonzales@solanocounty.com](mailto:megonzales@solanocounty.com)

## **SECTION 2 - SCHEDULE OF EVENTS**

The following table identifies the IFB Schedule of Events and the County's best estimate of the schedule that shall be followed. Unless otherwise specified, the time of day for the following events shall be between 8:00 a.m. and 5:00 p.m., Pacific Daylight Time. A Contractor's failure to submit a bid as required on or before the deadline shall cause the bid to be disqualified.

The County reserves the right, at its sole discretion, to adjust this schedule as it deems necessary. Bidders are advised to review this Bid for addendums at [www.solanocounty.com](http://www.solanocounty.com), [www.CalBx.com](http://www.CalBx.com) or [www.QuestCDN.com](http://www.QuestCDN.com).

## Schedule of Events

	EVENT	DATE	TIME
1	County Issues Invitation For Bid (IFB)	6-28-17	5:00 PM
2	Deadline for Potential Contractors or Vendors with a Disability to Make Accommodation Requests	7-3-17	5:00 PM
3	<p><b><u>Pre-Bid Conference – “MANDITORY”</u></b></p> <p>Location of Conference: Nut Tree Airport – 1<sup>st</sup> Floor Meeting Room 301 County Airport Road Vacaville, CA 95688</p> <p>Followed by Project Site Walk.</p>	7-12-17	8:30 AM – 10:30 AM
4	Deadline for Written Comments / Questions	7-17-17	12:00 PM
5	County Issues Responses to Written Comments	7-20-17	5:00 PM
6	<p><b>Deadline for Submitting a Bid and County Bid Opening</b></p> <p><b>Bid Opening Location:</b> Nut Tree Airport 301 County Airport Road, Suite 205 Vacaville, CA 95688</p>	<b>7-26-17</b>	<b>Bid Opening 11:00 am</b>
7	County Issues a Notice of Intent to Award	7-28-16	5:00 PM
8	Estimated County Contract Award	8-22-17	-
9	Notice to Proceed Issued to Awarded Contractor	8-23-17	-
10	Mobilization	21 Calendar Days	-
11	Construction Schedule	8 Calendar Days	

The above Construction Period Schedule is the County’s best estimate at the time of this IFB issuance. The Construction Period Schedule may be subject to change.

### **SECTION 3 - INSTRUCTIONS TO BIDDERS**

**1. INFORMED BIDDERS.** Before submitting bids, bidders must fully inform themselves of the conditions, requirements and specifications of the products or materials to be furnished. Failure to do so will be at bidder's own risk and they cannot secure relief on the plea of error.

**2. BID FORMS.** Bid must be submitted on pre-printed bid(s) form supplied by the Purchasing Services Office, which is included in this solicitation.

**3. PRICES, NOTATIONS, AND MISTAKES.** All prices and notations must be ink or typewritten. Mistakes may be crossed out and corrections typed or printed adjacent to the mistake and initialed in ink by the person who signs bid. Prices shall be stated in units and quotations made separately on each item. In case of conflict, unit prices will govern. Where there is a conflict between words and figures, words will govern.

**4. INTENTIONALLY LEFT BLANK**

**5. TERMS OF THE OFFER.** Solano County's acceptance of bidder's offer shall be limited to the terms herein unless expressly agreed in writing by Solano County. Bids offering terms other than those shown herein will be declared non-responsive and will not be considered.

**6. BIDDER AGREEMENT TO TERMS AND CONDITIONS.** Submission of a signed bid will be interpreted to mean bidder has agreed to all the terms and conditions set forth in the pages of this solicitation.

**7. CANCELLATION OF CONTRACT.** The County of Solano may cancel this contract without cause at any time by giving thirty (30) days written notice to the supplier/vendor. The County of Solano may cancel this contract with cause at any time by giving ten (10) days written notice to the vendor. Cancellation for cause shall be at the discretion of the County of Solano and shall be, but is not limited to, failure to supply the service specified within the time allowed or within the terms, conditions, or provisions of this contract. The successful bidder may not cancel this contract without prior written consent of Purchasing Services.

**8. COMPLIANCE OR DEVIATION TO SPECIFICATIONS.** Bidder hereby agrees that the services offered will meet all the requirements of the specifications in this solicitation unless deviations from them are clearly indicated in the bidder's response. Bidder may submit an attachment entitled "Exception to Specifications," which must be signed by bidder's authorized representative. An explanation must be made for each item to which an exception is taken, giving in detail the extent of the exception and the reason for which it is taken. Bids failing to comply with this requirement will be considered non-responsive. Submittal of brochure or other manufacturer literature is desirable, but shall not be an acceptable substitution for the requirement. The County reserves the sole and independent right to accept or reject any exception or deviation in whole or part. Any such acceptance, in whole or in part, shall be in the best interest of the County.

**9. COMPLIANCE WITH LAWS.** All bids shall comply with current federal, state, local and other laws relative thereto.

**10. FORCE MAJEURE.** If execution of this contract shall be delayed or suspended and if such failure arises out of causes beyond the control of and without fault or negligence of the Vendor,

the vendor shall notify the County of Solano, in writing, within twenty-four (24) hours, after the delay. Such causes may include but are not limited to acts of God, war, acts of public enemy, acts of any governmental entity in its sovereign or contractual capacity, fires, floods, epidemics, strikes and unusually severe weather.

11. FORMATION OF CONTRACT. Bidder's signed bid and Solano County's written acceptance shall constitute a binding contract.

12. LAWS GOVERNING CONTRACT. This contract shall be in accordance with the laws of the State of California. The parties stipulate that this contract was entered into in the County of Solano, in the State of California. The parties further stipulate that the County of Solano, California, is the only appropriate forum for any litigation resulting from a breach hereof or any questions risen here from.

13. NOMENCLATURES. The terms successful bidder, supplier, vendor, and Contractor may be used interchangeably in this solicitation and shall refer exclusively to the person, company, or corporation with whom the County of Solano enters into a contract as a result of this solicitation.

14. SELL OR ASSIGN. The successful bidder shall not have the right to sell, assign, or transfer, any rights or duties under this contract without the specific written consent of the County of Solano.

15. SEVERABILITY. If any provisions, or portions of any provisions, of this contract are held invalid, illegal, or unenforceable, they shall be severed from the contract and the remaining provisions shall be valid and enforceable.

16. BID PREPARATION. Solano County shall not pay for any information herein requested, or is it liable for any costs incurred by prospective bidders.

17. PROMPT PAYMENT TERMS. Normal payment terms are net 30 days after receipt of invoice.

18. TAXES-SALES. California sales tax should be shown separately on the bid form, when and where indicated (if not indicated on bid sheet do not include in your bid).

19. TAXES, FEDERAL EXCISE. The County of Solano is exempt from federal excise tax.

## 20. DEADLINE FOR BID SUBMITTALS

The time of day for the following events shall be between 8:00 a.m. and 5:00 p.m., Pacific Time.

21. Bids must be submitted on or before the submission date and time. Contractors shall respond to the IFB and any exhibits, attachments, or amendments. A Contractor's failure to submit a bid as required on or before the deadline shall cause the bid to be disqualified.

## 22. BID SUBMITTAL

Bids must be submitted on preprinted form(s) supplied herein.

a. The County will not pay any costs associated with the preparation, submittal, or presentation of any bid. All bids must be in sealed envelopes, delivered to the Nut Tree Airport addressed as follows:

**Nut Tree Airport  
301 County Airport Road, Suite 205  
Vacaville, CA 95688**

**BID SUBMITTAL DEADLINE AND COUNTY BID OPENING: July 26, 2017; 11:00 AM (PDT)  
BID NO.: 91066-0628-17**

Envelopes not properly addressed, clearly specifying “**IFB No. 91066-0623-17 Hangar A Roof Rehabilitation Project**” may be cause for rejection of your bid.

b. Contractors assume the risk of the method of dispatch chosen. The County assumes no responsibility for delays caused by any delivery service. Postmarking by the due date shall not substitute for actual receipt by the County. Late bids will not be accepted, nor shall additional time be granted to any potential Contractor.

c. Bids may not be delivered orally, by facsimile transmission, or by other telecommunication or electronic means.

#### 23. BID AMENDMENT

The County shall not accept any amendments, revisions, or alterations to bids after the deadline for submittal.

#### 24. BID WITHDRAWAL

To withdraw a bid, Contractor must submit a written request, signed by an authorized representative, to the Bid Coordinator prior to the official deadline / submittal date and time. After withdrawing a previously submitted bid, the Contractor may submit another at any time up to the deadline for submittals.

#### 25. BIDS FOR ADDITIONAL SERVICES

INTENTIONALLY BLANK

#### 26. BID ERRORS

Contractors are liable for all errors or omissions contained in their bids. Contractors will not be allowed to alter documents after the deadline for submitting bids.

#### 27. CONFLICT OF INTEREST

By submitting a bid, the Contractor certifies that no amount shall be paid directly or indirectly to an employee or official of the County of Solano as wages, compensation, or gifts in exchange for acting as an officer, agent, employee, subcontractor, or consultant to the Contractor in connection with the procurement under this IFB.

#### 28. NON-DISCRIMINATION

No person shall be excluded from participation in, be denied benefits of, be discriminated against in the admission or access to, or be discriminated against in treatment or employment

in the County's contracted programs or activities on the grounds of disability, age, race, color, religion, sex, national origin, or any other classification protected by federal or California State Constitutional or statutory law; nor shall they be excluded from participation in, be denied benefits of, or be otherwise subjected to discrimination in the performance of contracts with the County or in the employment practices of the County's Contractors. Accordingly, all vendors entering into contracts with the County shall, upon request, be required to show proof of such nondiscrimination and to post in conspicuous places.

### 29. RIGHT TO REFUSE PERSONNEL

Any personnel involved in this service shall submit to a criminal history screening during the contract period, if directed by the County at Contractor's sole expense. The County reserves the right to refuse, at its sole discretion, any subcontractors or any personnel provided by the prime Contractor or its subcontractors that fails to submit to screening or for any other reason that is in the best interest of the County.

### 30. LICENSURE

The Contractor must hold all necessary and applicable insurance, as well as all business and professional licenses. The County may require any or all Contractors to submit evidence of proper documents.

### 31. PROTESTS

Any actual or prospective bidder, offeror, or Contractor who is aggrieved in connection with the solicitation or award of a contract may protest to the Director of General Services. The protest shall be submitted in writing to the Director of General Services within seven (7) calendar days after such aggrieved person or company knows or should have known of the facts giving rise thereto. The protesting Contractor/vendor shall file a detailed statement specifying the grounds for the protest. The protest letter must be mailed to the Airport Manager, 301 County Airport Road, Suite 205, Vacaville, CA, 95688.

### 32. CONTRACT AWARD

The bidder awarded the contract by the County will be issued a Notice to Proceed and County Purchase Order.

### 33. CONTRACT MONITORING

The Contractor shall be responsible for the completion of all work services set out in the contract. All work services are subject to inspection, evaluation, and acceptance by the County. The County may employ all reasonable means to ensure that the work is progressing and being performed in compliance with the contract. At reasonable times, the County may inspect those areas of the Contractor's place of business that are related to the performance of the contract. If the County requires such an inspection, the Contractor shall provide reasonable access and assistance.

### 34. CONTRACT AMENDMENT

If during the course of this contract, additions to and/or deletions from services provided are required as a result of changes to any statute, bylaw or regulation, the County shall notify the Contractor. Added work shall be within the general scope of this IFB. In such instances, the

County shall provide the Contractor a written description of the additional work, and the Contractor shall submit a time schedule for accomplishing the additional work and a price for the additional work based on the rates included in the Contractor's bid. If the County and the Contractor reach an agreement regarding work services and associated compensation, said agreement shall become effective by means of a contract amendment. Any such amendment requiring additional work must be mutually agreed upon by the parties and signed by the Contractor, and must be approved by other County officials as required by County laws and regulations. The Contractor shall not commence additional work until the County has issued a written contract amendment and secured all required approvals.

#### **SECTION 4 - GENERAL PROVISIONS**

1 Each bid must be in accordance with the bid documents, plans and specifications. Bid documents (bid package) may be downloaded from the: [www.solanocounty.com](http://www.solanocounty.com), [www.CalBx.com](http://www.CalBx.com) or [www.QuestCDN.com](http://www.QuestCDN.com), or may be obtained from the Nut Tree Airport office, located at 301 County Airport Road, Suite 205, Vacaville, CA, 95688, Monday through Friday (except County Holidays), from 8:00 am to 5:00 pm Pacific Daylight Time.

2.0 **A "Mandatory", Pre-Bid Conference and job walk will be held on Monday, July 12th, 2016 (8:30 AM – 10:30 AM PDT) at the Nut Tree Airport, 301 County Airport Road, First Floor Meeting Room, Vacaville, CA 95688.**

2.1 Each vendor may send up to two (2) representatives to the Pre-Bid Conference. The purpose of the conference is to discuss the County's requirements with the prospective Bidders and allow them to ask questions, provide an opportunity to tour the Hangar A site and roof area, and familiarize themselves with the general local and site conditions that may affect the work and to answer questions regarding the IFB.

Note that a portion of the site walk will be conducted on the roof of Hangar A Access to the roof will be provided by lift equipment Notify the IFB coordinator Mary Gonzales at [megonzales@solanocounty.com](mailto:megonzales@solanocounty.com), if special accommodations need to be made.

2.2 The response to any question that is given orally at the pre-bid conference is to be considered tentative and nonbinding on the County. After the conference, bidders may submit their questions in writing by no later than July 17, 2017, 12:00 P.M. Questions may be e-mailed to the IFB coordinator Official County responses to questions shall be published in writing by the date specified on the Schedule of Events found in Section 2 of this Bid package. This shall ensure accurate, consistent responses to all Contractors.

The County shall issue an amendment as necessary to this IFB to reflect its response to questions and/or address any additions or deletions to this IFB as a result of discussion at the pre-bid conference. Only the written responses from the County shall be considered official. The amendment will be posted at: ([www.solanocounty.com](http://www.solanocounty.com)), [www.CalBx.com](http://www.CalBx.com) and [www.QuestCDN.com](http://www.QuestCDN.com)

3. **For this solicitation the Bidder must possess a current Class C-39 Roofing Contractors License; or, a Class B General Contractors License and a Class C-39 License. A Bidder that possesses a Class B License may subcontract to a contractor that possesses a current Class C-39 License. All Contractors and sub-Contractors must be registered with the California Department of Industrial Relations ("DIR") pursuant to Cal. Labor Code section 1725.5.**

4. Provide listing of work in the last 5 years. Indicate size of projects; general specifications, year completed, type of projects and total project values. Include references from five individuals/firms on the list. A reference form is contained in Attachment 5 of the bid package. It is required that Bidders return this reference form with bid submittal .
5. Solano County forms will be provided in this bid package and must be used for all bids. Bidders shall read and review all bid documents carefully and shall familiarize themselves thoroughly with all requirements. Call the IFB Coordinator if there are questions regarding this bid package.
6. A bid bond or certified check in the amount of 10% of the bid is required with submitted bid (see Attachment 6).
7. Within five (5) days after issuance of the Notice to Proceed, the successful bidder shall be required to furnish Payment and Performance Bonds in an amount equal to 100% of the contract amount.
8. Bids shall not expire for a period of Ninety (90) days from the bid close date; and during the project once commenced unless otherwise approved through a change order process by Solano County.
9. Wage rates and restrictions on working days and times shall meet all requirements of the Labor Code of the State of California for public contract. The bidder may contact the Director of the Department of Industrial Relations, phone number (415) 703-4774, [www.dir.ca.gov](http://www.dir.ca.gov) (website), to obtain a schedule of the general prevailing wages applicable to the location and work to be done. The Contractor and the Contractor's subcontractors are responsible for compliance with the requirements of Section 1777.5 and 1777.6 of the Labor Code of the State of California regarding employment of apprentices.
10. The County will make a bid selection based on lowest responsive and responsible bidder meeting the minimum qualifications. If only one bid is received, the County reserves the right to negotiate with the responding Contractor. If no bids are received, the County reserves the right to identify interested Contractor(s) and negotiate directly without re-bidding.
11. Award will be made by way of Solano County contract and must be approved by all appropriate parties including the Solano County Board of Supervisors. Please see Section 7 (Solano County Standard Contract) Note that the County's Contract Terms and Conditions are non-negotiable. If Bidder wishes to contest items contained within the County's Standard Terms and Conditions, please cite reference section of such and specific grievance with cited reference, and include with bid package. If no grievance is cited, County assumes full compliance by prospective Bidder.

