



ADDENDUM 1

Project: REVISED Saline Middle School Solar-Integrated Roof

Bid Due date: Tuesday, December 5, 2023, at 11:00 AM Local Time (unchanged)

I. General Information

1. For questions contact Mark Paulus at lecoleplanners3@gmail.com or (248) 880-6791.
2. Attached is the pre-bid meeting sign-in sheet from November 27, 2023.
3. Any bidder requesting to visit the site, contact Mark Paulus at lecoleplanners3@gmail.com or (248) 880-6791 to schedule a time. No bidder shall visit the building with scheduling with Mark Paulus.
4. Advertisement for Bids, Revise 1st paragraph. Saline Area Schools will be receiving bids for the following bid package: Saline Middle School Solar-Integrated Roof.
5. Front End/Request for Proposal, page 1, Revise 1st paragraph. The Saline Area Schools (also referred to as the District or SAS in these documents) will accept sealed bids for: Saline Middle School Solar-Integrated Roof.
6. Front End/Request for Proposal, all pages, revise header. Saline Middle School Solar-Integrated Roof – Bid.
7. Front End/Request for Proposal, page 12, add section Additional Work Scope. Include 8 Hours of coordination for the solar rebate application and other items.
8. Front End/Request for Proposal, page 14, add under unit pricing. Install only, provided by others, solar anchor. The number of anchors anticipated to be installed ranges between 192 and 675 over the entire roof. Attached is the solar anchor information.
9. Front End/Request for Proposal, page 14, add under unit pricing. Furnish and install additional walkway pads for the solar being installed by others. Based the unit pricing on approximately 5,000 square feet for each bid category.
10. Front End/Request for Proposal, pages 13-15. This is the proposal form that is being reissued to include the revisions of this addendum.

II. Questions and Answers

- 1Q. Is the contractor responsible for obtaining the building permit from the State?
- 1A. Yes, the contractor is responsible for obtaining the building permit from the State. The cost of the actual permit is part of the general allowance of \$20,000.
- 2Q. Is this project governed by Davis Bacon wage determination?
- 2A. Yes, this project is governed by Davis Bacon wage determination, and attached is the wage determination.
- 3Q. Can you provide a drawing showing the deck construction between gypsum and metal?
- 3A. Attached to this addendum is a drawing showing this information.
- 4Q. Can you please provide the existing roof system in roof areas 8, 9, 10, and 11 that are complete removal?
- 4A. The bidder is still responsible for verifying but in support of the bidders based on the documents these areas are long-span metal deck, 1.5" thick isocyanurate insulation, ¾ wood fiberboard insulation, and asphalt BUR with gravel surface. Again, the bidder is still responsible to verify this information and include their findings in their base bid.



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- 5Q. Does the bidder have to bid on the entire project?
- 5A. There are 2 bid categories that separate the roof area basically in half. The bidders can bid on each bid category, the entire roof, just one section, or each bid category with a note saying they would like to be awarded 1 category.
- 6Q. Does this work have to be completed in the summer of 2024?
- 6A. The bid documents say the bidder can complete this work in both 2024 and 2025. We are asking the bidder to note that on the bid form. We understand this is a large project and want to give the bidders flexibility.
- 7Q. Will you accept the manufacturers of Johns Manville and Duro-Last as voluntary alternates?
- 7A. Johns Manville and Duro-Last will be accepted as voluntary alternates as long as they meet the entire specification for all items.

END

My signature certifies that the Proposal as submitted complies with all of the terms and conditions set forth in the Request for Proposal unless specifically enumerated as an exception as part of our Proposal.

COMPANY NAME: _____

ADDRESS: _____

AUTHORIZED SIGNATURE: _____

AUTHORIZED NAME (please print): _____

TITLE: _____ DATE: _____

CELL PHONE #: _____ FAX #: _____

E-MAIL: _____

The undersigned certifies that the bid contained meets or exceeds the attached specifications. Include the bond and allowances amount in price(s).

BID CATEGORY A SALINE MIDDLE SCHOOL: ROOF AREAS 1-14

Base Bid Amount: \$ _____

3,000 Square Feet Allowance: Full Removal and Replacement
including 3" ISO Insulation in Lieu of Removal of Existing
Membrane & Providing Dens Deck & Membrane: \$ _____

Allowance Amount: \$ 20,000.00

Bond Amount: \$ _____

Grand Total - \$ _____

Schedule. Project completed in 1 or 2 Summers _____

BID CATEGORY B SALINE MIDDLE SCHOOL: ROOF AREAS 15-22

Base Bid Amount: \$ _____

3,000 Square Feet Allowance: Full Removal and Replacement
including 3" ISO Insulation in Lieu of Removal of Existing
Membrane & Providing Dens Deck & Membrane: \$ _____

Allowance Amount: \$ 20,000.00

Bond Amount: \$ _____

Grand Total - \$ _____

Schedule. Project completed in 1 or 2 Summers _____

BID CATEGORIES A AND B SALINE MIDDLE SCHOOL: ALL AREAS 1-22

Deduct if Awarded Both Categories: \$ _____

Schedule. Project completed in 1 or 2 Summers _____

Unit Pricing**Unit Prices (provide unit prices below for adds/deducts)**

Replace deteriorated 1" x 6" wood nailers (L.F.) \$ _____

Replace deteriorated 1" x 8" wood nailers (L.F.) \$ _____

Replace deteriorated 2" x 4" wood nailers (L.F.) \$ _____

Replace deteriorated 2" x 6" wood nailers (L.F.) \$ _____

Replace deteriorated 2" x 8" wood nailers (L.F.) \$ _____

Replace deteriorated 2" x 10" wood nailers (L.F.) \$ _____

Replace deteriorated 2" x 12" wood nailers (L.F.) \$ _____

Replace deteriorated 3/4" CDX plywood (S.F.) \$ _____

Replace 1-inch thick flat stock isocyanurate insulation (S.F.) \$ _____

Replace 1.5-inch thick flat stock isocyanurate insulation (S.F.) \$ _____

Replace 2-inch thick flat stock isocyanurate insulation (S.F.) \$ _____

Replace 3-inch thick flat stock isocyanurate insulation (S.F.) \$ _____

Replace deteriorated drain bowls with cast iron (each) \$ _____

Installation only of solar anchors (each) \$ _____

Furnish and install additional walkway pads (S.F.) \$ _____

Bid Questions

Acknowledge receipt of Addendums: _____

Do you agree to the schedule and terms of the schedule? ☐ Yes ☐ NoBid Bond included? ☐ Yes ☐ NoFamilial Disclosure Affidavit included? ☐ Yes ☐ NoIran Linked Business Affidavit included? ☐ Yes ☐ No

Please state your warranty: _____

State any prompt payment terms: _____% _____days.

Do you conduct background checks on your employees? ☐Yes ☐No

Are you on the Excluded Parties List, which excludes you from receiving Federal Contracts or certain sub contracts, pursuant to the provisions of 31 U.S.C. 6101, note E.O. 12549, E.O. 12689, 48 C.F.R. 9.404? ☐Yes ☐No ☐Unknown

Provide your DUNS number, if you have one: _____

At least three (3) references with contact person:

Company: _____ Contact: _____ Phone: _____

Company: _____ Contact: _____ Phone: _____

Company: _____ Contact: _____ Phone: _____

Pursuant to MCL 380.1267, a sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the Saline Area Schools Board or the Saline Area Schools Superintendent must be accompanied with the bid. **Bids without this disclosure statement will not be accepted.**

The members of the Saline Area Schools Board are Jennifer Steben, Michael McVey, Kandace Jones, Brad Gerbe, Susan Estep, David Hayward, Jenney Miller, Tim Austin, and Lauren Gold.