## SECTION 5 - BID SPECIFICATIONS AND SCOPE OF WORK

**NOTE: This project is subject to the receipt of permits/authorizations required by the by federal, state, and local agencies.**

### 5.0 Project Cost Estimate and Project Schedule

#### Project Cost Estimate

The cost of the Hangar A Roof Rehabilitation Project as described in this Scope of Work is estimated at \$60,000.

#### Project Schedule

Project Mobilization – 21 Calendar Days (estimated Notice to Proceed - August 24, 2017)

Construction - 8 Calendar Days

### 5.1 General

The Bid Specifications and Scope of Work for the Hangar A Roof Rehabilitation Project are as described by this Section; and include all specifications and requirements as identified in the Project Plans and Specifications contained in in this IFB which are incorporated here by this reference. The Solano County Department of General Services, Nut Tree Airport wishes to rehabilitate the existing roof of Hangar A, located at 300 County Airport Rd. This will include preparation of the roof for recoating, including joint/fastener resealing and power-washing. The entire roof area will be recoated with an Elastomeric coating as specified in the bid set specifications and described within the project drawings.

Existing Antennas on the roof shall be protected / removed as noted in the bid documents, while one main antenna support wires will be replaced. Other work includes minor gutter repair, flashing replacement, and roof ventilator refurbishment/ replacement as noted in contract documents. There will be no interior construction work, but protection of the hangar interior as shown on the bid documents will be required.

Fastener replacement is estimated to be between 25-40% of the current fasteners, but it shall be the bidders responsibility to determine the quantity, which is based on the narrative within the Bid Documents

A summary of project activities is as follows -

- Preparation of site, including site protection, and interior protections shall be completed first. Interior protection installation shall be coordinated with the Airport Manager, and 7 business days advanced notice shall be given prior to any installation.
- Removal / protection of existing antennas and corresponding supports to be completed prior to sealant/roof coating preparation.
- New flashing and ventilators to be completed.
- Roof preparation, detail sealant and roof coating to be completed per specifications, roof narrative, bid documents, and manufacturer recommendations.
- Off-site disposal required of all demolished materials, including interior protections. Interior protection removal shall be coordinated with the Airport Manager, and 3 business days notice shall be given in advance of any removal activity.
- Surrounding site and interior spaces

#### **5.1.1 Permits, Measures and Requirements**

- A. Contractor shall comply with all regulatory permits and conditions throughout the performance of the Contract, including the review and approval of the roof coating products with the authority having jurisdiction as required by the 2016 California Energy Efficiency Standards.
- B. Solano County / Airport will supply authorizations for project, including the permit from the Solano County Building Department. Contractor shall register with the Solano County Building Department as the General Contractor for this Permit within 5 calendar Days of the Notice to Proceed.

#### **5.1.2 Staging Area**

- A. Contractor shall conduct project activities within the Staging Area, location to be determined by Contractor and Airport following contract award.

#### **5.1.3 Site Access**

- A. Contractor shall restrict the parking of personal employee vehicles to paved public Airport Parking lot.
- B. Contractor is allowed use of toilet facilities located on the ground floor of 300 County Airport Road. The contractor and their subcontractors not allowed to use restrooms for any construction-related activities, including but not limited to, materials disposal or equipment washing.

#### **5.1.4 Site Clean-Up, Debris and Site Management**

- A. Site cleanup shall occur daily.

- B. The Contractor shall include a Final cleaning after construction activities are completed. Final cleaning shall include the surrounding site/ landscape area, staging area, and interior of the airplane hangar floor.
- C. All trash collection containers shall remain covered to prevent debris from littering the airfield.
- D. The Contractor shall designate a break area, and all lunch breaks will occur in the designated area. Proper trash receptacles with lids shall be maintained in these areas and all debris shall be placed in the receptacles. The receptacles shall be emptied daily and refuse will be removed from the site.
- E. The Contractor shall monitor all areas for loose debris, especially after lunch and break periods.
- F. The Contractor is responsible for ensuring that waste, loose material, and other debris does not migrate off site to become foreign object debris (FOD) on the Airport taxiways. The Contractor shall be responsible for any damage to aircraft caused by FOD resulting from project activities/operations.
- G. Staging and storage areas for equipment and materials shall be confined to the Staging Area.

**END OF SECTION**

**SECTION 6 – BID FORMS AND ATTACHMENTS**

**REQUIRED FORMS  
TO BE  
SUBMITTED WITH BID PROPOSAL**

**BID PROPOSAL FORM**

**NUT TREE AIRPORT  
VACAVILLE, CALIFORNIA**

**HANGAR A ROOF REHABILITATION PROJECT**

**IFB 91066-0628-17**

FROM: \_\_\_\_\_

NAME OF BIDDER \_\_\_\_\_

BUSINESS ADDRESS \_\_\_\_\_

BUSINESS TELEPHONE \_\_\_\_\_ AFTER-HOURS TELEPHONE \_\_\_\_\_

CONTRACTOR LICENSE NUMBER \_\_\_\_\_

California Department of Industrial Relations Registration Number: \_\_\_\_\_  
(Cal. Labor Code section 1725.5)

TO: COUNTY OF SOLANO

The undersigned, as bidder, *under penalty of perjury*, declares that the only persons or parties interested in this proposal as principals are those named herein: that this proposal is made without collusion with any other person, firm, or corporation; that he has carefully examined the location of the proposed work, the proposed form of contract, the Plans and Specifications herein referred to; and he proposes, and agrees if this proposal is accepted, that he will contract with SOLANO COUNTY, in the form of the Contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the Contract in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the following item prices, to wit:

SIGNATURE OF AUTHORIZED AGENT \_\_\_\_\_ DATE \_\_\_\_\_

**RETURN THIS PAGE WITH BID**

# BID SHEET

## IFB 91066-0628-17 HANGAR A ROOF REHABILITATION PROJECT

### PROJECT BID COST

<b>HANGAR A ROOF REHABILITATION PROJECT AS SPECIFIED IN BID DOCUMENTS</b>	
<b>TOTAL BID COST:</b>	<b>\$</b>

COMPANY NAME \_\_\_\_\_

NAME OF AUTHORIZED AGENT (PRINTED) \_\_\_\_\_

SIGNATURE OF AUTHORIZED AGENT \_\_\_\_\_ DATE \_\_\_\_\_

### FILL OUT SECTION BELOW IF WORK NOT BEING SELF-PERFORMED:

SUBCONTRACTOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

TRADE \_\_\_\_\_ LICENSE NO. / CLASS \_\_\_\_\_ PHONE \_\_\_\_\_

SUBCONTRACTOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

TRADE \_\_\_\_\_ LICENSE NO. / CLASS \_\_\_\_\_ PHONE \_\_\_\_\_

SUBCONTRACTOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

TRADE \_\_\_\_\_ LICENSE NO. / CLASS \_\_\_\_\_ PHONE \_\_\_\_\_

SUBCONTRACTOR NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

TRADE \_\_\_\_\_ LICENSE NO. / CLASS \_\_\_\_\_ PHONE \_\_\_\_\_

**Bids must remain valid for ninety (90) days upon intent to award contract.**

**RETURN THIS PAGE WITH YOUR BID**

**NON-COLLUSION AFFIDAVIT**

NON-COLLUSION DECLARATION PURSUANT TO PUBLIC CONTRACT CODE SEC. 7106

The undersigned declares: I am the \_\_\_\_\_ of \_\_\_\_\_, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on  
(date) \_\_\_\_\_, (city) \_\_\_\_\_  
(state) \_\_\_\_\_.

**Company Name** \_\_\_\_\_

\_\_\_\_\_  
**Bidder's Name and Signature**

**RETURN THIS PAGE WITH BID**

**CERTIFICATION OF COMPLIANCE**

IFB \_\_\_\_\_

Contractor Name \_\_\_\_\_

By indication of the authorized signature below, the Vendor does hereby make certification and assurance of the Contractor's compliance with:

- a) The laws of the County of Solano;  
<http://www.solanocounty.com/countycode.asp>
- b) Title VI of the federal Civil Rights Act of 1964;  
<http://www.usdoj.gov/crt/cor/coord/titlevi.htm>
- c) Title IX of the federal Education Amendments Act of 1972;  
<http://www.usdoj.gov/crt/cor/coord/titleix.htm>
- d) The Equal Employment Opportunity Act and the regulations issued there under by the federal government; <http://www.usdoj.gov/jmd/ps/4-1.html>
- e) The Americans with Disabilities Act of 1990 and the regulations issued there under by the federal government; <http://www.ada.gov/pubs/ada.htm>
- f) The condition that the submitted bid was independently arrived at, without collusion, under penalty of perjury;
- g) All contract employees performing services and/or work as a result of this solicitation must have documented legal authority to work in the United States of America; and
- h) The condition that no amount shall be paid directly or indirectly to an employee or official of the County of Solano as wages, compensation, or gifts in exchange for acting as an officer, agent, employee, sub-vendor, or consultant to the Vendor in connection with the Procurement under this IFB

\_\_\_\_\_  
Contractor Name and Signature

\_\_\_\_\_  
Date

**RETURN THIS PAGE WITH BID**

**COUNTY OF SOLANO RESERVATIONS**

**IFB 91066-0628-17**

**County of Solano Hereby Reserves the Following Rights:**

1. Reject any and all bids, or to cancel this IFB in part or in its entirety;
2. Waive any variances in bids provided such action is in the best interest of the County;
3. Amend this IFB at any time;
4. Cancel or reissue the IFB at its sole discretion;
5. Cancel any award and re-solicit bids for services herein specified due to the increased or added costs, if in its opinion increased prices are greater than those of the general market;
6. Cancel any award and re-solicit bids in the event services cannot commence with ten (10) days after the specified date for start of work;
7. Reject any and all bids considered not to be in the best interest of the County;
8. Waive any and all minor irregularities, reject immaterial omissions or defects in bids; and,
9. Reduce or increase any specification, in whole or in part due to budget constraints.

Furthermore, any bid received which does not meet the requirements of this IFB, may be considered to be non-responsive, and may be rejected. The County may reject any bid that does not comply with all of the terms, conditions, and performance requirements of this IFB.

I hereby acknowledge that I have read, understand, and agree to the County's stated rights:

\_\_\_\_\_  
C Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

**RETURN THIS PAGE WITH BID**

**SIGNATURE PAGE, IFB 91066-0628-17**

EVERY SUBMITTAL MUST CONTAIN A FULLY EXECUTED SIGNATURE PAGE, SUPPLYING ALL REQUIRED INFORMATION, SIGNATURE, AND TYPE NAME AND TITLE OF THE INDIVIDUAL LEGALLY AUTHORIZED TO COMMIT THE VENDOR TO A BINDING CONTRACT TO EXECUTE ALL SPECIFICATIONS, PROVISIONS, TERMS AND CONDITIONS CONTAINED HEREIN.

FIRM: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_ Zip: \_\_\_\_\_

BY: \_\_\_\_\_

SIGNATURE

PRINTED NAME

TITLE

DATE

**RETURN THIS PAGE WITH BID**

**EXPERIENCE STATEMENT**

**IFB 91066-0628-17**

List at least five references for Services of this or a similar nature provided to other government agencies within the last three years.

I hereby certify I have provided the equipment to the references listed below.

\_\_\_\_\_  
Signature of Bidder's Authorized Representative

DATE: \_\_\_\_\_

Print Name \_\_\_\_\_ Title: \_\_\_\_\_

Telephone Number \_\_\_\_\_ E-Mail: \_\_\_\_\_

Description of work	Year	Dollar Amount	Contact Name and Address	Phone

**RETURN THIS PAGE WITH BID**

**BID BOND**

**IFB 91066-0628-17**

**- RETURN THIS PAGE WITH BID -  
HANGAR A ROOF REHABILITATION PROJECT**

The Surety Company issuing bond shall be licensed to transact business in the State of California. Bonds shall be certified and current Power-of-Attorney for the Surety's Attorney-in-Fact attached.

**KNOW ALL BY THESE PRESENT:**

That we,

\_\_\_\_\_  
(Name of Principal)

\_\_\_\_\_  
(Address of Principal)

as Principal, hereinafter called the Principal, and

\_\_\_\_\_  
(Name of Surety)

\_\_\_\_\_  
(Address of Surety)

as Surety, hereinafter called the Surety, acknowledge ourselves indebted and securely bound and held unto the County of Solano as Obligee, hereinafter called the Obligee, and in the penal sum of

\_\_\_\_\_  
(Dollar Amount of Bond)

good and lawful money of the United States of America, for the use and benefit of those entitled thereto, for the payment of which, well and truly to be made, we bind ourselves, our heirs, our administrators, executors, successors, and assigns, jointly and severally, firmly by these presents.

**BUT THE CONDITION OF THE FOREGOING OBLIGATION OR BOND IS THIS:**

**WHEREAS**, the Obligee has engaged the Principal for a sum not to exceed

\_\_\_\_\_  
(Contract Maximum Liability)

to complete Work detailed in the Scope of Services detailed in the County of Solano Request for Bids bearing the IFB Number: 91066-0628-17

and further detailed in a written Contract bearing the Contract Number (assigned by the County of Solano):

---

(Contract Number)

a copy of which said Request for Bids and Contract are by reference made a part hereof, as fully and to the same extent as if copied at length herein.

**NOW, THEREFORE**, if the Principal shall fully and faithfully perform all undertakings and obligations under the Contract hereinbefore referred to and shall fully indemnify and hold harmless the Obligee from all costs and damage whatsoever which it may suffer by reason of any failure on the part of the Principal to do so, and shall fully reimburse and repay the Obligee any and all outlay and expense which it may incur in making good any such default, and shall fully pay for all of the labor, material, and Work used by the Principal and any immediate or remote sub-Contractor or furnisher of material under the Principal in the performance of said Contract, in lawful money of the United States of America, as the same shall become due, then this obligation or bond shall be null and void, otherwise to remain in full force and effect.

**AND** for value received, it is stipulated and agreed that no change, extension of time, alteration, or addition to the terms of the Contract or the Work to be performed thereunder or the specifications accompanying the same shall in any wise affect the obligation under this bond, and notice is waived of any such change, extension of time, alteration, or addition to the terms of the Contract or the Work or the specifications.