The Saline Area Schools Superintendent is Dr. Stephen D. Laatsch

€ The Following are the familial relationships:

€ There are none.

STATE OF MICHIGAN)
) ss
COUNTY OF _____)

The undersigned, authorized representative of bidder (insert name)

does hereby acknowledge that bidder has read the foregoing disclosure statement and the

statements herein contained are true.

Signature of Bidder Representative

Print Name

Title

Subscribed and sworn to before me this _____ day of _____, _____

Notary Public, _____ County, Michigan
My commission expires: / /

AFFIDAVIT OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT
Michigan Public Act No. 517 of 2012

The undersigned, the owner or authorized officer of the below named contractor (the “Contractor”), pursuant to the compliance certification requirement provided in the Saline Area Schools (the “School District”) Request For Proposals For **Saline Middle School Roofing Project** (the “RFP”), hereby certifies, represents and warrants that the Contractor (including its officers, directors and employees) is not an “Iran linked business” within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the “Act”), and that in the event Contractor is awarded a contract as a result of the aforementioned RFP, the Contractor will not become an “Iran linked business” at any time during the course of performing the Work or any services under the contract.

The Contractor further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the School District's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date it is determined that the person has submitted the false certification.

CONTRACTOR:

Name of Contractor

By: _____

Its: _____

Date: _____

STATE OF _____)
_____)ss.

COUNTY OF _____)

This instrument was acknowledged before me on the _____ day of _____,
20____, by _____.

, Notary Public

County,

My Commission Expires:

Acting in the County of :



ANCHOR PRODUCTS™

EQUIPMENT SECUREMENT OVER WATERPROOFING AND ROOFING SYSTEMS

The specification following this cover page is provided to assist the Design Professional in creating a performance specification for the securement of equipment to a waterproofing or roofing surface.

PLEASE NOTE: In the design and installation of equipment over waterproofing and or roofing systems, all parties involved must recognize that existing structural support system was designed based on the loads being applied uniformly. Attachment solutions such as the U-Anchors, dependent upon the equipment being attached, may apply point loads (upward, downward, transverse or in all directions) to the deck or other structural elements. This design approach may not be feasible in all applications. The new equipment, as well as the effects of the new equipment, will add weight to the structure as well as possibly alter wind effects. In addition, as a result of adding the new equipment, additional weight will be imposed onto the structural requiring an engineering evaluation. Anchor Products highly recommends that an independent structural engineer conduct an investigation of the entire building structure to determine the adequacy of the structural elements to withstand these added loads. Identifying and determining these imposing loads is the responsibility of the system designer.

NOTE: This specification contains hidden text that offers helpful notes and instructions. To use this feature click the SHOW/HIDE button located on the Home menu in the Paragraph section.




Show / Hide Button

(COVER PAGE)

SECTION 07, 10, 13, 21, 22, 23, 26, 27, 48:

BALLAST FREE, NON-PENETRATING, EQUIPMENT ATTACHMENTS

For best results, display hidden notes to specifier the  button located on the Home menu in the Paragraph section.

PART 1 - GENERAL

1.1 SECTION INCLUDES

1.2 RELATED SECTIONS

A Non-ballasted, non-penetrating, rooftop attachment systems for:

- 1 Section 07 00 00 - Thermal & Moisture Protection.
- 2 Section 07 71 00 - Roof Specialties.
- 3 Section 07 72 00 - Roof Accessories.
- 4 Section 10 14 00 - Signage
- 5 Section 10 24 00 - Roof Screens
- 6 Section 13 10 00 - Lightning Protection
- 7 Section 21 00 00 - Fire Suppression.
- 8 Section 21 05 29 - Hangers & Supports for Fire Suppression Piping & Equipment
- 9 Section 21 05 48 - Vibration & Seismic Controls for Plumbing, Piping & Equipment
- 10 Section 22 00 00 - Plumbing.
- 11 Section 22 05 29 - Hangers & Supports for Plumbing, Piping & Equipment
- 12 Section 22 05 48 - Vibration & Seismic Controls Plumbing, Piping & Equipment.
- 13 Section 22 33 00 - Air Duct Accessories.
- 14 Section 23 00 00 - Heating, Ventilating & Air Conditioning (HVAC).
- 15 Section 23 05 29 - Hangers & Supports for HVAC.
- 16 Section 26 00 00 - Electrical.
- 17 Section 27 00 00 - Communications.
- 18 Section 48 14 00 - Solar Electric Power Generation Equipment

1.3 REFERENCES

- A ASTM A 123/A 123M – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- B ASTM A 153/A 153M – Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- C ASTM D 1929 – Standard Test Method for Determining Ignition Temperature of Plastics.
- D MSS SP-58 – Pipe Hangers and Supports: Materials, Design and Manufacture; Manufacturers Standardization Society of the Valve and Fittings Industry.
- E MSS SP-69 – Pipe Hangers and Supports: Selection and Application; Manufacturers Standardization Society of the Valve and Fittings Industry.

- F 2015 IBC, Chapter 16, Section 1609 – Referenced from ASCE 7-16 Chapter 29 “Wind Loads on Building Appurtenances and Other Structures – Main Wind Force Resisting System (Directional Procedure)”

1.4 SYSTEM DESCRIPTION

- A Secure rooftop equipment in all zones and regions on roof with an engineered U-Anchor Rooftop Attachment System designed for maintaining a watertight condition without damage to the roofing assembly. The anchor assembly shall consist of a flashing, weatherized steel plate, and a welded, threaded attachment meeting requirements for the specific application. The U-Anchor shall be manufactured by Anchor Products, LLC (see PART 2).
 - 1 Coordinate additional design considerations for seismic and wind zones with the Structural Engineer

1.5 SUBMITTALS

- A Submit under provisions of Section 01 30 00.
 - 1 Product Data: Submit for all products proposed for use, describing physical characteristics and method of installation.
 - 2 Shop Drawings: Show installation layout, sizes of units, and details of installation.

1.6 QUALITY ASSURANCE

- A Manufacturer Qualifications:
 - 1 Company specializing in manufacturing of rooftop attachments equipment, with a minimum of 10 years of documented experience.
- B Installer Qualifications: Company approved by roofing manufacturer.
- C Pre-Installation Meeting: After approval of submittals, but before beginning installation, conduct a meeting at the project site attended by the Architect, Contractor, Rooftop Equipment Installers, Installers of roofing, and mechanical, electrical equipment and other systems to be installed on rooftop attachments.
 - 1 Purpose of meeting is to describe in detail the installation process and to establish agreement, coordination, and responsibilities.
 - 2 Prepare detailed meeting report and distribute copies to the Architect and all attendees.

1.7 DELIVER, STORAGE, AND HANDLING

- A Deliver all materials to project site in manufacturer's original packaging, marked with manufacturer's name, product model names and catalog numbers, identification numbers, and other related information.
- B Store materials under cover until needed for installation.