**IN WITNESS WHEREOF** the Principal has hereunto affixed its signature and Surety has hereunto caused to be affixed its corporate signature and seal, by its duly authorized officers, on this

\_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ .

**WITNESS:**

\_\_\_\_\_  
(Name of Principal)

\_\_\_\_\_  
(Name of Surety)

\_\_\_\_\_  
(Authorized Signature of Principal)

\_\_\_\_\_  
(Signature of Attorney-in-Fact)

\_\_\_\_\_  
(Name of Signatory)

\_\_\_\_\_  
(Name of Attorney-in-Fact)

\_\_\_\_\_  
(Title of Signatory)

\_\_\_\_\_  
(Solano License Number of Surety)

**RETURN THIS PAGE WITH BID**

## IMPORTANT NOTICE

### BID DOCUMENTS TO BE RETURNED WITH YOUR BID, IFB 91066-0628-17

The following forms must be completed and submitted with bid on or before the Submittal Deadline.

- a. Bid Proposal
- b. Bid Sheet
- c. Non-Collusion Affidavit (Attachment 1)
- d. Certificate of Compliance (Attachment 2)
- e. County Reservations (Attachment 3)
- f. Signature Page (Attachment 4)
- g. Experience Statement (Attachment 5)
- h. Bid Bond (Attachment 6)
- i. Bid Documents Return List (Attachment 7)
- j. Drug Free Workplace Certification (Attachment 8)

Failure to complete, sign (where required), and return the above bid documents with your quote may render this bid non-responsive.

### ACKNOWLEDGEMENT

PRINT NAME \_\_\_\_\_

SIGN NAME \_\_\_\_\_

PRINT NAME \_\_\_\_\_

DATE \_\_\_\_\_

**RETURN THIS PAGE WITH BID**

**DRUG-FREE WORKPLACE CERTIFICATION**

(rev-09/01/94)

COMPANY/ORGANIZATION NAME

The Contractor or grant recipient named above hereby certifies compliance with Government Code Section 8355 in matters relating to providing a drug-free workplace. The above-named Contractor will:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations, as required by Government Code Section 8355(a).
2. Establish a Drug-Free Awareness Program as required by Government Code Section 8355(b), to inform employees about all of the following:
  - (a) The dangers of drug abuse in the workplace;
  - (b) The person's or organization's policy of maintaining a drug-free workplace;
  - (c) Any available counseling, rehabilitation and employee assistance programs; and
  - (d) Penalties that may be imposed upon employees for drug abuse violations.
3. Provide, as required by Government Code Section 8355(c), that every employee who works on the proposed contract or grant:
  - (a) Will receive a copy of the company's drug-free policy statement; and
  - (b) Will agree to abide by the terms of the company's statement as a condition of employment on the contract or grant.

**CERTIFICATION**

I, the official named below, hereby swear that I am duly authorized legally to bind the Contractor or grant recipient to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

Contractor or Grant Recipient Signature

Date

Official's Name (type or print)

Title

Federal Tax I.D. Number

**RETURN THIS PAGE WITH BID**

**SECTION 7 – SOLANO COUNTY STANDARD CONTRACT**

**AGREEMENT BETWEEN OWNER AND CONTRACTOR**

This Agreement is made as of \_\_\_\_\_, 2017 between the County of Solano, a political subdivision of the State of California, (referred to as 'Owner') and the Contractor: \_\_\_\_\_ for the following project:

The Project:           NUT TREE AIRPORT –  
                              HANGAR A ROOF REHABILITATION PROJECT

The Owner and the Contractor agree as set forth below.

**ARTICLE 1**  
**THE CONTRACT DOCUMENTS**

The Contract documents consist of this Agreement, the Notice to Bidders, Plans, Specifications, and Contractor's Bid Submittal which documents are incorporated into and made a part of this Agreement

**ARTICLE 2**  
**THE WORK**

The Contractor shall perform all the Work required by the Contract Documents for the Project

**ARTICLE 3**  
**TIME OF COMMENCEMENT AND SUBSTANTIAL COMPLETION**

The Work to be performed under this Contract shall commence upon issuance of the Notice to Proceed is issued to the Contractor, and shall be carried out and completed according to the schedule set forth in the Specifications and Scope of Work.

**ARTICLE 4**  
**CONTRACT SUM**

The County shall pay the Contractor for the performance of the Work, subject to additions and deductions by Change Order or as otherwise provided in the Contract Documents, the Sum of the Bid for a Contract Sum of \_\_\_\_\_).

**ARTICLE 5**  
**PROGRESS PAYMENTS**

Based upon Applications for Payment submitted to the Project Manager by the Contractor and Project Certificates for Payment issued by the Project Manager, the County shall make progress payments on account of the Contract Sum to the Contractor as provided in the Contract Documents as follows:

Progress Payments: The Contractor shall on or before the first day of each month, make an estimate of the work performed during the preceding month and submit same to the Project Manager for checking and approval. On or about the 20th day of the month following the month in which the work was performed, the County shall pay to the Contractor ninety five (95%) percent of the value of said work in place, as checked and approved by the Project Manager. The balance of five (5%) percent of the estimate shall be retained by the County until the time of final acceptance of said work.

The remaining retention would be held until 35 days after the Notice of Completion is filed with the Solano County Recorder's Office if the following requirements have been met:

1. The Contractor shall be seventy-five (75%) percent complete with the Work, not including stored materials.
2. The Work shall be on schedule.
3. The Contractor shall be maintaining a good practice of schedule and quality control as determined by the Project Manager.
4. Proof of payment to all sub-Contractors shall be provided to the County in the form of unconditional lien release upon progress payment prior to the following application.
5. There are no claims, pending or anticipated.
6. County is satisfied with Contractor's performance and with the Work completed up to, and including, the time of request for reduction in retention.

## **ARTICLE 6** **FINAL PAYMENT**

Final payment, constituting the entire unpaid balance of the Contract Sum, shall be paid by the County to the Contractor when the Work has been completed, the Contract fully performed, the Project Manager has issued a Project Certificate for Payment which approves the final payment due the Contractor, Board of Supervisors of Solano County has formally accepted the project as complete by Resolution and Notice of Completion filed by the County Recorder's Office.

## **ARTICLE 7** **INSURANCE, BONDS, AND INDEMNIFICATION**

- 7.1 Insurance.
  - a. Contractor shall not commence work under this Contract until all insurance has been obtained that is required under this section and such insurance has been verified by the County, nor shall Contractor allow any Subcontractor to commence work on its Contract until all similar insurance required of the Subcontractor has been so obtained and approved. Contractor shall furnish the County with a copy of each required certificate of insurance, as provided below. Contractor shall have the following insurance coverage:
    - b. Workers' Compensation Insurance and Employer's Liability Insurance.

Contractor shall maintain during the life of the Contract, Workers' Compensation Insurance and Employer's Liability Insurance for all of its employees employed on the project as described herein. Said insurance shall comply with the following:

- i. Workers' Compensation Insurance in compliance with the laws of the State of California and any applicable federal statutes.
- ii. Employers liability insurance of not less than one million dollars (\$1,000,000) each accident and one million dollars (\$1,000,000) each employee.

In signing the Contract, Contractor shall make the following certification, required by Section 1861 of the Labor Law: "I am 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 I will comply with such provisions before commencing the performance of the work of this contract."

- c. Automobile and General Liability. Contractor shall have throughout the term of this Contract, policies of liability insurance covering automobile and general liability as follows:

- i. Owned/non-owned and hired automobile liability insurance with primary limits for bodily injury and property damage liability of not less than one million dollars (\$1,000,000) per accident. Umbrella and/or excess liability limits of not less than five million (\$5,000,000) per accident.
- ii. Commercial general liability and/or umbrella excess liability insurance providing coverage on an occurrence basis and with limits of not less than ten million (\$10,000,000) each occurrence and annual aggregate for bodily injury and property damage liability combined including:
  - 1) Premises and operations liability coverage;
  - 2) Owner's and Contractor's protective liability coverage;
  - 3) Broad form property damage liability coverage including completed operations;
  - 4) Blanket contractual liability coverage;
  - 5) Deletion of any limitations relating to liability arising out of explosion, collapse or underground hazards;
  - 6) Personal and advertising injury liability coverage;
  - 7) For excavation and foundations, deletion of any limitation on coverage for bodily injury or property damage arising out of subsidence of soil or earth movement; and

- 8) For demolition and/or hazardous materials removal, deletion of any limitation regarding asbestos and/or lead risk exposure.
- 9) An endorsement specifying that policy aggregate limits apply separately to the project covered by this contract;
- 10) Errors & Omissions
- 11) Products and Completed Operations including five (5) year extension endorsement
- 12) Occurrence Definition to include "Assault and battery committed by, at the direction of or on behalf of any insured for the purpose of protecting the person or property of any insured or of others shall be deemed to be an occurrence."
- 13) Extended Personal Injury definition to include alienation of affections, discrimination, or humiliation.
- 14) Bodily Injury Definition to include mental anguish, shock, mental injury, humiliation, sickness, or disease sustained by a person, including death resulting from any of these at any time.
- 15) Exclusion Property Damage to the Insured's Work to read: "Property damage" to that particular part of "your work" that is defective or actively malfunctions. This exclusion applies only to the "products-completed operation" hazard. It does not apply if the damaged work or the work out of which the damage arises was performed on Contractor's behalf by a subcontractor.
- 16) Contractual Liability – Municipal Work: The phrase "any other contract or agreement pertaining to your business," as included in the definition of an insured contract, includes an indemnification of a municipality required by ordinance and in connection with work performed for the municipality.
- 17) Professional Liability Insurance. Upon execution of this contract, Contractor shall obtain professional liability insurance with limits of at least five million dollars (\$5,000,000) per claim and aggregate which shall cover claims resulting from professional errors and omissions of Contractor and any of its consultants in connection with the work provided such claims arise during the period commencing upon the preparation of the construction documents and ending five (5) years following Final completion. Such insurance shall be in form reasonably acceptable to the County's Risk Manager.
- 18) Subcontractor Insurance. Contractor shall cause all subcontractors engaged to perform work required of Contractor

pursuant to this Contract to have Workers' Compensation, Commercial General Liability/Umbrella and/or Excess Liability, and Automobile Insurance in a form and amount deemed appropriate by the Contractor for work performed under this Contract.

## 7.2 Indemnification.

- a. The Contractor will indemnify and defend the County of Solano and its respective officers, elective and appointive Board, employees and consultants against all loss, expense (including, but not limited to, attorneys' fees and court costs), damage, injury, liability, causes of action or claims of any kind or character (collectively "claims" and individually a "claim"), provided that such claim or claims is/are attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself for claims not covered by insurance which is required under this Agreement) including loss of use resulting there from (except loss of use attributable to a claim otherwise insured as provided under this Agreement), in any way arising out of this Agreement or the Work, including but not limited to the acts or omissions of the Contractor, its partners, officers, directors, employees, agents, licensees, invitees, consultants, vendors, or subContractors of any tier (collectively the "Contractor"). Such indemnification shall include, but not be limited to any claim arising from or caused by:
  - (i) any defect in the construction documents, or the design or construction of or materials used in the Work or in any machine, equipment, appliance, or other item of personal property installed or located therein;
  - (ii) any defect in the preparation of soils or in the design and accomplishment of grading;
  - (iii) any violation or alleged violation by any member of the Contractor of any law existing as of the date of this Agreement or hereafter enacted (provided that with respect to laws enacted after the date of the Design Build Agreement, the Contractor may be entitled to an adjustment in the Contract Sum and/or Contract Time as provided in the Design Build Agreement);
  - (iv) any negligent acts or omissions or other tortious conduct of the Contractor or any member of the Contractor;
  - (v) any accident on the job site or other casualty thereon;
  - (vi) any other cause whatsoever in connection with the Contractor's use of or activities on the job site or the Contractor's performance under this Agreement; and/or
  - (vii) the inaccuracy or incorrectness of any representation or warranty of the Contractor to the County of Solano under this Agreement. Notwithstanding the foregoing, the obligations of the Contractor in this

paragraph are intended to apply only to third party claims arising out of the Agreement or the Work, and not to property damage to the County of Solano, which damage is treated elsewhere in this Agreement.

- b. Neither the County of Solano and its respective officers, elective and appointive Board, employees and consultants shall be liable for any loss or damage that may happen to the Work, or any part of it; nor to any of the materials or other items used or employed in performing the Work; nor for injury to any person or persons, either workers or the public, for damage to property from any cause which might have been prevented by the Contractor, or the Contractor's employees or agents, against all of which injuries or damages the Contractor must properly guard.
- c. The Contractor shall indemnify and hold harmless the County of Solano and its respective officers, elective and appointive Board, employees and consultants, from all suits, actions or claims brought for, or on account of injuries or damages received or sustained by any person or persons, by or from the Contractor, the Contractor's employees or agents, in construction of the Work, or by or in consequence of the Contractor's failure to properly guard the same, or by or as a result of any act or omission of the Contractor, the Contractor's employees or agents.
- d. The Contractor's obligations as described above shall apply only if the Contractor is at fault or negligent (partly or wholly) on its part or on the part of the indemnified parties to the extent allowed by law. Said obligations shall not apply to injury, death, or damage to property to the extent arising from the negligence or the willful misconduct of said indemnified party or its officers, agents, servants, or independent Contractors who are directly responsible to the indemnified party, or for defects of design furnished by such persons but provided further that the foregoing limitations shall not apply to the extent reimbursable through any insurance required by this Agreement.
- e. These obligations of the Contractor shall not be construed to negate, abridge, or otherwise reduce any right of indemnity or any other rights to which the County of Solano would otherwise be entitled.
- f. The Contractor shall cause all subcontracts to include the indemnification and hold harmless requirements set forth in this Article, in a form satisfactory to the County of Solano.

### 7.3 No Personal Liability.

No officer, elective and appointive Board member, employee, or consultant of the County of Solano will be personally responsible for liabilities arising under this Design Build Agreement.

### 7.4 Performance Bond and Payment Bonds.

- 7.4.1 The Contractor shall furnish to the County of Solano, prior to the awarding of any contract, a surety bond in favor of the County of Solano in the amount of not less than one hundred (100%) of the Contract Amount, to guarantee faithful performance of Contract and a payment bond, each in the form attached to the

Bid Agreement. Bond shall guarantee repair or replacement of deficient, defective or faulty materials and workmanship for a period of one year following completion of the project unless otherwise required in the Contract Documents. The Bond shall be issued by a California admitted surety with a rating classification of "A XIII" or better according to Best's Rating Service.

7.4.2 The County of Solano acknowledges that any faithful performance and payments bonds provided by the Contractor shall not apply to errors or omissions in the furnishing of professional services in connection with architecture or engineering services provided by the Contractor or its consultants. The County of Solano waives and releases all claims against such sureties arising out of or relating to such professional errors and omissions; such release, however, does not apply to a failure to provide professional services where required under the Contract, and the performance bonds shall include the costs of such services. Professional Liability insurance shall be primary insurance in settling claims related to Errors and Omissions.