1.8 WARRANTY

- A See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B Warranty: 20-year limited warranty to repair or replace, at the option of the manufacturer, any products found to be structurally defective in material or workmanship.
 - 1 Warranty is not valid if System has been modified, installed incorrectly, or not designed in accordance with manufacturer recommendations.
 - 2 Terms and Conditions: Reference Warranty

PART 2-PRODUCTS

2.1 MANUFACTURERS

- A Acceptable Manufacturer:
 - 1 Anchor Products, LLC i.e. U-Anchor Rooftop Attachments;
 - a P.O. Box 1551, Colleyville, TX 76034.
 - b Tel: (888) 575-2131
 - c www.AnchorP.com
 - d Email: info@anchorp.com
- B Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 ROOFTOP ANCHOR

- A Rooftop Attachment System: Engineered, attachment system specifically designed for installation without the need for exposed roof penetrations, ballast or flashings, and without causing damage to the roofing membrane.
- B Provide rooftop anchors with the following:
 - 1 Matching waterproofing type and brand.
 - 2 Documentation of acceptance of attachment solution by roofing manufacturer issuing project guarantee.
 - 3 Documentation of a direct path of attachment from decking through attached equipment
 - 4 Engineering certification stating no potential path for potential water into or through the attachment assembly. Seals, gaskets, sealant and other non-permanent, non-structural solutions are not acceptable.
- C Provide the following:
 - 1 U-Anchor 2200 Liquid Applied for use with Reinforced Liquid Applied Systems
 - 2 U-Anchor 2400 Single Ply for use with PVC, TPO, KEE and EPDM
 - 3 U-Anchor 2600 Asphalt for use with APP or SBS Modified Bitumen roof Built Up Asphalt Systems

- 4 U-Anchor 2800 Coatings for use with roof assemblies coated with One-Part Acrylic Coatings, as well as One-Part and Two-Part Urethane Coatings.
- D Provide supporting accessories to complete the proper installation of any rooftop items that are designed as a system and are provided by the rooftop equipment attachment supplier with a sole source warranty:
 - 1 Industrial Process Equipment
 - 2 Guy Lines/Guide Wires
 - 3 Pipe Supports/Hangers
 - 4 Ductwork
 - 5 Plumbing
 - 6 Life Safety
 - a Tie-offs
 - b Safety Railing
 - 7 Snow Retention
 - 8 Visual Screens
 - 9 Signage
 - 10 Walkway, Crossover & Equipment Platform Access
 - 11 Electrical Conduit and Fuse Boxes
 - 12 Lightning Protection Equipment
 - 13 Surveillance Equipment
 - 14 Exterior Lighting
 - 15 Gas and Chemical Lines
 - 16 Photovoltaic and Solar Hot Water systems

PART 3 - EXECUTION

3.1 EXAMINATION

- A Verify that roofing system is complete and that roof surfaces are smooth, flat, and ready to receive work of this section.
- B Consult the manufacturer's recommendations and follow all requirements explicitly for installation of adhesive or coating flashing.

3.2 PREPARATION

- A Clean surfaces of roof in areas to receive portable support bases.
 - 1 Sweep loose gravel from gravel surfaced roofs.
 - 2 Remove dirt, dust, oils, and other foreign materials.
- B Use care in handling portable support system components during installation, to avoid damage to roofing, flashing, equipment, or related materials.

3.3 INSTALLATION OF U-ANCHOR

- A Prepare the roof surface by removing all loose debris and clean the area in accordance with the roofing manufacturer recommendation.
- B Place the anchor over the roof membrane and align as per engineering requirements using the notched alignment marks on each side of the membrane cover. (following all roof manufacturer specific installation requirements)
- C Locate bases at spacing indicated by engineering design.
 - 1 Accurately locate and align bases.
 - 2 Provide complete and adequate support of all piping, ducting, and conduit; whether or not all required devices are shown.
- D The use of wood for creating equipment supports is not permitted.
- E Consult roofing manufacturer of existing or new roofing system for the type of isolation pads required between the roof and base any equipment that may be in contact with the roof surface.

3.4 FIELD QUALITY CONTROL

- A When requested by the Architect, provide a factory-trained representative of the manufacturer to visit the site while the work is in progress to assure that the installation conforms to the manufacturers design and installation requirements.

3.5 CLEANING AND PROTECTION

- A Remove all packaging, unused fasteners, adhesive and other installation materials from the project site.
- B Remove adhesive from exposed surfaces of supports and bases, and leave the work area in clean condition.
- C Provide protection as required, leaving the work area in undamaged condition at the time of completion of work.

END OF SECTION



Description

The U-Anchor 2000-PVC is a lightweight rooftop attachment system consisting of a thermoplastic target membrane and an U-Anchor 2000 series plate. The plate is factory welded to the target membrane and a matching thermoplastic cover membrane is applied over the plate and is welded to the target membrane, encapsulating the plate, followed by a separator disk. The U2000-PVC provides a watertight, warranted attachment solution for PVC roofing systems.

The U2000-PVC is ideal for roof assemblies that are difficult to fasten to, and provides additional tax incentives for qualifying rooftop solar installations.

Additionally, the U2000-TPO acts as an effective expansion joint at each rooftop attachment point and minimizes stress to roof components.

Advantages

- Extremely strong and lightweight.
- Fast installation, approximate rate of 12 per man hour.
- Installs on any flat or low slope surface.

U-Anchor Attachment

The U2000-PVC is attached to a fully adhered roofing system by hot air welding around the perimeter edge consistent with the specified roofing manufacturer's hot air welding specifications. *(Alternative options available for mechanically attached roof assemblies.)*

Location and spacing of each U2000-PVC is dictated by project specific engineering.

Equipment Attachment

To securely mount your rooftop equipment to the U-Anchor, after its installed, the connection nut must be tightened to approximately 20-25 ft.-lbs.

Use a calibrated torque wrench during install to ensure appropriate results are achieved.

Refer to product documentation for detailed installation and component requirements.

Testing

Results are based on plate performance only.

- Shear and Tension values vary dependent upon roof assembly.
- Contact engineering for specific values.

Tested in accordance with ICC AC467

Individual roof deck assembly tests available upon request as application specific results may vary.

Warranty

- 20 Year Limited Material Only Warranty.
Subject to terms and conditions.

Product Specifications

Bolts

- 3/8"-16 x 1.5" Bolt*
- Material Type: 304 Stainless Steel

Plate *(encapsulated between the membranes)*

- Outer Diameter: 5.5"
- Steel Thickness: 0.047" (1.194mm)
- Material Type: Galvanized Steel G90

Target Membrane

- Manufacturer: Brand or Non-Brand Specific*
- Color: Default White*
- Length: 15.75"
- Width: 15.75"
- Thickness: Default 60 mil*

Patents

- Visit www.anchorp.com/patents

Packaging Specifications

- Sold Individually OR Full Box Quantity
- Individual Weight: Approx. 1.1875 lbs
- Full Box Quantity: 10 units
- Box Weight: Approx. 17 lbs
- Box Dimensions: 17" x 11" x 17"
- Full Pallet Quantity: 30 boxes
- Pallet Dimensions: 48" x 40" x 67"

* Specified option is standard. Custom options may be available for additional charge. Lead times may apply depending on roofing manufacturer and product availability.

All representations herein are premised on proper installation and use of approved components. Failure to properly install or use of unapproved components voids all Anchor Products representations.

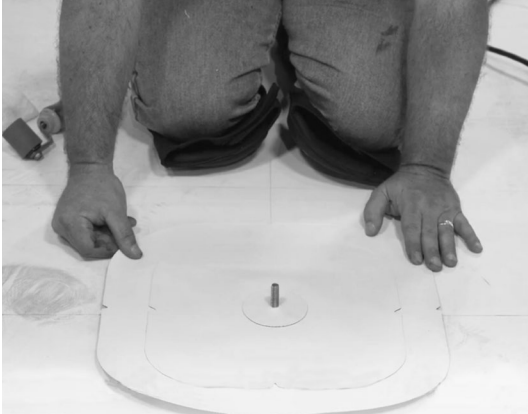
Anchor Products systems are included in many roofing manufacturers' guarantees! Please contact us for more information.



U-ANCHOR INSTALLATION

U2000-PVC, TPO, KEE, TPA Roof Membranes

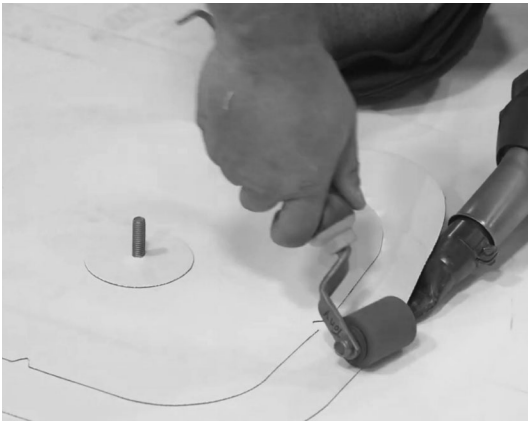
The following instructions are meant to be utilized by an experienced and professional roofing contractor using the proper equipment, techniques, and safety protocols – not just the average handyman. Each installation should always follow the specified roofing manufacturer's written specification.



STEP 1

Align the U-Anchor according to the engineered design. Most designs are transferred to the roof surface with chalk lines.

**Avoid using Permanent chalk - such as red chalk.*



STEP 2

Clean the roof surface with the manufacturer's recommended cleaner.

Using the manufacturer's written specifications, hot air weld the perimeter edge of the cover membrane using a 2-inch roller to achieve a minimum 2-inch weld around the perimeter.

Probe the seam to make sure the membrane is welded properly.
If required, apply seam sealant in accordance with the roofing manufacturer's specifications.





**ANCHOR
PRODUCTS™**
Secured Mounting Solutions

SOLAR

SOLUTION GUIDE





Solar Mounting Solutions
So Simple, They Are Brilliant.

Roofing Experience: A Vital Necessity

Anchor Products evolved out of the roofing industry.

We started as roofers that focused on understanding and mastering all types of low slope, single-ply commercial roofing, and with that knowledge, we created the perfect mounting solutions for Solar Installers. Our Solutions allow solar professionals to mount a photovoltaic system to the roof with the utmost confidence, while providing reliability that the system will remain in place and assure that no damage will be done to the roof.

Partner with us for our reliable solutions. Because we are roofers first, the roof surface that you are making installations on stays protected, every single time.

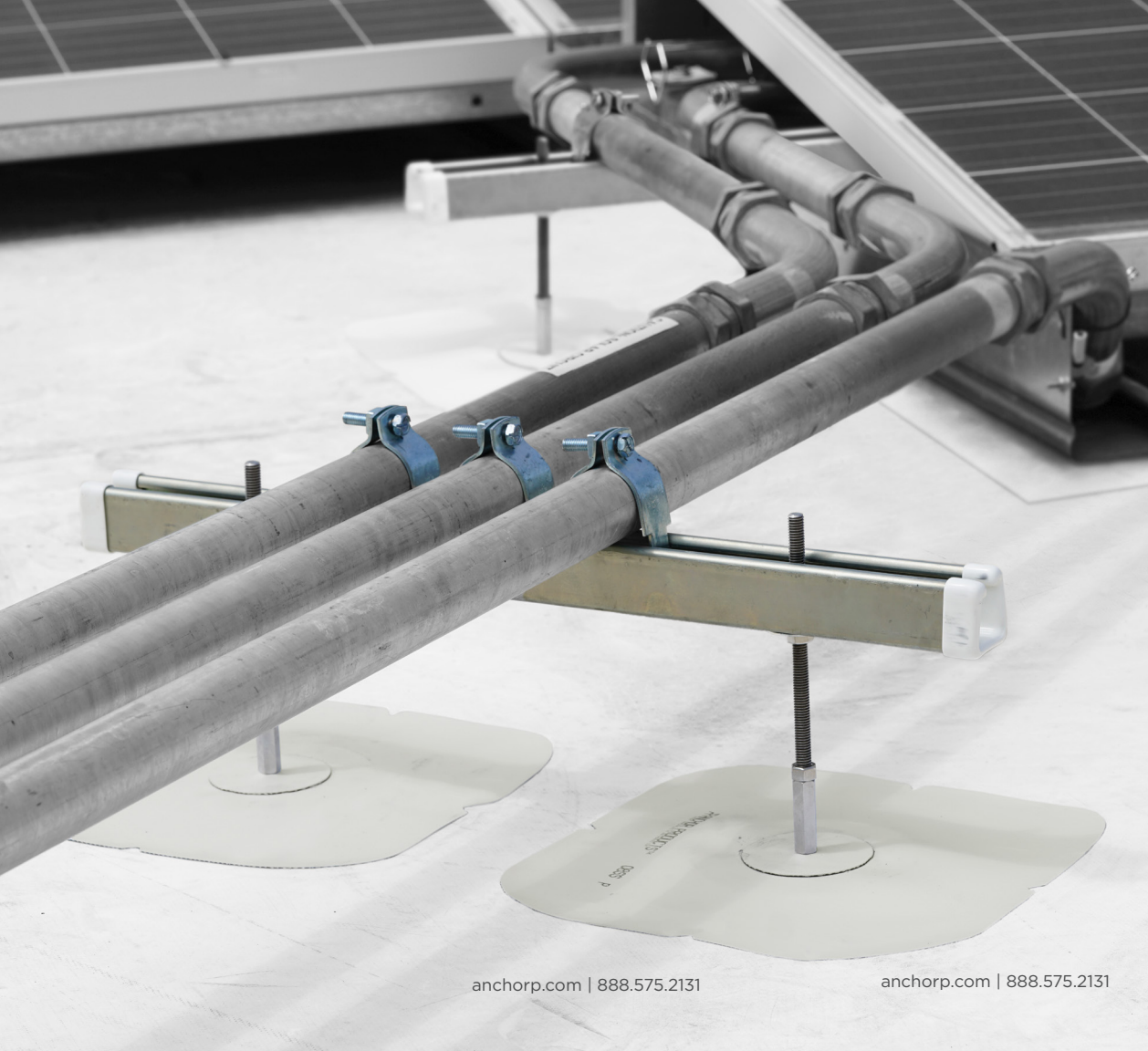
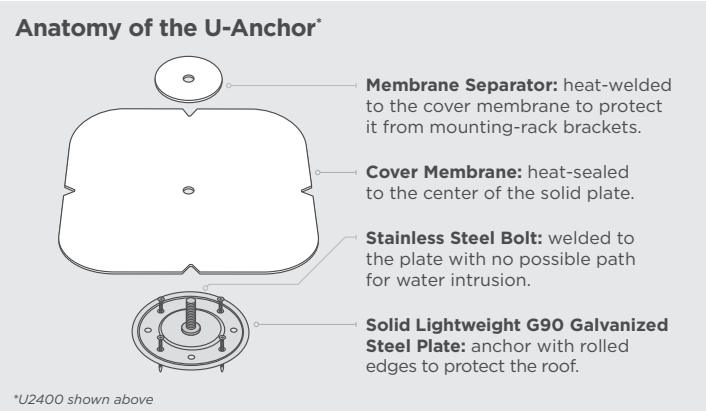


**ANCHOR
PRODUCTS™**
Secured Mounting Solutions

Key Reasons Using U-Anchor Matters for Solar Array Installations

U-Anchors combine strength, efficiency and versatility across the spectrum of solar installations.

U2400 is a lightweight rooftop attachment system consisting of a U-Anchor 2000 Series plate and the same cover membrane of your roof. The membrane is factory heat-welded to the top of the plate. It provides a watertight, manufacturer-accepted attachment for mechanically attached and fully adhered single-ply membranes. U2400 is available for EPDM, KEE, PVC and TPO roofing materials. The U-Anchor installs easily in minutes, saving you time and manpower while reinforcing the strength of your solar panels.