**ARTICLE 8  
MISCELLANEOUS PROVISIONS**

8.1 Notices shall be addressed as follow:

OWNER:

CONTRACTOR:

**8.2 Prevailing Wages.** The Contractor agrees that State Prevailing Wages apply to this Project and that the Contractor will pay the rates for each trade or craft and shall require the subcontractors on the project to pay the rates for each trade and craft. The Contractor agrees to repay the County any and all amounts paid to any subcontractor in violation of Public Contract Code Section 6109

**ARTICLE 9  
EXECUTION OF AGREEMENT**

The parties have executed this Agreement as of the day and year first above written.

County:

Contractor:

By: \_\_\_\_\_

By: \_\_\_\_\_

APPROVED AS TO FORM:  
County Counsel of Solano County, California

By: \_\_\_\_\_

# **HANGAR A ROOF REHABILITATION PROJECT**

## **PROJECT SPECIFICATIONS IFB: 91066-0628-17**



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**SECTION 00 01 10**

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**GENERAL REQUIREMENTS SUBGROUP**

**DIVISION 01 - GENERAL REQUIREMENTS**

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01 25 00	Substitution Procedures
01 33 00	Submittal Procedures

**FACILITY CONSTRUCTION SUBGROUP**

**DIVISION 02 – EXISTING CONDITIONS**

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02 41 19	Selective Demolition

**DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

Section	
07 53 50	Elastomeric Roof Coating
07 62 00	Sheet Metal Flashing and Trim

**END OF SECTION**



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**SECTION 01 25 00**

**SUBSTITUTION PROCEDURES**

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**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Requirements:
  - 1. Invitation for Bid Documents

1.3 ACTION SUBMITTALS

- A. Substitution Requests: Submit one electronic copy in PDF format of each request for consideration; except submit three copies of samples. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
  - 1. Substitution Request Form: As submitted by Contractor and approved by Owner and Architect.
  - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
    - a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
    - b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
    - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
    - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
    - e. Samples, where applicable or requested.



**IFB No.: 91066-0628-17 – Hangar A Roof Rehabilitation  
300 County Airport Rd., Nut Tree Airport, Vacaville, CA 95688**

- f. Certificates and qualification data, where applicable or requested.
  - g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
  - h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
  - i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
  - j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
  - k. Cost information, including a proposal of change, if any, in the Contract Sum.
  - l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
  - m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within five working days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 10 working days of receipt of request, or five working days of receipt of additional information or documentation, whichever is later.
- a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
  - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.
- 1.4 QUALITY ASSURANCE
- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.
- 1.5 PROCEDURES
- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.



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1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
  2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.
- B. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

## **PART 2 - PRODUCTS**

### **2.1 SUBSTITUTIONS**

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 working days prior to time required for preparation and review of related submittals.
1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
    - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
    - b. Substitution request is fully documented and properly submitted.
    - c. Requested substitution will not adversely affect Contractor's construction schedule.
    - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
    - e. Requested substitution is compatible with other portions of the Work.
    - f. Requested substitution has been coordinated with other portions of the Work.
    - g. Requested substitution provides specified warranty.
    - h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Architect will consider requests for substitution.
1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
    - a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional



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responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.

- b. Requested substitution does not require extensive revisions to the Contract Documents.
- c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
- d. Substitution request is fully documented and properly submitted.
- e. Requested substitution will not adversely affect Contractor's construction schedule.
- f. Requested substitution has received necessary approvals of authorities having jurisdiction.
- g. Requested substitution is compatible with other portions of the Work.
- h. Requested substitution has been coordinated with other portions of the Work.
- i. Requested substitution provides specified warranty.
- j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

**PART 3 - EXECUTION (Not Used)**

**END OF SECTION**



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**SECTION 01 33 00**

**SUBMITTAL PROCEDURES**

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**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.
- B. Invitation for Bid Documents

1.2 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.4 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.
  - 1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
  - 2. Initial Submittal: Submit concurrently with startup construction schedule. Include submittals required during the first 40 working days of construction. List those submittals required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.



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3. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
  - a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
4. Format: Arrange the following information in a tabular format:
  - a. Scheduled date for first submittal.
  - b. Specification Section number and title.
  - c. Submittal category: Action; informational.
  - d. Name of subcontractor.
  - e. Description of the Work covered.
  - f. Scheduled date for Architect's final release or approval.
  - g. Scheduled date of fabrication.
  - h. Scheduled dates for purchasing.
  - i. Scheduled dates for installation.
  - j. Activity or event number.

#### 1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
  1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
  2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
  3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
  4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
    - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- B. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
  1. Initial Review: Allow 10 working days for initial review of each submittal. Allow 15 working days for complex submittals. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
  2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.



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3. Resubmittal Review: Allow 10 working days for review of each resubmittal. Allow 15 working days for complex submittals.
  4. Concurrent Consultant Review: Where the Contract Documents indicate that submittals may be transmitted simultaneously to Architect and to Architect's consultants, allow 10 working days for review of each submittal. Allow 15 working days for complex submittals. Submittal will be returned to Architect before being returned to Contractor.
- C. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
  2. Name file with submittal number or other unique identifier, including revision identifier.
    - a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-06 10 00-01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-06 10 00-01.A).
  3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
  4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner, containing the following information:
    - a. Project name.
    - b. Date.
    - c. Name and address of Architect.
    - d. Name of Construction Manager.
    - e. Name of Contractor.
    - f. Name of firm or entity that prepared submittal.
    - g. Names of subcontractor, manufacturer, and supplier.
    - h. Category and type of submittal.
    - i. Submittal purpose and description.
    - j. Specification Section number and title.
    - k. Specification paragraph number or drawing designation and generic name for each of multiple items.
    - l. Drawing number and detail references, as appropriate.
    - m. Location(s) where product is to be installed, as appropriate.
    - n. Related physical samples submitted directly.
    - o. Indication of full or partial submittal.
    - p. Transmittal number, numbered consecutively.
    - q. Submittal and transmittal distribution record.
    - r. Other necessary identification.
    - s. Remarks.
  5. Metadata: Include the following information as keywords in the electronic submittal file metadata:



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- a. Project name.
  - b. Number and title of appropriate Specification Section.
  - c. Manufacturer name.
  - d. Product name.
- D. Options: Identify options requiring selection by Architect.
- E. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- F. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
1. Note date and content of previous submittal.
  2. Note date and content of revision in label or title block and clearly indicate extent of revision.
  3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- G. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- H. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

## **PART 2 - PRODUCTS**

### **2.1 SUBMITTAL PROCEDURES**

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
1. Post all submittals as PDF electronic files directly to Project Web site specifically established for Project.
    - a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
  2. Informational Submittals: Submit two paper copies of each submittal unless otherwise indicated. Architect will not return copies.
  3. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and



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certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.

- a. Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
  - b. Provide a notarized statement on original paper copy certificates and certifications where indicated.
- B. **Product Data:** Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
  2. Mark each copy of each submittal to show which products and options are applicable.
  3. Include the following information, as applicable:
    - a. Manufacturer's catalog cuts.
    - b. Manufacturer's product specifications.
    - c. Standard color charts.
    - d. Statement of compliance with specified referenced standards.
    - e. Testing by recognized testing agency.
    - f. Application of testing agency labels and seals.
    - g. Notation of coordination requirements.
    - h. Availability and delivery time information.
  4. For equipment, include the following in addition to the above, as applicable:
    - a. Wiring diagrams showing factory-installed wiring.
    - b. Printed performance curves.
    - c. Operational range diagrams.
    - d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
  5. Submit Product Data before or concurrent with Samples.
  6. Submit Product Data in the following format:
    - a. PDF electronic file.
    - b. Three paper copies of Product Data unless otherwise indicated. Architect will return two copies.
- C. **Shop Drawings:** Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect's digital data drawing files is otherwise permitted.
1. **Preparation:** Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:



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- a. Identification of products.
  - b. Schedules.
  - c. Compliance with specified standards.
  - d. Notation of coordination requirements.
  - e. Notation of dimensions established by field measurement.
  - f. Relationship and attachment to adjoining construction clearly indicated.
  - g. Seal and signature of professional engineer if specified.
2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 30 by 42 inches.
  3. Submit Shop Drawings in the following format:
    - a. PDF electronic file.
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
  2. Identification: Attach label on unexposed side of Samples that includes the following:
    - a. Generic description of Sample.
    - b. Product name and name of manufacturer.
    - c. Sample source.
    - d. Number and title of applicable Specification Section.
    - e. Specification paragraph number and generic name of each item.
  3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
  4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
    - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
    - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
  5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
    - a. Number of Samples: Submit two full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected



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from manufacturer's product line. Architect will return one set with options selected and keep second set as record.

6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
  - a. Number of Samples: Submit three sets of Samples. Architect will retain one Sample set; remainder will be returned.
    - 1) Submit a single composite sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
    - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
- E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
  1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
  2. Manufacturer and product name, and model number if applicable.
  3. Number and name of room or space.
  4. Location within room or space.
  5. Submit product schedule in the following format:
    - a. PDF electronic file.
- F. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- G. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- H. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.



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- I. **Manufacturer Certificates:** Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- J. **Product Certificates:** Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- K. **Material Certificates:** Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- L. **Material Test Reports:** Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- M. **Product Test Reports:** Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- N. **Research Reports:** Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
  - 1. Name of evaluation organization.
  - 2. Date of evaluation.
  - 3. Time period when report is in effect.
  - 4. Product and manufacturers' names.
  - 5. Description of product.
  - 6. Test procedures and results.
  - 7. Limitations of use.
- O. **Preconstruction Test Reports:** Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- P. **Compatibility Test Reports:** Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
- Q. **Field Test Reports:** Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
- R. **Design Data:** Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.



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**2.2 DELEGATED-DESIGN SERVICES**

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated. Obtain regulatory approvals, including permits and inspections, at no additional cost to the Owner.
1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional. Design Professional shall be a Professional Engineer licensed in the State of California.
1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.
  2. Provide all permit submittals that may be required to obtain approvals from Authorities Having Jurisdiction (AHJ).
    - a. Design Build Systems include design and engineering of the assembly during the construction process and the fabrication and installation of the assembly. These systems include the following:
      - 1) Cold Formed Metal Framing, Section 054000

**PART 3 - EXECUTION**

**3.1 CONTRACTOR'S REVIEW**

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

**3.2 ARCHITECT'S ACTION**



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- A. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may be returned by the Architect without action.

**END OF SECTION**



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**SECTION 02 41 49**

**SELECTIVE DEMOLITION**

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**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
  - 1. Demolition and removal of selected portions of building or structure.
- B. Related Requirements:
  - 1. Invitation for Bid Documents

1.3 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.4 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for dust control. Indicate proposed locations and construction of barriers.
- B. Schedule of Selective Demolition Activities: Indicate the following:
  - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
  - 2. Interruption of utility services. Indicate how long utility services will be interrupted.
  - 3. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- C. Predemolition Photographs: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by demolition operations.



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**1.5 FIELD CONDITIONS**

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
  - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- E. Storage or sale of removed items or materials on-site is not permitted.

**1.6 COORDINATION**

- A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

**PART 2 - PRODUCTS**

**2.1 PERFORMANCE REQUIREMENTS**

- A. Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

**PART 3 - EXECUTION**

**3.1 EXAMINATION**

- A. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or video.

**3.2 PROTECTION**

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people, damage to interior of the building, and property within building.



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1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
4. Sensitive equipment and materials will remain inside the building. Contractor shall coordinate with owner to determine protection of equipment and materials.
5. Ceiling protection in hangar shall be provided per contract documents.

B. Remove temporary barricades and protections where hazards no longer exist.

### 3.3 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
5. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

### 3.4 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. Burning: Do not burn demolished materials.



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**3.5 CLEANING**

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

**END OF SECTION**



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**SECTION 07 53 50**

**ELASTOMERIC ROOF COATING**

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**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and application of elastomeric roof coating to existing metal roof.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Verification: For each type of elastomeric coating indicated and in each color and gloss.
  - 1. Submit Samples on same type of substrate as that to receive application, 8 inches square.
  - 2. Step coats on Samples to show each separate coat, including fabric reinforcement.
  - 3. Label each coat of each Sample.

1.4 INFORMATIONAL SUBMITTALS

- A. Installer's Qualifications.
  - 1. Contractor to be a "Manufacturer Approved applicator".
  - 2. Submit letter and/or documentation from manufacturer demonstrating Contractor/installer is an approved applicator.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that are from same production run (batch mix) as materials applied and that are packaged for storage in unopened, factory-sealed containers and identified with labels describing contents.



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1. Quantity: Furnish an additional 5 percent but not less than 1 gal. of each material, color, and texture applied.

**1.6 QUALITY ASSURANCE**

- A. Qualified Installer: Installer shall be certified by the material manufacturer as an entity that has been trained to properly install the Work.
- B. Entire Elastomer Roof Coating system shall be supplied by a single manufacturer.
- C. Mockups: Prepare [**one**] mockup of each coating system indicated and each color and finish selected to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  1. Architect will select wall surfaces of at least [**16 sq. ft.**] to represent surfaces and conditions for application of each type and texture of elastomeric coating.
  2. Final approval of color and texture selections will be based on mockups.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
  1. Maintain containers in clean condition, free of foreign materials and residue.
  2. Remove rags and waste from storage areas daily.

**1.8 PROJECT CONDITIONS**

- A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 50 and 90 deg F unless otherwise permitted by manufacturer's written instructions.
- B. Do not apply coatings in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- C. Allow wet surfaces to dry thoroughly and attain temperature and conditions specified before starting or continuing coating operation.

**1.9 WARRANTY**

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace elastomeric coatings that fail within specified warranty period.
  1. Failures include, but are not limited to, the following:



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- a. Water penetration through the coating.
  - b. Deterioration of coating beyond normal weathering.
2. Warranty Period: **12** years from date of Substantial Completion.
  3. Warranty type: restoration

**PART 2 - PRODUCTS**

**2.1 MATERIALS, GENERAL**

- A. Basis of Design, Elastomeric Roof Coating: Tremco “Solargard Hy-Build”, or equal. System is a water-based, acrylic, elastomeric roof coating formulated to provide a breathable film for the protection of metal substrates.
1. Performance Requirements:
    - a. Elongation @ 77 deg. F: 150% ± 25%, per ASTM D 2370.
    - b. Flexibility @ 0 deg. F: Passes 1/8 inch mandrel, per ASTM C 1737.
    - c. Tensile Strength @ 77 deg. F: 450 ± 50 psi, per ASTM D 2370.
    - d. Shore A Hardness: 70 ± 10, per ASTM D 2240.
  - B. Alternate products:
    1. Tremco “Solargard 6083”
    2. GAF/United – ROOF MATE “Top Coat bright white” over “Base Coat”  
11800 Industry Avenue  
Fontana, CA 92337  
1-951-360-4200
    3. Metalcrylics “Extreme Performance Acrylic WHITE” over “Clear base”  
365 Obata Way.  
Gilroy, CA 95020  
(800) 660-6950

**2.2 ACCESSORIES**

- A. Seam Sealer: Tremco “Solargard Seam Sealer”, or equal. White, single-component, high solids urethane sealer for waterproofing metal seams, sealing fastener heads, penetrations, and similar items.

Note: Provide manufacturer-recommended seam sealer when alternate products used.

- B. Acrylic Sealer: Tremco “Solargard Acrylic Sealer”, or equal. High solids, acrylic elastomeric sealer, designed to waterproof seams, fasteners, and penetrations. Prime rusted areas prior to applying acrylic sealer.

Note: Provide manufacturer-recommended sealer when alternate products used.