U-Anchor is the Right Choice

Efficient Installation
Not only is the installation quick, it is very cost effective. The installation of the U-Anchor system results in reduced cost in labor, maintenance and liability. A win-win all the way around.

Superior Strength
Each U-Anchor shows exceptional resistance to both tension and shear. The attachment provides unparalleled securement for your solar panel system against high winds, seismic events or any other natural hazards.

Universal Application For All Roof Types
This system can be safely attached to commercial grade TPO, PVC, EPDM, Asphalt and coated roofs. The U-Anchor is a non-penetrating securement method. Accepted by all major North American roofing manufacturers.

Lightweight
U-Anchor is lighter and adds significantly less weight to the roof than other methods. Transportation and handling of the U-Anchor system is much easier than the industry standard methods used today.

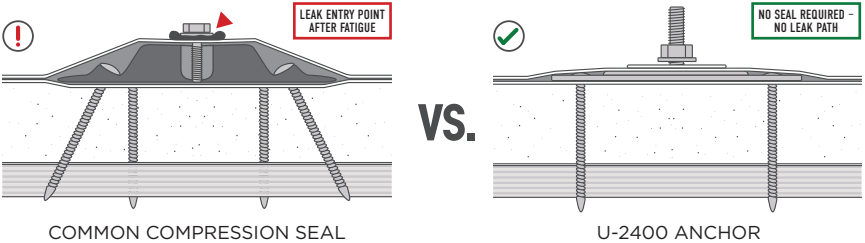
Simplified Engineering With Consistent Design
The U-Anchor is a fully-designed attachment system, tested and proven to provide a consistent performance in strength, regardless of weather and other natural occurrences. It provides a better solution for commercial rooftop systems.

U2000 SERIES 5.5" x 5.5" Galvanized Steel Plate



Solid Plate Technology is Superior to Compression Seals

Compression seal technology is vulnerable to leaking. U-Anchor solid plate solutions are not. It is just that simple.



! COMPRESSION SEAL ISSUES:

A doughnut hole in the base compression seal is an opening in the attachment, where water can collect and can create a water path leading to a leak.

Vibrations and movement cause the fasteners that secure the compression seal pieces to back out, compromising the seal and allowing for catastrophic leaks.

Wind loads apply tension to a compression seal, pulling its components apart and allowing water to get under the seal.

Bolts, compression seals and caulk require invasive inspections and necessary maintenance, which are not included in warranty coverage.

Frequent inspections and constant maintenance require adjustments to hardware and components, which often lead to downtime and possibly interruption of business.

✓ U-ANCHOR SOLUTION:

Fully-adhered U-2000 Solutions are heat-welded to the roof, which forms a non-penetrating waterproof protective shield.

U-2000 Anchors are engineered as an integrated rooftop component and are unaffected by vibration or movement.

When installed properly, U-2000 Series anchors are part of the roof. They will not come apart and water cannot get in.

The U-Anchor is the ONLY solution included in some roofing manufacturers' guarantee. No maintenance is required to uphold the Anchor Products warranty.

No maintenance means no downtime. No worries.

Comparing a Fully Anchored™ System to a Ballasted System

Traditional ballast may still be a popular method, however Fully Anchored™ is the fastest growing solution in the market.

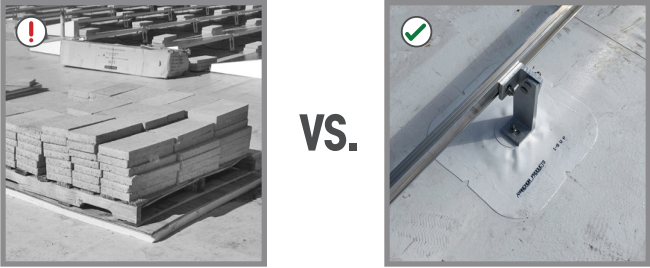
When choosing roof attachment securement for your solar investment, whether it's a ballasted solar array or the fully attached U-Anchor securement from Anchor Products, you must consider performance, cost, ease of installation, and protection of the roof surface.

! BALLAST ISSUES:

Ballast is considered an overburden to the roof and manufacturers will not cover damages caused by the effects of ballast.

Ballast can be ineffective in high wind or seismic event scenarios, as they can be blown from their placement and damage rooftop equipment, as well as the roof surface.

Ballast blocks typically weigh 30 lbs. each, putting unnecessary weight on the crew and the structure itself, which causes more damage over time.



The U-Anchor stands out when it comes to holding strength, efficiency and cost. If you're still not sure, have our team do a cost analysis and walk you through the installation process. We will demonstrate why the U-Anchor is the superior choice for securing your solar array.

✓ U-ANCHOR SOLUTION:

U-Anchors can be included in the warranty of the roof, and are allowed as a "roof-friendly" solution by all manufacturers.

U-Anchors fastened to the roof will prohibit all movement and will eliminate issues caused by vibrations, preventing stress on the racking, array, connections, conduit and roof membrane.

U-Anchors weigh less than a pound, and in turn, offset thousands of pounds of ballast. They are easy to load and will not damage the roof. A quick installation makes them more time efficient as well.

PROVEN RELIABLE:

Shedd Aquarium

CHICAGO, ILLINOIS

Chicago's blustery lake winds and extreme temperatures are no match for the strength and reliability of the U-Anchor Solutions.



BY THE NUMBERS:

ANCHOR PRODUCT SOLUTION	U-ANCHOR U2800-COATINGS™
SOLAR PANELS	913
PROJECT SIZE	264 KW
INSTALLED BY	INNOVATIVE

PROVEN STRONG:

Westin Dawn Resort

ST. MAARTEN

The U-Anchor proved its strength by withstanding gale-force winds of Category 5 Hurricane, Irma, as our mounting racks remained intact with only debris damage.



BY THE NUMBERS:

ANCHOR PRODUCT SOLUTION	U-ANCHOR 2000
PROJECT SIZE	900 kW
MODULES INSTALLED	913
INSTALLED BY	SXW WIND POWER
HURRICANES SURVIVED	3 (CATEGORY 1, 4, 5)

PROVEN COMPLIANT:

Mandalay Bay

LAS VEGAS, NEVADA

The U-Anchor continues to set standards by exceeding code with its tested, cost effective, non-penetrating solutions as demonstrated atop this iconic desert destination.



BY THE NUMBERS:

ANCHOR PRODUCT SOLUTION	U-ANCHOR 2000
SOLAR PANELS	21,325
PROJECT SIZE	6.4 MWp
INSTALLED BY	SUNORA ENERGY SOLUTIONS

PROVEN SECURE:

iPark Hudson

YONKERS, NEW YORK

Flying debris damaged some of the solar panels at this exclusive office park during Superstorm Sandy, but the U-Anchor did not falter in those high winds, protecting that rooftop investment.