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- C. Metal Primer: Tremco “Republic Metal Primer”, or equal. Water-based acrylic metal primer for treating rusted areas on metal.

Note: Provide manufacturer-recommended metal primer when alternate products used.

- D. Fabric: Tremco “Permafab”, or equal. 100% stitchbonded polyester fabric used as reinforcement in flashings and faulty seam repairs.

Note: Provide manufacturer-recommended reinforcement when alternate products used.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine substrates and conditions, with Applicator present, for conditions affecting performance of work. Do not begin application until all conditions present satisfy needs of manufacturer’s warranty.

#### **3.2 ROOF PANELS PREPARATION**

A. Roof Panels:

1. For renovation projects, consult the "MPI Maintenance Repainting Manual" and revise option in first paragraph below and coating systems specified in the Coating Schedule.
2. Remove loose rust, mill scale and paint by hand tool cleaning, power tool cleaning, or water blasting at not less than 2,000 psi.
3. Roof surfaces with heavy soot, chemical contaminants, oil or wax deposits shall be cleaned with a surface cleaner and rinsed thoroughly.
4. Severe chalking shall be removed by high pressure water wash, to ensure adhesion.
5. Remove all loose existing acrylic and asphalt coatings, sealants and mastics prior to installing seam sealer or acrylic sealer. Note: If using acrylic sealer for detail work, rust areas shall be primed prior to the application of the acrylic sealer.
6. Check roof panels for adhesion and compatibility of remaining, tightly adhered, existing coating. Conduct adhesion test per ASTM D 3359 (only need 1 adhesion test for entire roof?).

- B. Priming: Prime rusted areas using metal primer at a rate of 100-200 sq. ft./gallon.



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- C. Roof Penetrations: Seal the base of roof penetrations and curbs with seam sealer at a rate of 30 – 40 lineal ft./gallon in a three course combination sealer/fabric/sealer.
- D. Seams:
  - 1. End-lap (horizontal) and faulty side-lap (vertical) seams shall be treated with seam sealer.
  - 2. Seams with openings greater than 1/8 in. shall be reinforced with seam sealer/fabric/sealer. Coverage is 30 - 40 lineal ft./gallon.
  - 3. Draw together seams with greater than ¼ in. openings with a self-tapping sheet metal screw and neoprene washer.
  - 4. Apply sealer at vertical seams at a rate of 1 gallon/100 s.f.
- E. Ridge Caps:
  - 1. All seams on and around ridge caps shall be sealed with seam sealer/fabric/sealer. Coverage is 30 – 40 lineal ft./gallon.
  - 2. All seams around ridge ventilators shall be sealed using seam sealer/fabric/sealer. Coverage is is 30 – 40 lineal ft./gallon.
- F. Fasteners:
  - 1. Encapsulate fasteners with seam sealer.
  - 2. Replace stripped or missing fasteners, using oversized repair-type fasteners.

### 3.3 APPLICATION OF COATING OVER ENTIRE ROOF

- A. Apply in weather conditions recommended by manufacturer.
- B. Primer: Apply metal primer using spray equipment and allow to dry.
- C. Roof Coating: Apply in one coat at 2 gallons/100 s.f., or as recommended by manufacturer.

### 3.4 FIELD QUALITY CONTROL

- A. Field Testing and Inspection: Owner reserves the right to engage the services of a qualified testing agency to verify installed thickness of elastomeric coatings.

### 3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.



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- C. Protect work of other trades against damage from coating application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities, touch up and restore damaged or defaced coated surfaces.

**END OF SECTION**



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**SECTION 07 62 00**

**SHEET METAL FLASHING AND TRIM**

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**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
  - 1. Sheet Metal Flashing and Trim.
- B. Related Requirements:
  - 1. Section 075350 "Elastomeric Roof Coating."

1.3 COORDINATION

- A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.
- B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each manufactured product and accessory.
- B. Shop Drawings: For sheet metal flashing and trim.
  - 1. Include plans, elevations, sections, and attachment details.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For fabricator.

1.6 CLOSEOUT SUBMITTALS



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- A. Maintenance Data: For sheet metal flashing and trim, and its accessories, to include in maintenance manuals.

**1.7 QUALITY ASSURANCE**

- A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of a minimum of 5 years of successful in-service performance.
- B. Installer Qualifications: Engage an experienced Installer who has completed sheet metal flashing and trim work similar in material, design, and extent to that indicated for this Project and with a minimum 5 year fabrication and installation record of successful in-service performance.

**1.8 DELIVERY, STORAGE, AND HANDLING**

- A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
- B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

**1.9 PROJECT CONDITIONS**

- A. Coordinate Work of this Section with interfacing and adjoining Work for proper sequencing of each installation. Ensure best possible weather resistance, durability of Work, and protection of materials and finishes.

**PART 2 - PRODUCTS**

**2.1 PERFORMANCE REQUIREMENTS**

- A. General: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight. Refer to Drawings for Sheet Metal Flashing and Trim items and locations.
- B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.



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- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

## 2.2 SHEET METALS

- A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.
- B. Metallic-Coated Steel Sheet: Provide at concealed conditions. Provide zinc-coated (galvanized) steel sheet according to ASTM A 653/A 653M, G90 coating designation; prepainted by coil-coating process to comply with ASTM A 755/A 755M. Provide 20 gauge unless otherwise noted.
1. Surface: Smooth, flat.

## 2.3 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.
- B. Fasteners: Self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
    - a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.
    - b. Blind Fasteners: High-strength aluminum or stainless-steel rivets suitable for metal being fastened.
- C. Solder:
1. For Zinc-Coated (Galvanized) Steel: ASTM B 32, Grade Sn50, 50 percent tin and 50 percent lead or Grade Sn60, 60 percent tin and 40 percent lead.
- D. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
- E. Elastomeric Sealant: ASTM C 920, elastomeric silicone polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.



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- F. Epoxy Seam Sealer: Two-part, noncorrosive, aluminum seam-cementing compound, recommended by aluminum manufacturer for exterior nonmoving joints, including riveted joints.
- G. Bituminous Coating: Cold-applied asphalt emulsion according to ASTM D 1187.
- H. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.
- I. Slip Sheet: Red Rosin Paper, by W.R. Meadows, or equal.

## 2.4 FABRICATION, GENERAL

- A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
  - 1. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
  - 2. Obtain field measurements for accurate fit before shop fabrication.
  - 3. Form sheet metal flashing and trim to fit substrates without excessive oil canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
  - 4. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.
- B. Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.
- C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
  - 1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with butyl sealant concealed within joints.
  - 2. Use lapped expansion joints only where indicated on Drawings.
- D. Seams: Fabricate nonmoving seams with flat-lock seams. Tin edges to be seamed, form seams, and solder.
- E. Do not use graphite pencils to mark metal surfaces.

## **PART 3 - EXECUTION**

### 3.1 EXAMINATION



**IFB No.: 91066-0628-17 – Hangar A Roof Rehabilitation  
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- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.
  - 1. Verify compliance with requirements for installation tolerances of substrates.
  - 2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION, GENERAL

- A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
  - 1. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
- B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
- C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at maximum of 10 feet with no movement joints within 24 inches of corner or intersection.
  - 1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.
  - 2. Use lapped expansion joints only where indicated on Drawings.
- D. Fasteners: Use fastener sizes that penetrate substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.
- E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.
- F. Seal joints as required for watertight construction.
- G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets with solder to width of 1-1/2 inches; however, reduce pre-tinning where pre-tinned surface would show in completed Work.

### 3.3 ERECTION TOLERANCES



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- A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance of 1/4 inch in 20 feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

**3.4 CLEANING AND PROTECTION**

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean and neutralize flux materials. Clean off excess solder.
- C. Clean off excess sealants.
- D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

**END OF SECTION**

# HANGAR A - ROOF REHABILITATION PROJECT

300 AIRPORT COUNTY ROAD  
VACAVILLE, CA 95688

brick.

ARCHITECT  
brick  
1266 66th st. suite 1  
emeryville, ca 94608  
510.516.0167  
www.brick-inc.com

## ABBREVIATIONS

CL	CENTERLINE	FLUOR.	FLUORESCENT	PEN.	PENETRATION(S)
∠	ANGLE	F.O.C.	FACE OF CONCRETE	PL.	PLATE
		F.O.F.	FACE OF FINISH	P.LAM.	PLASTIC LAMINATE
		F.O.S.	FACE OF STUDS	P.LYWD.	PLYWOOD
ACOUS.	ACOUSTICAL	F.S.S.	FOLDING SHOWER SEAT	PR.	PAIR
ADJ.	ADJUSTABLE	FT.	FOOT OR FEET	PTD	PAPER TOWEL DISPENSER
AGG.	AGGREGATE	FTG.	FOOTING	P.A.D.	POWER ACTUATED DEVICE
AL.	ALUMINUM	FURR.	FURRING	P.I.P.	POURED-IN-PLACE
APPROX.	APPROXIMATE	F.H.S.	FLAT HEAD SCREW	P.T.	PRESSURE TREATED
ARCH.	ARCHITECTURAL	F.R.	FIRE RETARDANT	PV	PHOTOVOLTAIC
A.P.L.	ASSUMED PROPERTY LINE	GA.	GAGE	Q.T.	QUARRY TILE
A.F.F.	ABOVE FINISH FLOOR	GALV.	GALVANIZED	R.	RISER
ADDL.	ADDITIONAL	GL.	GLASS	RAD.	RADIUS
		GND.	GROUND	R.D.	ROOF DRAIN
BD.	BOARD	GYP.	GYPSPUM	REF.	REFERENCE
BITUM.	BITUMINOUS	G.W.B.	GYPSPUM WALL BOARD	REFR.	REFRIGERATOR
BLDG.	BUILDING	GEN.	GENERAL	REINF.	REINFORCED
BLKG.	BLOCKING	H.B.	HOSE BIBB	REQD.	REQUIRED
BM.	BEAM	H.C.	HOLLOW CORE	RESIL.	RESILIENT
BOT.	BOTTOM	H.M.	HOLLOW METAL	R.H.	ROBE HOOK
		HORIZ.	HORIZONTAL	RM.	ROOM
		HR.	HOUR	R.O.	ROUGH OPENING
CAB.	CABINET	I.D.	INSIDE DIAMETER	RT	RESILIENT TILE
C.B.	CATCH BASIN	INSUL.	INSULATION	RWD.	REDWOOD
C.T.	CERAMIC TILE	INT.	INTERIOR	R.W.L.	RAIN WATER LEADER
C.C.T.	CUBICLE CURTAIN TRACK	IVT.	INTRAVENOUS TRACK	S.C.	SOLID CORE
C.I.	CAST IRON	JAN.	JANITOR	SCD	SEAT COVER DISPENSER
CLG.	CEILING	J.T.	JOINT	SCHED.	SCHEDULE
CLR.	CLEAR	KIT.	KITCHEN	SD	SOAP DISPENSER
COL.	COLUMN			SECT.	SECTION
CONC.	CONCRETE	LAB.	LABORATORY	SH.	SHelf
CONT.	CONTINUOUS	LAM.	LAMINATE	SHWR.	SHOWER
CORR.	CORRIDOR	LAV.	LAVATORY	SHT.	SHEET
CTSK.	COUNTERSUNK	LT.	LIGHT	SIM.	SIMILAR
C.M.U.	CONCRETE MASONRY	MAT.	MATERIAL	S.M.S.	SHEET METAL SCREW
C.D.U.	COMBINATION DISPENSING UNIT	MAX.	MAXIMUM	SND	SANITARY NAPKIN DISPOSAL
		M.C.	MEDICINE CABINET	SNV	SANITARY NAPKIN VENDOR
		MECH.	MECHANICAL	SSD	SEE STRUCTURAL DRAWINGS
		MEMB.	MEMBRANE	STD.	STANDARD
		MET.	METAL	STL	STEEL
		MFR.	MANUFACTURER	ST. STL.	STAINLESS STEEL
		MIN.	MINIMUM	STOR.	STORAGE
		M	MIRROR (FRAMED)	STR.	STRUCTURAL
		MISC	MISCELLANEOUS	SUSP.	SUSPENDED
		M.O.	MASONRY OPENING	TCD	TOILET SEAT COVER DISPENSER
		M.TD.	MOUNTED	T.D.	TRENCH DRAIN
		MUL.	MULLION	TRD.	TREAD
		M.G.	MEDICAL GAS PANEL	T.B.	TOWEL BAR
		M.B.	MACHINE BOLT	T.O.C.	TOP OF CURB/CONCRETE
		MK	MARKER BOARD	TEL.	TELEPHONE
		MBH	MOP AND BROOM HOLDER	TER.	TERRAZZO
				T.&G.	TONGUE AND GROOVE
				TK.	TRUCK
				T.K.BD.	TACKBOARD
				T.P.	TOP OF PAVEMENT/TELEPHONE PANELBOARD
				TPD	TOILET PAPER DISPENSER
				T.V.	TELEVISION
				TYP.	TYPICAL
				T.O.W.	TOP OF WALL
				T.O.S.	TOP OF STEEL
				U.O.N.	UNLESS OTHERWISE NOTED
		(N)	NEW	VCT	VINYL COMPOSITION TILE
		N.I.C.	NOT IN CONTRACT	VDB	VISUAL DISPLAY BOARD
		NO. or #	NUMBER	VERT.	VERTICAL
		NOM.	NOMINAL	VEST.	VESTIBULE
		N.T.S.	NOT TO SCALE	W/	WITH
				W.C.	WATER CLOSET
F.A.	FIRE ALARM			WD.	WOOD
F.C.O.	FLOOR CLEAN OUT			W/O	WITHOUT
F.D.	FLOOR DRAIN			WP.	WATERPROOF
FDN.	FOUNDATION			WR.	WASTE RECEPTACLE
F.E.	FIRE EXTINGUISHER			WT.	WEIGHT
F.E.C.	FIRE EXTINGUISHER CAB.	O/	OVER		
F.H.C.	FIRE HOSE CABINET	O.A.	OVERALL		
FIN.	FINISH	O.C.	ON CENTER		
FL.	FLOOR	O.D.	OUTSIDE DIAMETER		
		OPP.	OPPOSITE		
		O.F.D.	OVERFLOW DRAIN		
		O.F.O.	OWNER FURNISHED, OWNER INSTALLED		
		O.F.I.	OWNER FURNISHED, CONTRACTOR INSTALLED		
		O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED		

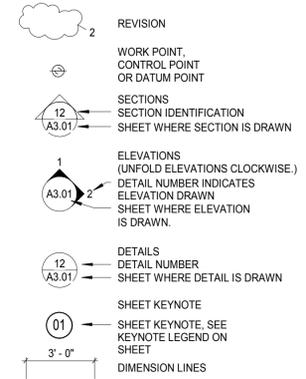


## VICINITY MAP

### GRAPHIC SYMBOLS

- GRAPHIC SYMBOLS REPRESENT OBJECTS, ELEMENTS, EQUIPMENT, INSTRUCTIONS, LOCATION, CONVENTIONS, ETC. THEY DO NOT REPRESENT THE SHAPE, SIZE, DIMENSION OF THE ACTUAL OBJECT.
- SEE INDIVIDUAL SHEETS FOR SYMBOLS RELATING TO SCOPE OF WORK ON EACH SHEET.

### GENERAL SYMBOLS



## LEGEND

BASIS OF DESIGN PRODUCT: SOLARGUARD HY-BUILD WHITE. APPLIED COATING MUST MEET REQUIREMENTS AND CERTIFICATIONS BELOW.  
 ROOFTOP COATING (CRRC # 0612-0001)  
 INITIAL SRI: 99, 3-YEAR S2  
 3-YEAR AGED SOLAR REFLECTANCE: 0.67.  
 THERMAL EMISSION: 0.86

NON-RESIDENTIAL, ROOF RECOATING, LOW SLOPE MIN REQUIREMENTS (MIN):  
 INITIAL SRI OF 64  
 3-YEAR AGED SOLAR REFLECTANCE OF 0.63  
 THERMAL EMISSION: 0.75  
 (2016 BUILDING ENERGY EFFICIENCY STANDARDS FOR NON-RESIDENTIAL BUILDINGS)

## ROOFTOP COATING REQUIREMENTS

- IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTIONS SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE PROJECT SITE BY THE CONTRACTOR AND EACH TRADE PRIOR TO COMMENCING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, AND DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE CONSTRUCTION BEGINS.
- BRICK HAS PREPARED THESE DOCUMENTS ONLY FOR THE REHABILITATION SPECIFIED, DETAILED, INDICATED OR SHOWN AS NEW WORK AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED, OR INDICATED BY "PROVIDED BY OTHERS"
- UNLESS OTHERWISE SPECIFIED, BRICK HAS NEITHER CHECKED, NOR VERIFIED THE STRUCTURAL INTEGRITY, QUALITY OF CONSTRUCTION AND ANY OTHER WORK NOT INCLUDED AS PART OF THESE DOCUMENTS.
- PERFORM DEMOLITION OF EXISTING AREAS WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE STRUCTURE AND EQUIPMENT TO REMAIN.
- ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES, LAWS, ORDINANCES, AND REGULATIONS. APPLICABLE NOTHING IN THE CONTRACT DOCUMENTS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES, LAWS, ORDINANCES AND REGULATIONS.

## GENERAL NOTES

## PROJECT DIRECTORY

ACCESSOR'S PARCEL NUMBER:	0129-21-6067
PROJECT ADDRESS:	300 COUNTY AIRPORT RD. HANGAR A VACAVILLE, CA 95688
AREA OF WORK (ROOF SURFACE):	8,585 SF (NO CHANGE FROM EXISTING ROOF AREA)
AREA OF (E) BUILDING: # OF STORIES OF (E) STRUCTURE	8,555 SF (GROUND FLOOR), 1,920 SF (SECOND FLOOR) (NO CHANGE TO AREA) 2, NON-SPRINKLERED
EXISTING OCCUPANCY	B-OFFICE, S-1-MODERATE HAZARD STORAGE

## PROJECT INFORMATION

DRAWING #	DRAWING NAME
A0.0	COVER
A1.0	EXISTING PHOTOS
A2.2A	ROOF PLAN - NORTH
A2.2B	ROOF PLAN - SOUTH
A2.3	ROOF REHABILITATION DETAILED NARRATIVE
A6.1	INTERIOR PROTECTION DIAGRAM - CEILING PLAN

## SHEET INDEX

PROJECT INCLUDES THE REHABILITATION OF THE EXISTING ROOF OF AN AIRPLANE REPAIR HANGAR. CORRUGATED METAL ROOFING PANELS WILL REMAIN IN PLACE DURING WORK, ALONG WITH A MAJORITY OF THE FASTENERS. SCOPE OF WORK INCLUDES SURFACE PREPARATION, FASTENER REPAIR/REPLACEMENT, PARTIAL FLASHING REPLACEMENT, AND RECOATING OF ROOF.  
**NO STRUCTURE WILL BE CHANGED OR MODIFIED FOR THIS SCOPE OF WORK, AND NO ROOFTOP EQUIPMENT WILL BE ADDED.**  
 NO CHANGE OF USE IS PART OF THIS SCOPE OF WORK

## SCOPE OF WORK

- APPLICABLE CODES:**
- APPLICABLE STATE CODES
  - 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATION CODE, PART 1, TITLE 24 C.C.R.
  - 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
  - 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
  - 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
  - 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
  - 2016 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (EES), PART 6, TITLE 24 C.C.R.
  - 2016 CALIFORNIA ENERGY CODE (CEC)
  - 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
  - 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
  - 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (DOES NOT APPLY)
  - THE INTERNATIONAL WILDLAND URBAN INTERFACE CODE, 2015 EDITION, TOGETHER WITH APPENDIX A, AS PUBLISHED BY THE INTERNATIONAL CODE COUNCIL.
- PARTIAL LIST OF APPLICABLE STATE STANDARDS**
- NFPA 13, AUTOMATIC SPRINKLER SYSTEMS, 1999 EDITION
  - NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED) 1999 EDITION (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
  - REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC (SFM) 3504.1
  - ASME A17.1-1993 FOR SECTION 7-3094 PART 7, C.C.R. TITLE 24
  - ASME A18.1-1999 FOR SECTION 7-3094 PART 7, C.C.R. TITLE 24
  - ANSI/BHMA A156.10-1985 AMERICAN NATIONAL STANDARD FOR POWER OPERATED PEDESTRIAN DOORS
  - ANSI A156.19-1984 AMERICAN NATIONAL STANDARD FOR POWER ASSIST AND LOW ENERGY POWER OPERATED DOORS
  - THE UNIFORM CODE FOR THE ABATEMENT OF DANGEROUS BUILDINGS, 1997 EDITION, AS PUBLISHED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS.

## APPLICABLE CODES

IFB No.: 91066-0628-17

06.28.17	issue for bid
06.12.17	issue for permit
rev	date
issue	issue



## HANGAR A ROOF REHABILITATION PROJECT

300 COUNTY AIRPORT RD.,  
HANGAR A  
VACAVILLE, CA 95688  
project number: 15-111.06

scale: as noted  
date: 6/19/2017

## ISSUE FOR BID COVER

A0.0

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file:



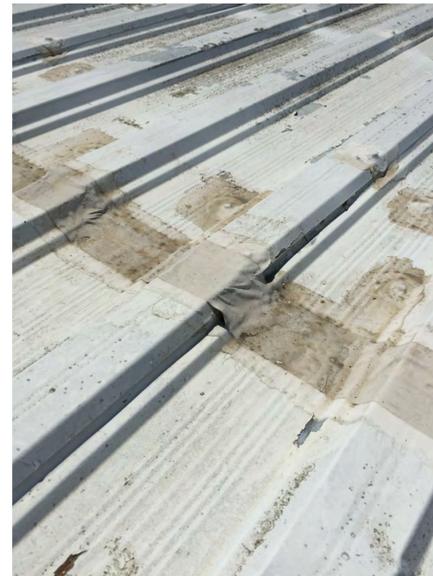
HANGAR INTERIOR - LOOKING EAST



EXISTING ROOF FLASHING AT PEAK (NORTHWEST)



EXISTING TURBINE VENTILATOR, WITH CAP AND FLASHING



EXISTING END PANEL SEAM



HANGAR INTERIOR - LOOKING SOUTH



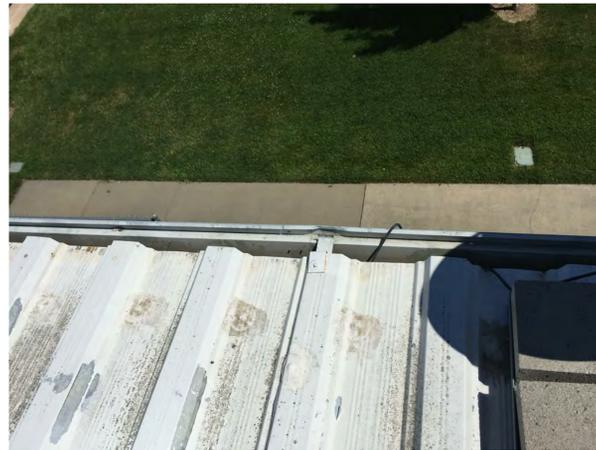
ROOF - LOOKING NORTH, INCLUDING ANTENNA AND SATELLITE



ROOF - LOOKING WEST



ROOF - LOOKING SOUTH



EXISTING ROOF GUTTER (UNCLIPPED)



EXISTING ROOF FLASHING AT PEAK (SOUTHEAST)

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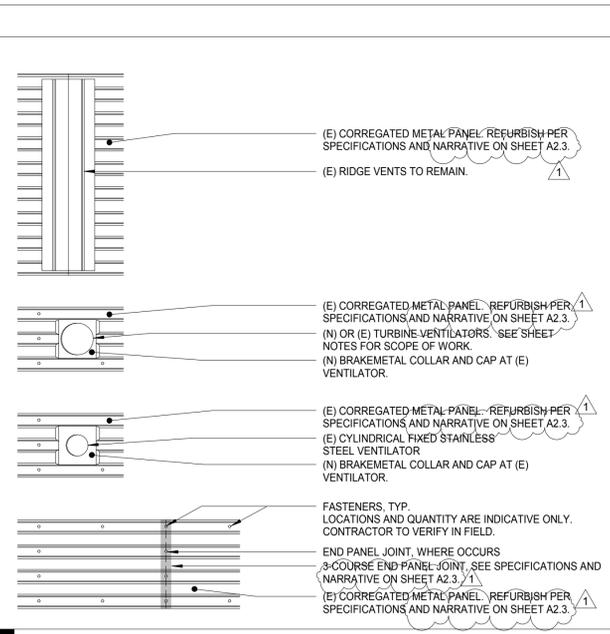
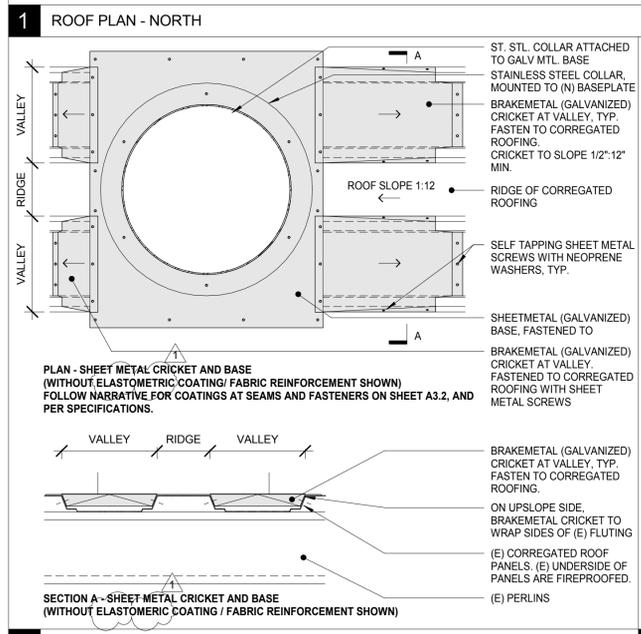
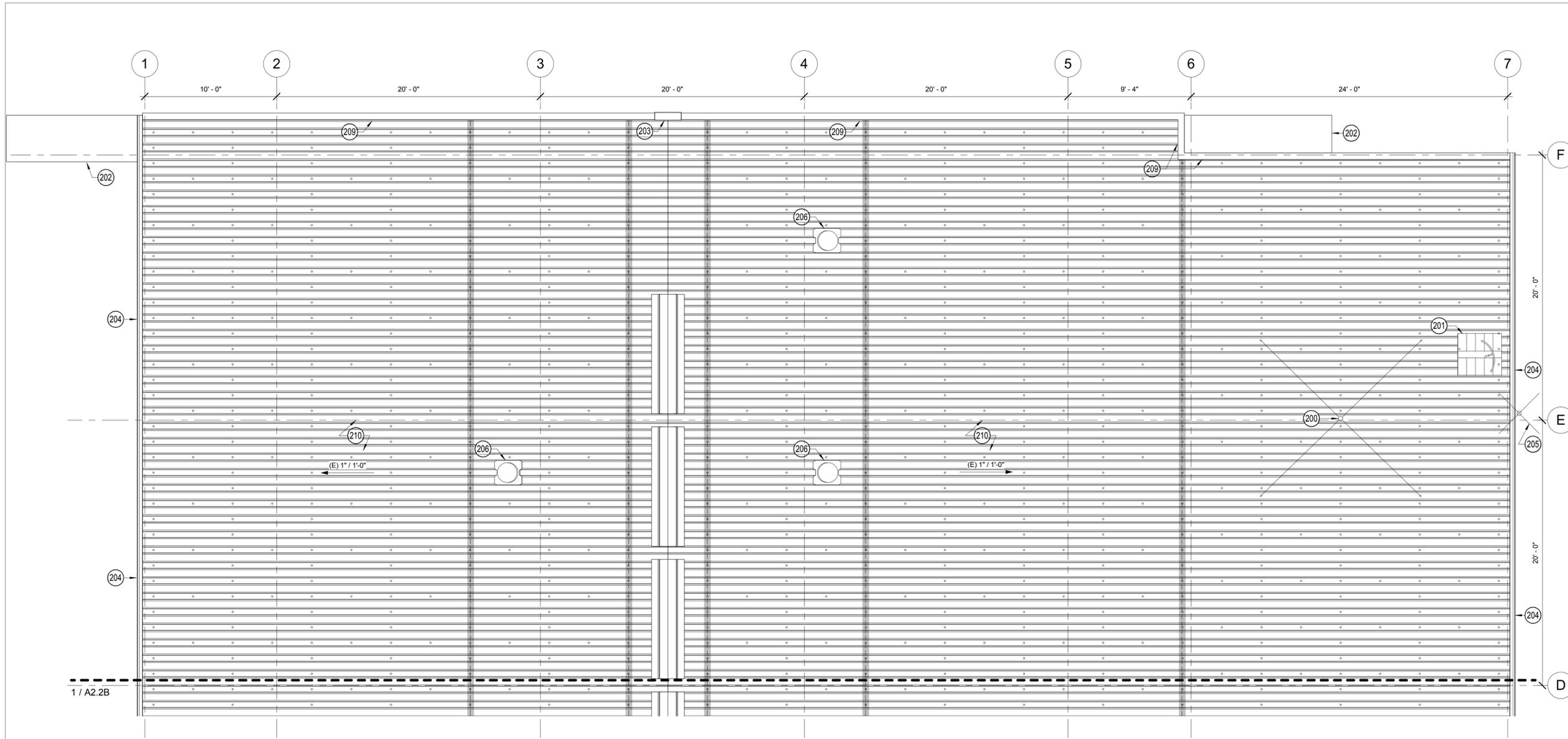
HANGAR A  
ROOF  
REHABILITATION  
PROJECT

300 COUNTY AIRPORT RD.,  
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project number: 15-111.06

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EXISTING  
PHOTOS

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**ROOF PLAN LEGEND** 1/4" = 1'-0"

1. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT & OWNER. MATERIALS DETERMINED TO BE HAZARDOUS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

2. CONDUCT A PRE-CONSTRUCTION MEETING AT THE PROJECT SITE BEFORE COMMENCING WITH WORK. INSPECT AND DISCUSS CONDITION OF EXISTING CONDITIONS AND SCOPE OF WORK. REVIEW PLAN DOCUMENTS AND REPORT UNRESOLVED ISSUES OR CONFLICTS TO THE ARCHITECT.