BY THE NUMBERS:

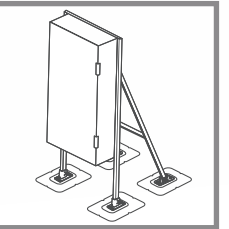
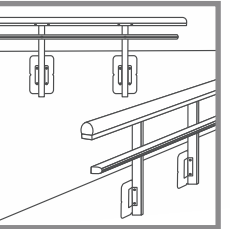
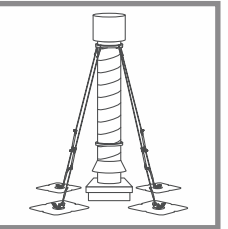
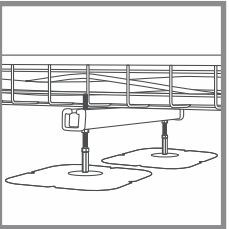
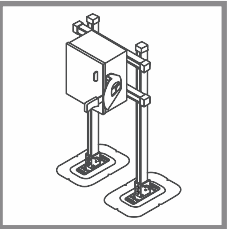
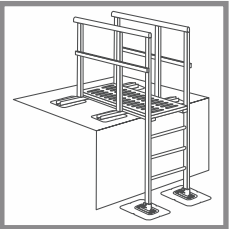
ANCHOR PRODUCT SOLUTION	U-ANCHOR 2000
PROJECT SIZE	1.22 MW
SOLAR PANELS	3,700
ROOF AREA	110,000 SQ FT
HURRICANES SURVIVED	2 (CATEGORY 1, 4)

anchorcorp.com | 888.575.2131

More Than Just Solar Attachments

There is no solar array system project too big or too small for us to help you with your attachment needs. Utilize the U-Anchor and AP Solutions to secure your conduit, junction boxes,

combiner boxes, batteries and electrical boxes, and many other rooftop equipment securement needs. Our team will help find the perfect anchor and solution to fit the needs of your project.



WE HAVE ALL THE SOLUTIONS FOR ANY OF YOUR ROOFING NEEDS:



MEP



GUARDRAIL



LIGHTNING PROTECTION



ACCESS



PIPE/CONDUIT SUPPORT



FALL SAFETY



SNOW RETENTION



ELECTRICAL



EQUIPMENT SECUREMENT



SOLAR



INVERTER BOXES

anchorcorp.com | 888.575.2131

Anchor Products Solar Solutions Guide

Custom Orders Built To Your Needs

We will help you customize a proven solution for your solar installation.

Why Anchor Products

Anchor Products was first-to-market with a seamless, non-penetrating solar attachment in 2014, and it remains the only manufacturer of lightweight, watertight anchors for solar and all other commercial rooftop equipment.

Anchor Products – reinforcing your trust in our ease of installation, superior strength, universal use and our roof-friendly application to remain code compliant.

- **Simple Installation** – Installation made easy to anchor your rooftop equipment to the roof's surface safely and easily.
- **Superior Strength** – The strength of the U-Anchor and its Solutions is first class and is able to resist high levels of tension and shear to provide securement in high winds or seismic events.
- **Rooftop Compatibility** – Anchor Products secures equipment and accessories for TPO, PVC, EPDM, Asphalt and coated roofs, and matches your roof's color and material..
- **Roof-Friendly and Code Compliant** – The U-Anchor is a non-penetrating securement method. Accepted by major North American roofing manufacturers. This method is code compliant to maintain the integrity of the roof's warranty.



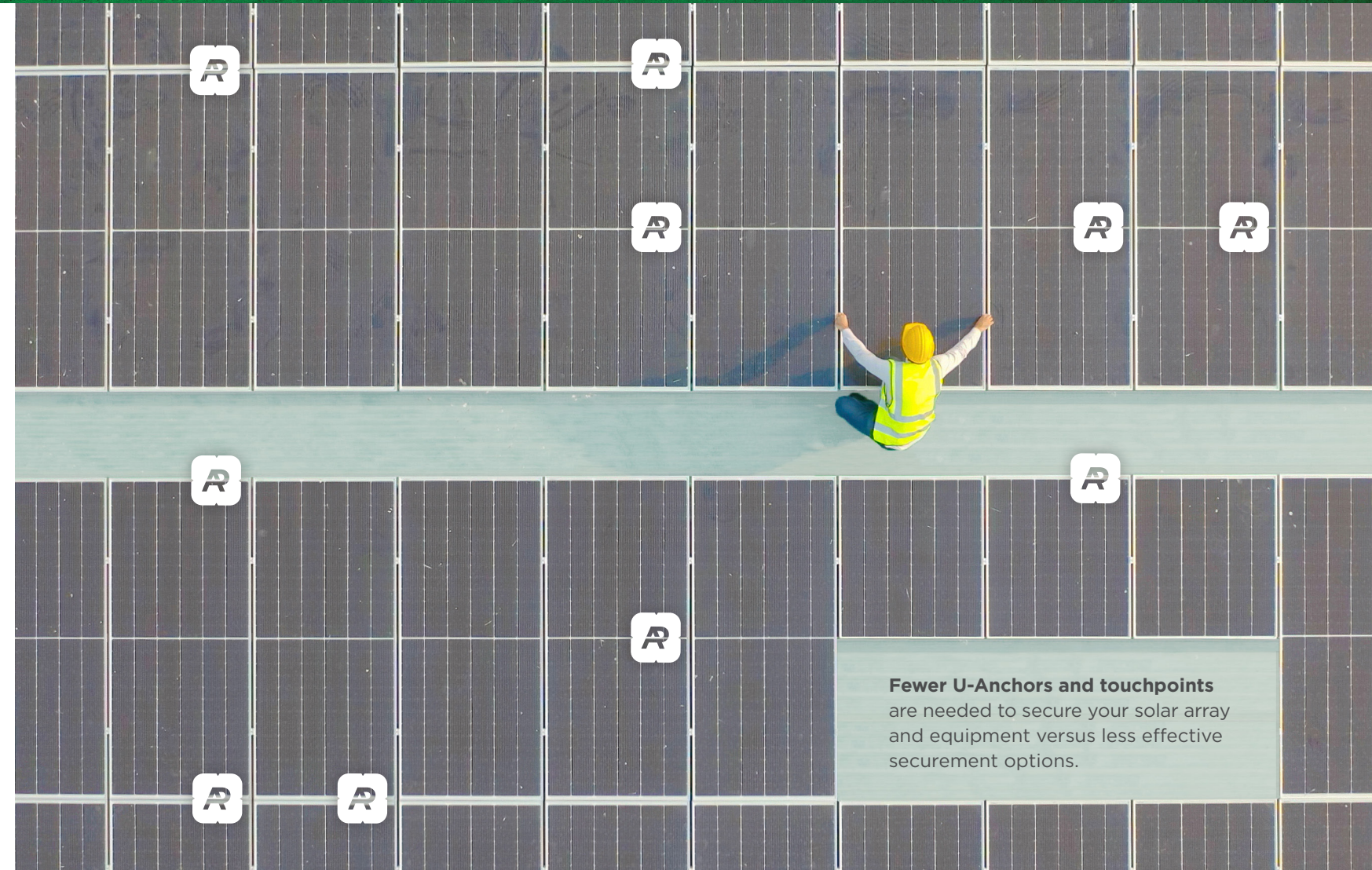
Let us help you find your Solution and educate you on the benefits of the Solar Investment Tax Credit.

Roofing projects that include solar installation are eligible for the Solar Investment Tax Credit— plus bonus depreciation on the roof. Ask us how the Solar Tax Credit can work for you.