3. INTERIOR OF HANGAR TO BE PROTECTED BY VISQUEEN BARRIER IN CEILING OF AIRPLANE MAINTENANCE AREA. SEE SHEET A6.1

4. DO NOT CLOSE OR OBSTRUCT WALKWAYS, CORRIDORS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION. MAINTAIN FIRE-PROTECTION, LIFE SAFETY, AND BUILDING SECURITY SYSTEM IN SERVICE DURING OPERATIONS.

5. MAINTAIN (E) UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE.

6. PLANS, SPECIFICATIONS AND REHABILITATION NARRATIVE ARE MEANT TO BE USED IN CONJUNCTION WITH ONE ANOTHER. WHERE CONFLICTS EXIST, GENERAL CONTRACTOR TO ISSUE BID-RFI TO ALLOW ARCHITECT AND OWNER TO CLARIFY SCOPE.

7. GENERAL CONTRACTOR TO DETERMINE, BASED ON DRAWINGS, SPECIFICATIONS, NARRATIVE, AND SITE OBSERVATION, THE QUANTITIES AND LOCATIONS OF FASTENERS AND FLASHING TO BE REPLACED.

8. GENERAL CONTRACTOR TO PROTECT CONSTRUCTION SURROUNDING THE AREA OF WORK FROM DAMAGE RESULTING FROM THE SCOPE OF WORK OUTLINED IN THESE DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO INTERIOR SPACES, EXTERIOR WALLS, LANDSCAPING, AND INTERIOR FIREPROOFING.

9. HANGAR A WILL BE OCCUPIED DURING SCOPE OF WORK. OUTSIDE OF INSTALLATION OF AIRPLANE MAINTENANCE SPACE CEILING PROTECTION. WORK SHALL BE COMPLETED SO THAT EXISTING OCCUPANTS AND SPACES ARE NOT AFFECTED BY THE GENERAL CONTRACTORS ONSITE WORK.

**ROOF PLAN KEYNOTES** 1/4" = 1'-0"

(211) EXISTING STAINLESS STEEL ROOF VENTS. REMOVE AND RETAIN VENTILATOR FOR LATER REUSE. PROVIDE NEW BRAKE-METAL FLASHING AND CAP. PER NARRATIVE ON SHEET A2.3

(210) REPAIR AND RECOAT ROOF PANELS PER NARRATIVE ON SHEET A2.3

(209) FASTEN/ REFASTEN AND REPAIR ROOF FLASHING AT EDGE OF ROOF. PER NARRATIVE ON SHEET A2.3

(208) FASTEN/ REFASTEN AND REPAIR SEAMS AT PEAK OF ROOF. PER NARRATIVE ON SHEET A2.3

(207) PAINTED METAL TURBINE VENTILATORS. PROVIDE NEW STAINLESS STEEL TURBINE VENTILATOR TO MATCH ONES NOTED IN SHEET NOTE 206. ALSO PROVIDE NEW BRAKE-METAL FLASHING, CAP, AND ELASTOMERIC COATING PER DETAIL 2/A2.2A AND NARRATIVE ON A3.2.

(206) EXISTING STAINLESS STEEL TURBINE VENTILATORS. REMOVE AND RETAIN VENTILATOR FOR LATER REUSE. PROVIDE NEW BRAKE-METAL FLASHING, CAP, AND ELASTOMERIC COATING PER DETAIL 2/A2.2A AND NARRATIVE ON A3.2

(205) (E) WALL-MOUNTED ANTENNA. LEAVE IN PLACE AND PROVIDE PROTECTION TO ANTENNA DURING SCOPE OF WORK. CONTRACTOR TO PROVIDE PROTECTION FROM ALL WORK PROVIDED UNDER THIS CONTRACT.

(204) EXISTING GUTTER TO REMAIN. REATTACH GUTTER WHERE REQUIRED. SEE SCOPE OF WORK ON SHEET A2.3. PROVIDE 1/4" GALVANIZED MESH SCREEN TO FULL LENGTH OF GUTTER TO CATCH DEBRIS DURING CONSTRUCTION. REMOVE AFTER CONSTRUCTION COMPLETE.

(203) ROOF CAP TO BE REMOVED AND REPLACED WITH NEW BRAKE-METAL CAP. SEE SCOPE OF WORK ON SHEET A2.3.

(202) HANGAR DOOR POCKET WALLS/STRUCTURE BELOW - NO WORK TO THIS AREA.

(201) EXISTING SATELLITE DISH ON NON-PENETRATING ROOF MOUNT. REMOVE AND RETAIN DISH AND MOUNT FOR ROOF PREPARATION AND REFINISHING. REINSTALL IN SAME LOCATION AFTER ROOF WORK COMPLETE.

(200) EXISTING ANTENNA WITH CABLE GUY-WIRES. REMOVE AND RETAIN ANTENNA FOR ROOF PREPARATION. REINSTALL WITH NEW STAINLESS STEEL CABLE GUY WIRES.

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**HANGAR A ROOF REHABILITATION PROJECT**

300 COUNTY AIRPORT RD.,  
HANGAR A  
VACAVILLE, CA 95688  
project number: 15-111.06

scale: as noted  
date: 6/19/2017

**ISSUE FOR BID**  
**ROOF PLAN - NORTH**

**A2.2A**

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**HANGAR A  
ROOF  
REHABILITATION  
PROJECT**

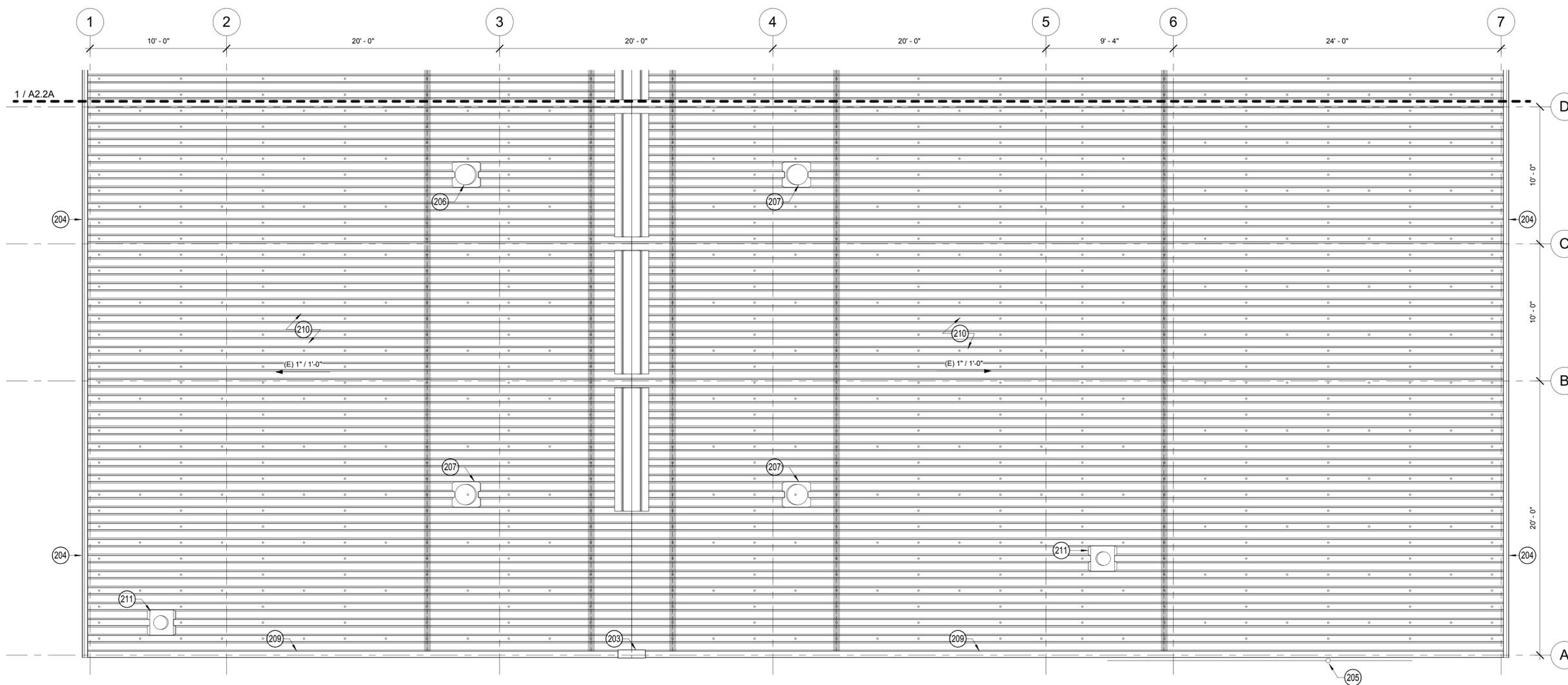
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project number: 15-11106

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**ISSUE FOR BID**

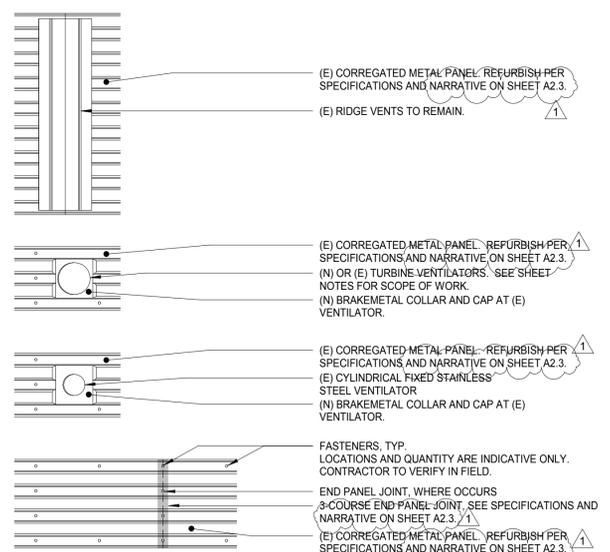
**ROOF PLAN -  
SOUTH**

**A2.2B**



**1** ROOF PLAN - SOUTH

1/4" = 1'-0"



ROOF PLAN LEGEND 1/4" = 1'-0"

- IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT & OWNER. MATERIALS DETERMINED TO BE HAZARDOUS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.
- CONDUCT A PRE-CONSTRUCTION MEETING AT THE PROJECT SITE BEFORE COMMENCING WITH WORK. INSPECT AND DISCUSS CONDITION OF EXISTING CONDITIONS AND SCOPE OF WORK. REVIEW PLAN DOCUMENTS AND REPORT UNRESOLVED ISSUES OR CONFLICTS TO THE ARCHITECT.
- INTERIOR OF HANGAR TO BE PROTECTED BY VISQUEEN BARRIER IN CEILING OF AIRPLANE MAINTENANCE AREA, SEE SHEET A6.1
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- MAINTAIN (E) UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE.
- PLANS, SPECIFICATIONS AND REHABILITATION NARRATIVE ARE MEANT TO BE USED IN CONJUNCTION WITH ONE ANOTHER. WHERE CONFLICTS EXIST, GENERAL CONTRACTOR TO ISSUE BID-RFI TO ALLOW ARCHITECT AND OWNER TO CLARIFY SCOPE.
- GENERAL CONTRACTOR TO DETERMINE, BASED ON DRAWINGS, SPECIFICATIONS, NARRATIVE, AND SITE OBSERVATION, THE QUANTITIES AND LOCATIONS OF FASTENERS AND FLASHING TO BE REPLACED.
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- HANGAR A WILL BE OCCUPIED DURING SCOPE OF WORK. OUTSIDE OF INSTALLATION OF AIRPLANE MAINTENANCE SPACE CEILING PROTECTION. WORK SHALL BE COMPLETED SO THAT EXISTING OCCUPANTS AND SPACES ARE NOT AFFECTED BY THE GENERAL CONTRACTORS ONSITE WORK.

ROOF PLAN GENERAL NOTES 1/4" = 1'-0"

- (211) EXISTING STAINLESS STEEL ROOF VENTS. REMOVE AND RETAIN VENTILATOR FOR LATER REUSE. PROVIDE NEW BRAKE-METAL FLASHING AND CAP, PER NARRATIVE ON SHEET A2.3
- (210) REPAIR AND RECOAT ROOF PANELS PER NARRATIVE ON SHEET A2.3
- (209) FASTEN/ REFASTEN AND REPAIR ROOF FLASHING AT EDGE OF ROOF, PER NARRATIVE ON SHEET A2.3
- (208) FASTEN/ REFASTEN AND REPAIR SEAMS AT PEAK OF ROOF, PER NARRATIVE ON SHEET A2.3
- (207) PAINTED METAL TURBINE VENTILATORS. PROVIDE NEW STAINLESS STEEL TURBINE VENTILATOR TO MATCH ONES NOTED IN SHEET NOTE 206. ALSO PROVIDE NEW BRAKE-METAL FLASHING, CAP, AND ELASTOMERIC COATING PER DETAIL 2/A2.2A AND NARRATIVE ON A3.2
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- (205) (E) WALL-MOUNTED ANTENNA. LEAVE IN PLACE AND PROVIDE PROTECTION TO ANTENNA DURING SCOPE OF WORK. CONTRACTOR TO PROVIDE PROTECTION FROM ALL WORK PROVIDED UNDER THIS CONTRACT.
- (204) EXISTING GUTTER TO REMAIN. REATTACH GUTTER WHERE REQUIRED. SEE SCOPE OF WORK ON SHEET A2.3. PROVIDE 1/4" GALVANIZED MESH SCREEN TO FULL LENGTH OF GUTTER TO CATCH DEBRIS DURING CONSTRUCTION. REMOVE AFTER CONSTRUCTION COMPLETE.
- (203) ROOF CAP TO BE REMOVED AND REPLACED WITH NEW BRAKE-METAL CAP. SEE SCOPE OF WORK ON SHEET A2.3.
- (202) HANGAR DOOR POCKET WALLS/STRUCTURE BELOW - NO WORK TO THIS AREA.
- (201) EXISTING SATELLITE DISH ON NON-PENETRATING ROOF MOUNT. REMOVE AND RETAIN DISH AND MOUNT FOR ROOF PREPARATION AND REFINISHING. REINSTALL IN SAME LOCATION AFTER ROOF WORK COMPLETE.
- (200) EXISTING ANTENNA WITH CABLE GUY-WIRES. REMOVE AND RETAIN ANTENNA FOR ROOF PREPARATION. REINSTALL WITH NEW STAINLESS STEEL CABLE GUY WIRES.

ROOF PLAN KEYNOTES 1/4" = 1'-0"

- c. AT RIDGELINE SEAMS,  
i. WHERE SEAMS ARE GREATER THAN 1/32", USE 3-COURSE FABRIC REINFORCED SEALER COATING SYSTEM PER SPECIFICATIONS. SEE ATTACHED PHOTO FOR EXAMPLE.



- d. ROOF EDGE CAP SEAMS  
i. FOR JOINTS LARGER THAN A CREDIT CARD THICK (1/32") PROVIDE NEW 3-COURSE FABRIC REINFORCED SEALER ALONG ENTIRE LENGTH  
ii. FOR JOINTS WHERE PANEL SEAMS ARE GREATER THAN 1/4", FASTEN EDGES OF ADJACENT PANELS WITH #10 SELF-TAPPING FASTENERS WITH INTEGRAL NEOPRENE WASHER (@ 1'-0" O.C.). COVER FASTENERS WITH 3-COURSE FABRIC REINFORCED SEALER COATING PER NOTES ABOVE. SEAL JOINT WITH SOLARGUARD SEAM SEALER ALONG ENTIRE SEAM LENGTH GREATER THAN 1/32". SEE EXAMPLE PHOTO BELOW



- vii) OTHER HOLES/PENETRATIONS:  
i. HOLES LESS THAN 1/4" TO RECEIVE 3-COURSE FABRIC REINFORCED SEALER COATING, SIMILAR TO FASTENER PREPARATION.