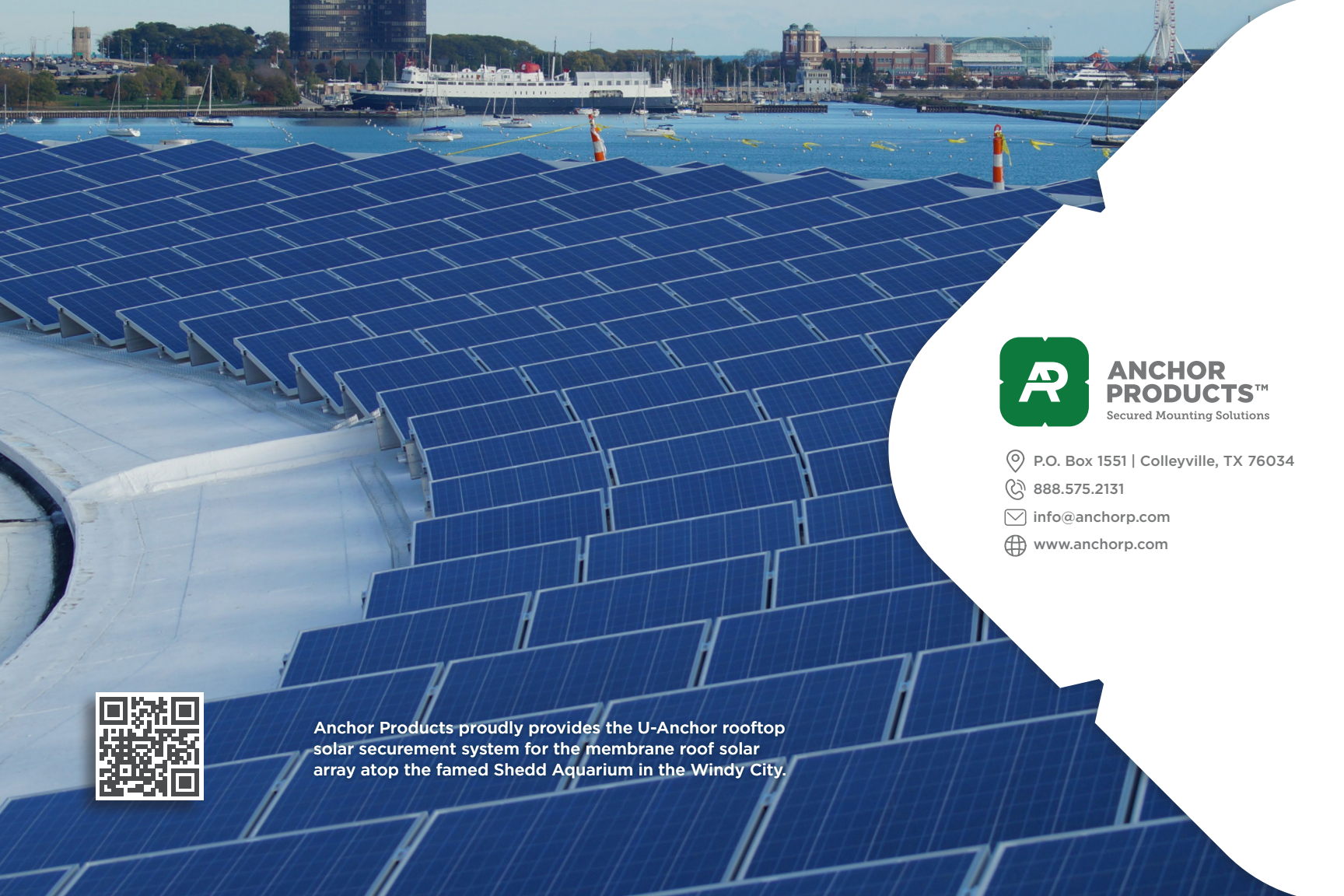
If your solar installation includes conduits, junction boxes, combiner boxes, batteries or electrical boxes – or any combination – Anchor Products will work with you to design a solution that fulfills your securement needs.

**Put the Anchor Products advantage to work for you.
Contact us today to learn how:**

888-575-2131 or info@anchorcorp.com



Fewer U-Anchors and touchpoints are needed to secure your solar array and equipment versus less effective securement options.



**ANCHOR
PRODUCTS™**
Secured Mounting Solutions

📍 P.O. Box 1551 | Colleyville, TX 76034

📞 888.575.2131

✉️ info@anchorp.com

🌐 www.anchorp.com



Anchor Products proudly provides the U-Anchor rooftop solar securement system for the membrane roof solar array atop the famed Shedd Aquarium in the Windy City.

"General Decision Number: MI20230100 10/27/2023

Superseded General Decision Number: MI20220100

State: Michigan

Construction Type: Building

County: Washtenaw County in Michigan.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 14026 generally applies to the contract.. The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 13658 generally applies to the contract.. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be

adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	02/03/2023
2	04/07/2023
3	07/21/2023
4	09/01/2023
5	09/08/2023
6	10/20/2023
7	10/27/2023

ASBE0025-003 06/01/2021

Townships of Ann Arbor, Augusta, Lodi, Northfield, Pittsfield, Salem, Saline, Scio, Superior, Webster, Ypsilanti & York

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 35.41	32.91

ASBE0047-001 07/01/2023

Townships of Bridgewater, Dexter, Freedom, Lims, Lyndon, Manchester, Sharon & Sylvan

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 36.62	19.78

* BOIL0169-001 06/01/2023

	Rates	Fringes
BOILERMAKER.....	\$ 39.95	35.38

* BRMI0009-010 08/01/2023

	Rates	Fringes
BRICKLAYER.....	\$ 39.24	27.68
TILE FINISHER.....	\$ 28.58	21.34
TILE SETTER.....	\$ 38.99	23.31

 CARP0687-001 06/01/2021

	Rates	Fringes
CARPENTER, Includes Drywall Hanging, Form Work, and Metal Stud Installation.....	\$ 35.16	29.22

 CARP1045-001 06/01/2020

	Rates	Fringes
CARPENTER (Floor Layer - Carpet, Resilient, & Vinyl Flooring).....	\$ 30.60	24.58

 CARP1102-002 06/01/2020

	Rates	Fringes
MILLWRIGHT.....	\$ 35.30	34.10

 ELEC0252-010 06/01/2021

	Rates	Fringes
ELECTRICIAN.....	\$ 47.46	27%+12.25

 ENGI0324-017 06/01/2023

	Rates	Fringes
OPERATOR: Power Equipment		
GROUP 1.....	\$ 47.49	25.35
GROUP 2.....	\$ 46.29	25.35
GROUP 3.....	\$ 44.79	25.35
GROUP 4.....	\$ 44.49	25.35
GROUP 5.....	\$ 43.67	25.35
GROUP 6.....	\$ 42.81	25.35
GROUP 7.....	\$ 41.84	25.35
GROUP 8.....	\$ 40.13	25.35
GROUP 9.....	\$ 31.79	25.35

FOOTNOTES:

Tower cranes: to be paid the crane operator rate determined by the combined length of the mast and the boom. If the worker must climb 50 ft. or more to the work station, \$.25 per hour additional.

Derrick and cranes where the operator must climb 50 ft. or more to the work station, \$.25 per hour additional to the applicable crane operator rate.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Crane with boom and jib or leads 400' or longer

GROUP 2: Crane with boom and jib or leads 300' or longer

GROUP 3: Crane with boom and jib or leads 220' or longer

GROUP 4: Crane with boom and jib or leads 140' or longer

GROUP 5: Crane with boom and jib or leads 120' or longer

GROUP 6: Regular crane operator, and concrete pump with boom operator

GROUP 7: Backhoe/Excavator/Trackhoe, bobcat/skid Loader, broom/sweeper, bulldozer, grader/blade, highlift, hoist, loader, roller, scraper, tractor & trencher

GROUP 8: Forklift & extend-a-boom forklift

GROUP 9: Oiler

IRON0025-019 06/01/2022

	Rates	Fringes
IRONWORKER		
REINFORCING.....	\$ 31.43	34.77
STRUCTURAL.....	\$ 34.85	40.42

LAB00334-005 06/01/2023

	Rates	Fringes
LABORER: Landscape & Irrigation		
GROUP 1.....	\$ 25.97	8.60
GROUP 2.....	\$ 23.75	8.60

CLASSIFICATIONS

GROUP 1: Landscape specialist, including air, gas and diesel equipment operator, lawn sprinkler installer, skidsteer (or equivalent)

GROUP 2: Landscape laborer: small power tool operator, material mover, truck driver and lawn sprinkler installer tender

LAB00499-005 08/01/2022

	Rates	Fringes
LABORER		
Common or General; Grade Checker; Sandblaster.....	\$ 30.66	14.70
Mason Tender - Brick; Mason Tender -		
Cement/Concrete.....	\$ 31.21	14.70
Pipelayer.....	\$ 31.02	14.70

PAIN0022-003 06/01/2022

	Rates	Fringes
PAINTER: Brush and Roller.....	\$ 32.85	20.41
PAINTER: Drywall Finishing/Taping.....	\$ 32.85	20.41
PAINTER: Spray.....	\$ 26.86	17.66

PAIN0357-002 06/01/2023

	Rates	Fringes
GLAZIER.....	\$ 38.66	20.98

PAID HOLIDAYS: New Year's Day, Decoration Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day; provided that the employee has worked the last full regular scheduled work day prior to the holiday, and the first full regular scheduled work day following the holiday, provided the employee is physically able to work.

PLAS0514-006 06/01/2018

Rates	Fringes
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CEMENT MASON/CONCRETE FINISHER...	\$ 31.47	13.81
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PLUM0190-004 06/01/2023

	Rates	Fringes
PIPEFITTER (Including HVAC Pipe Installation; Excluding HVAC System Installation).....	\$ 46.88	23.70
PLUMBER, Excludes HVAC Pipe and Unit Installation.....	\$ 44.31	23.70

ROOF0070-001 05/08/2023

	Rates	Fringes
ROOFER.....	\$ 39.67	18.85

SFMI0704-001 08/01/2023

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 49.72	32.00

SHEE0080-001 06/01/2022

	Rates	Fringes
SHEET METAL WORKER, Includes HVAC Duct and Unit Installation.....	\$ 47.64	26.15

TEAM0247-001 06/01/2023

	Rates	Fringes
TRUCK DRIVER GROUP 1 Flatbed; Pickup; Dump & Tandem.....	\$ 29.82	0.70+a+b
GROUP 2 Semi.....	\$ 29.97	0.70+a+b
GROUP 3 Lowboy.....	\$ 30.07	0.70+a+b

PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. If any of the above holidays fall on a Sunday, the following

Monday shall be considered the holiday and, if work is performed, the rate shall be double time.

FOOTNOTE:

a. \$456.70 per week, plus \$67.10 per day.

* SUMI2011-025 02/01/2011

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 18.48	7.93
TRUCK DRIVER: Tractor Haul Truck.....	\$ 13.57 **	1.18

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20) or 13658 (\$12.15). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor

200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

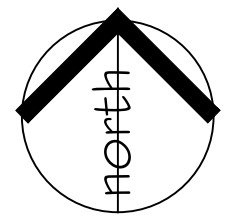
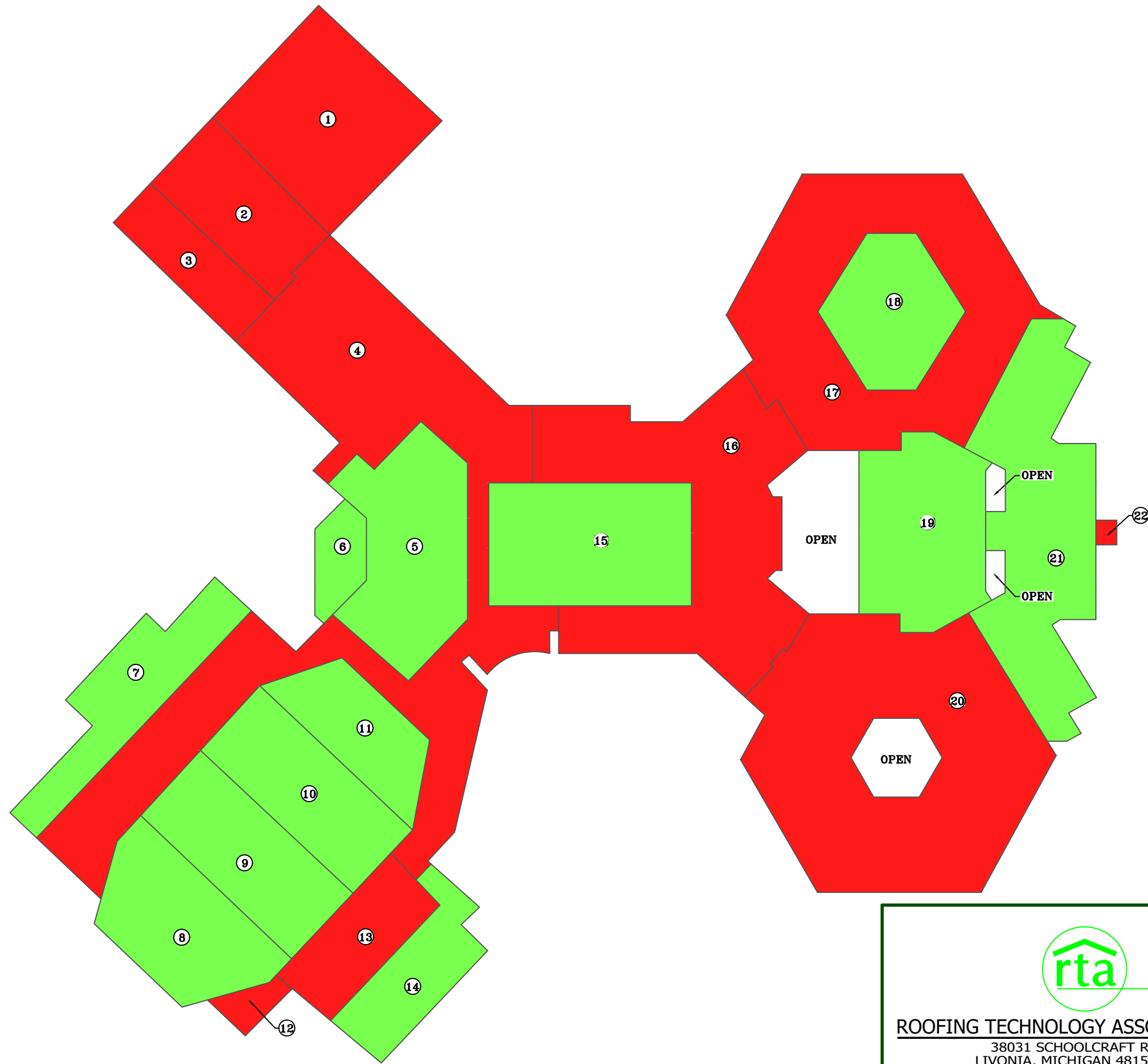
Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

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legend



steel deck



gypsum deck

GENERAL NOTES:

1. All areas and dimensions shown are approximate and based upon rough field measurements taken by representatives of Roofing Technology Associates, Ltd.
2. This drawing should not be used for bidding or estimating purposes. Contractors are responsible for their own field measurements, quantities and verification of conditions shown.



ROOFING TECHNOLOGY ASSOCIATES, LTD.
38031 SCHOOLCRAFT ROAD
LIVONIA, MICHIGAN 48150-1065
(734) 591-4444

ROOF DECK PLAN

SALINE SCHOOLS
SALINE MIDDLE SCHOOL
7190 N MAPLE ROAD
SALINE, MICHIGAN

Project No: 23-071	Drawn By: APW	Plate No: 1
Date: NOV, 2023	Checked By: JJW	