- IV) GUTTERS  
a. RELOCATE GUTTER LIP UNDER THE HEM  
b. CRIMP THE GUTTER TO SUPPORT, TO MATCH (E) CONDITION.  
c. FASTEN THE GUTTER TO THE SUPPORT AT THE EXISTING SUPPORT HOLE WITH SELF-TAPPING SCREW. FASTENER TO BE GALV. HEX HEAD METAL TO METAL (STEELBINDER OR EQ.) TYPE OF PROPER SIZE AND LENGTH TO SECURE GUTTER STRAPS TO GUTTER LIP UNDER THE HEM. SEE PHOTO OF (E) CONDITION BELOW.



- V) TURBINE VENTILATORS  
a. 3 EXISTING METAL TURBINE VENTILATORS SHALL BE REPLACED WITH NEW STAINLESS STEEL TURBINE VENTILATORS TO MATCH OTHER NEWLY INSTALLED VENTILATORS AND COLLARS  
SEE PHOTOS BELOW OF TURBINE VENTILATOR TO BE REPLACED (LEFT PHOTO), AND NEW TO MATCH (RIGHT PHOTO).



- b. ALL TURBINE VENTILATORS (NEW AND EXISTING), ARE TO RECEIVE NEW SHEET METAL CRICKET TO FOLLOW CORRUGATED ROOF PANELS. CRICKETS SHALL BE FORMED TO ALLOW FOR POSITIVE DRAINAGE AWAY FROM SHEET METAL COLLAR.  
i. CRICKET SHALL BE FASTENED TO CORRUGATED ROOF PANELS, AND FASTENERS TO RECEIVE 3-COURSE FABRIC REINFORCED COATING PER DESCRIPTION ABOVE.

- VI) CORRUGATED METAL PANEL SEAMS  
a. AT MIDPOINT OF SLOPE, JOINT PURPENDICTULAR TO SLOPE.  
i. WHERE EXISTING COATING IS PEELING, BUT NOT COMPLETELY LIFTED FROM ROOF, CONTRACTOR IS TO CUT LOOSE MATERIAL, AND RECOAT WITH NEW SEALER COATING.  
ii. WHERE FABRIC IS LIFTED FROM AND/OR NO LONGER ADHERING TO CORRUGATED PANEL, ENTIRE SEAM AND COATING SHALL BE REMOVED, CUTBACK AND PREPPED FOR NEW 3-COURSE FABRIC REINFORCED SEALER COATING, PER MANUFACTURER SPECIFICATIONS. SEE EXAMPLE BELOW.



- b. AT PANEL JOINT, PARALLEL TO SLOPE.  
i. AT ALL LOCATIONS WHERE SEALANT IS LOOSE, REMOVE AND CLEAN JOINT.  
ii. FOR JOINTS LARGER THAN A CREDIT CARD THICK (1/32") PROVIDE NEW SOLARGUARD SEAM SEALER ALONG ENTIRE LENGTH  
iii. FOR JOINTS WHERE PANEL SEAMS ARE GREATER THAN 1/4", FASTEN EDGES OF ADJACENT PANELS WITH #10 SELF-TAPPING FASTENERS WITH INTEGRAL NEOPRENE WASHER (@ 1'-0" O.C.). COVER FASTENERS WITH 3-STEP CAP PER NOTES ABOVE. SEAL JOINT WITH SOLARGUARD SEAM SEALER ALONG ENTIRE SEAM LENGTH GREATER THAN 1/32"

**ROOF REHABILITATION DETAILED NARRATIVE:**

- GENERAL NOTES:  
A) GENERAL CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD, DURING BID WALK AND PRIOR TO CONSTRUCTION.  
B) GENERAL CONTRACTOR TO DETERMINE, BASED ON SPECIFICATIONS, NARRATIVE, AND SITE OBSERVATION, THE QUANTITIES AND LOCATIONS OF FASTENERS AND FLASHING TO BE REPLACED.  
C) GENERAL CONTRACTOR TO DETERMINE METHOD FOR PROTECTING CORRUGATED ROOF PANELS FROM DENTING AND DAMAGE DURING ROOF REHABILITATION WORK. CORRUGATED PANELS BETWEEN PERLINS AND AT FLUTING CAN BE DAMAGED BY FOOT TRAFFIC.  
D) ELASTOMERIC COATING/ SEALER PREPARATION AND APPLICATION IS BASED ON BASIS OF THE BASIS OF DESIGN PRODUCT NOTED ON SHEET A0.0, ROOF COATING REQUIREMENTS. THIS INCLUDES ALL ACCESSORY PRODUCTS. ELASTOMERIC COATING APPLICATION, WHETHER ROLLER OR SPRAY, SHALL BE COMPLETED IN ACCORDANCE TO MANUFACTURERS INSTALLATION INSTRUCTIONS. TYPE OF APPLICATION MAY BE DETERMINED BY THE WEATHER.  
E) PROPER SITE PROTECTION, INCLUDING OF LANDSCAPING AROUND BUILDING ARE REQUIRED.  
F) DETAILED SCOPE NARRATIVE IS MEANT TO BE USED TO FURTHER DESCRIBE THE PREPARATION AND INSTALLATION METHODS OUTLINED IN THE SPECIFICATIONS. WHEN SPECIFICATIONS AND SCOPE NARRATIVE CONFLICT, DETAILED SCOPE NARRATIVE SHALL GOVERN.  
G) SEQUENCING NOTES:  
i. FASTENER REPAIR, TIGHTENING OF FASTENERS, INSTALLATION OF NEW FASTENERS, AND REPLACEMENT OF DAMAGED FASTENERS TO OCCUR PRIOR TO POWERWASHING AND SCRUBBING.  
ii. PLASTIC SHEETING CEILING BARRIER ANTENNA/SATELLITE REMOVAL TO OCCUR PRIOR TO COMMENCEMENT OF ANY WORK.

- II) ROOF PANELS:  
ROOF COATING (OVER ALL CORRUGATED PANELS, FASTENERS, CAPS AND SEAMS)  
a. POWERWASH TO PREP SURFACE, PER ROOF COATING MANUFACTURERS' INSTRUCTIONS. REMOVE ALL LOOSE PAINT, DUST AND DIRT.  
b. REMOVE EXISTING ASPHALT/ LOOSE POLYURETHANE COATING/ SEALER AND PLATES.  
c. PROVIDE MANUFACTURER RECOMMENDED PRIMER (WB RUST OR EQUAL) OVER ENTIRE ROOF SURFACE. ENSURE PRIMER IS COMPATIBLE WITH ROOF COATING PRODUCT.  
d. PROVIDE SOLARGARD HY-BUILD WHITE 2 GL/SQ FOR METAL OR EQUAL. ENSURE ALL MANUFACTURERS INSTALLATION/ PREPARATION INSTRUCTIONS ARE FOLLOWED.  
e. PROVIDE SEALER AND/OR 3-COURSE TREATMENT AS OUTLINED IN THE SPECS AND NARRATIVE.  
III) FASTENERS:  
a. WHERE TWO PANELS ARE MOVING SEPARATELY FROM ONE ANOTHER, OR LIFTING FROM ROOF STRUCTURE, FASTENERS NEED TO BE EITHER:  
i) TIGHTENED, WHICH WILL INCLUDE THE REMOVAL OF THE EXISTING COATING AND REINFORCING CLOTH, OR  
ii) REPLACED, GALV. HEX HEAD METAL TO METAL (STEELBINDER) TYPE WITH NEO. WASHER OF PROPER LENGTH & SIZE TO CORRECTLY FASTEN ROOF PANEL TO PURLIN(S).  
iii) CONTRACTOR TO FIELD VERIFY LOCATIONS.  
b. NEW 3-COURSE FABRIC-REINFORCED SEAM SEALER TO BE COMPLETED AT ALL TIGHTENED OR REPLACED FASTENERS.  
c. WHERE EXISTING COATING IS LIFTED, CONTRACTOR TO CUT OFF LOOSE EDGE AND RECOAT WITH 1-LAYER SEALER COATING. (SEE IMAGE BELOW OF LIFTED EDGE OF COATING)



- d. WHERE NO LIFTING OF PANEL OR LOOSE COATING IS EVIDENT, NO WORK REQUIRED OTHER THAN ELASTOMERIC COATING. (SEE IMAGE BELOW OF ACCEPTABLE EXISTING FASTENER)



- III) ROOF EDGE CAPS (CURRENT CAPS CRACKED): TWO LOCATIONS.  
a. REMOVE (E) PVC ROOF EDGE CAPS, INCLUDING FASTENERS  
b. NEW GALVANIZED BRAKE METAL ROOF CAPS AT EAST AND WEST ENDS SHALL BE FABRICATED AND INSTALLED WITH NEW FASTENERS AND 3-COURSE FABRIC REINFORCED SEALER COATING PER NOTES ABOVE. REATTACH IN SAME LOCATIONS AS EXISTING  
c. SEAL BETWEEN ROOF FLASHING/ CORRUGATED PANELS AND NEW ROOF CAP WITH ROOF SEALER PER MANUF. INSTRUCTIONS  
d. SEE PHOTO OF (E) CONDITIONS BELOW.



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**HANGAR A  
ROOF  
REHABILITATION  
PROJECT**

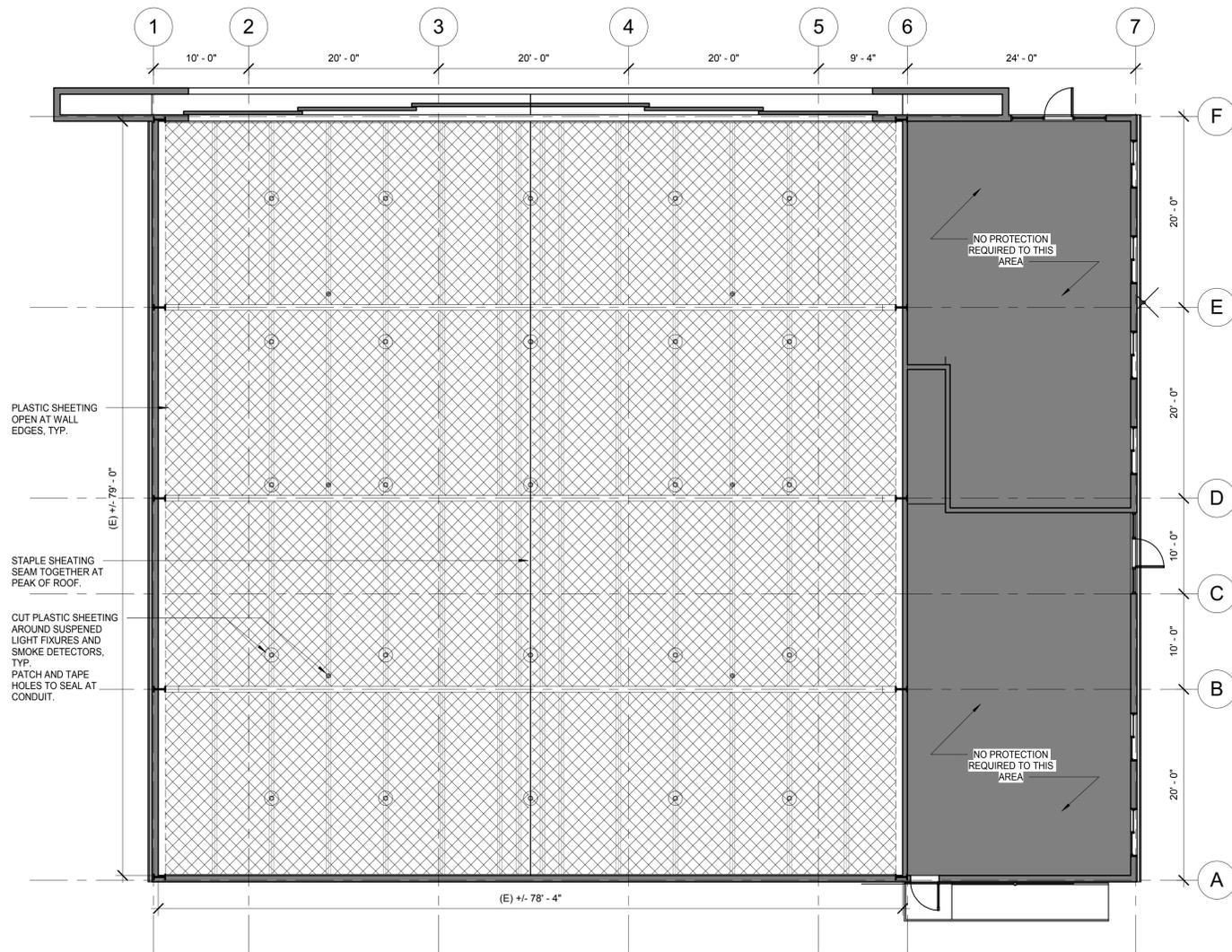
300 COUNTY AIRPORT RD.,  
HANGAR A  
VACAVILLE, CA 95688

project number: 15-111.06

scale: as noted  
date: 6/19/2017

**ISSUE FOR BID  
ROOF  
REHABILITATION  
DETAILED  
NARRATIVE**

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file:



1 CEILING PLAN - MAINTENANCE HANGAR

1/8" = 1'-0"

- (E) SMOKE DETECTOR, SUSPENDED FROM CONDUIT/ J-BOX. SYSTEM AND DETECTORS TO REMAIN IN PLACE AND OPERATIONAL DURING ROOF REHABILITATION WORK.
- ⊙ (E) CEILING MOUNTED LIGHT FIXTURE, SUSPENDED FROM CONDUIT/ J-BOX. LIGHTS TO REMAIN IN PLACE AND OPERATIONAL DURING ROOF REHABILITATION WORK.
- (E) UNDERSIDE OF (E) STEEL CORRUGATED PANELS, WITH APPLIED FIREPROOFING.
- (E) TAPERED STEEL GIRDER WITH APPLIED FIREPROOFING.
- (E) STEEL PERLIN WITH APPLIED FIREPROOFING.
- ⊠ TEMPORARY CLEAR PLASTIC SHEETING PROTECTION, 6MIL, 24" WIDE ROLLS, TYP. PLASTIC SHEETING TO BE TAPED AND FULLY SECURED TO BEAMS/WALLS. INSTALLATION SHALL NOT REQUIRE THE REMOVAL/REPAIR/REINSTALLATION OF EXISTING FIREPROOFING.

CEILING PLAN LEGEND

1/8" = 1'-0"

brick.

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IFB No.: 91066-0628-17

rev	date	issue
1	06.28.17	issue for bid
	06.12.17	issue for permit



HANGAR A  
ROOF  
REHABILITATION  
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300 COUNTY AIRPORT RD.,  
HANGAR A  
VACAVILLE, CA 95688

project number: 15-111.06

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ISSUE FOR BID  
INTERIOR  
PROTECTION  
DIAGRAM -  
CEILING PLAN

A6.1