

ADDENDUM NO. 1

PROJECT NAME: Campus Rec Roof Replacement
UNL PROJECT NUMBER: C000P005
UNL INVITATION NUMBER: 2330-14-7200

CONSULTANT: UNL Facilities Management & Planning
ADDRESS: 1901 Y Street, Lincoln, NE 68588

DATE OF ISSUANCE: Tuesday, March 18, 2014
DATE OF BID OPENING: Tuesday, March 25, 2014 @ 2:00 P.M.

The bid documents dated March 1, 2014 for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

QUESTIONS AND MODIFICATIONS TO THE PROJECT MANUAL:

MODIFICATIONS:

SECTION 01 23 00 – ALTERNATES

1. Modify following Part 3.1 SCHEDULE OF ALTERNATES
ALTERNATE NO. 2: Provide 72 MPH wind rating on new roof system **and warranty**, rather....

SECTION 07 53 00 – ELASTOMERIC MEMBRANE ROOFING

1. Modify following Part 1.08 SPECIAL PROJECT WARRANTY ,
A.Provide wind uplift coverage to **90 MPH F.M.I-90**. The guarantees shall....

SECTION 07 71 13 – METAL COPING

1. Remove the following Part 1.4 QUALITY ASSURANCE
~~B. The coping product shall be listed in current Factory Mutual Research Corporation Approval Guide approved for FM I-75.~~
1. Modify following Part 1.8 WARRANTY/GUARANTEE
A.Provide a 20 year warranty to be included in complete system warranty from roof system manufacturer.

QUESTIONS AND CLARIFICATIONS FROM PRE-BID MEETING:

1. QUESTION: What is the distance from the gym floor to the bottom of the main roof deck/Ex. Skylights?
RESPONSE: 32' – 2" from Finished Gym Floor to Bottom of Metal Decking

ADDENDUM NO.

Project Name:

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2. CLARIFICATION: SCHEDULE – Work must start at the Mechanical Room roof and work until complete.
3. CLARIFICATION: SCHEDULE – May 12 – 16, 2014 North-most (4) rows of (4) skylights (16 total) must be removed and the deck infilled/patched at interior side. During UNL Campus Rec Shutdown, temp. weather seal at roof is the responsibility of the roofing contractor.
4. See attached Pre-Bid Meeting Agenda to Key Items Discussed at Meeting.

QUESTIONS AND MODIFICATIONS TO THE DRAWINGS:

DRAWING NO. – REFERENCE (LIST IN ORDER)

QUESTIONS: How do we get the steel L4" x 4" x 3/16" steel angles out from above?

1. QUESTION How do we get the steel L4" x 4" x 3/16" steel angles out from above?

RESPONSE: Trim the existing 20ga. metal decking as required at over-lap of decking at stl angles. Minimum of 6" bearing lap is required at existing metal deck to roof truss connection.
Break existing welds at Stl angles to roof truss top chord as required to remove.

MODIFICATIONS:

DRAWING NO. A.2 KEY NOTE 11

1. Replace entire note with the following note:
"Add (1) new pitch pocket for new chiller unit plumbing and electrical (installed by others) in coordination with roof replacement. Provide new slip sheets for below new wood sleeper blocks"

DRAWING NO. A.3 DETAIL 6

1. Add the following leader & note:
"Carefully trim existing metal decking for required clearance to remove L4" x 4" x 3/16" back to back STL angles"

END OF ADDENDUM NO. 1

SECTION 01 23 00 - ALTERNATES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for Alternates.
- B. Definition: An Alternate is an amount proposed by Bidders and stated on the Bid Form for certain construction activities defined in the Bidding Requirements that may be added to or deducted from Base Bid amount if the Owner decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems or installation methods described in Contract Documents.
- C. Coordination: Coordinate related Work and modify or adjust adjacent Work as necessary to ensure that Work affected by each accepted Alternate is complete and fully integrated in the project.
- D. Notification: Immediately following the award of the Contract, prepare and distribute to each party involved, notification of the status of each Alternate. Indicate whether Alternates have been accepted, rejected or deferred for consideration at a later date. Include a complete description of modifications to Alternates.
- E. Schedule: A Schedule of Alternates is included at the end of the Section. Specification Sections referenced in the schedule contain requirements for materials and methods necessary to achieve the work described under each Alternate.
 - 1. Include as part of each Alternate, miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

ALTERNATE NO. 1: Provide 90 mil membrane and 30 year mfg system warranty.

ALTERNATE NO. 2: Provide 72 MPH wind rating on new roof system and warranty, rather than spec'd 90 MPH.

ALTERNATE NO. 3: Deliver all ballast rock from site to 6900 W. Superior St, dump and leave.

END OF SECTION

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SECTION 07 53 00 – ELASTOMERIC MEMBRANE ROOFING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. EPDM single-ply membrane roofing systems, including related insulation and auxiliary materials.
- B. The contractor shall furnish all labor, materials, tools and equipment, and perform all work and services necessary for or incidental to the furnishing and installation, complete, of all roofing, insulation, surfacing and associated flashing on the Lied Center Exterior Repairs, as specified, in accordance with provisions of the Contract Documents, current manufacturers specifications, The NRCA Roofing and Waterproofing Manual, completely coordinated with work of all other trades.
- C. Although such work is not specifically shown or specified, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure, watertight, and complete installation.
- D. Roof insulation related to roofing is specified in this Section.
- E. Sheet metal related to the roof is specified in this Section.
- F. Related Sections include the following:
 - 1. Division 01 Section "Alternates" for alternate to provide 30 year warranty.
 - 2. Division 07 Section "Metal Coping"
 - 3. Division 07 Section "Joint Sealants"

1.02 SUBMITTALS

- A. Provide within 10 working days of the bid opening. Failure to provide information will constitute cause to reject the bid.
- B. Upon request, provide written proof of the Contractor and Membrane/System qualifications as required in Contractor and Manufacturer's Qualification in this section.
- C. Product data for each type of product specified. Include data substantiating that materials comply with requirements. Note: It shall be incumbent upon the contractor to provide side by side technical data from the manufacturer to prove, to the owner's satisfaction that the proposed material/specification meets or exceeds that specified.
- D. Sample of the roofing Warranty as specified in this section.
- E. Copy of the manufacturer's specification and all details to be used on this project. Special or non-standard details must be approved by the owner and manufacturer prior to use.
- F. Submit proposed tapered insulation layout from the insulation manufacturer. When requested, submit samples for other materials, or other data for approval by the owner.

SECTION 07 53 00 – ELASTOMERIC MEMBRANE ROOFING

1.03 INSTALLER QUALIFICATIONS

- A. Experience: Minimum of 5 years experience in the type of roof that is being specified. Installer shall provide written proof of experience in the form of a list of 5 similar projects with contact name and telephone number. Some of which shall be at least 5 years old.
- B. Bidding Contractors shall have a fully staffed office located within 200 miles of Lincoln.
- C. Certification: Certified in writing by the roofing membrane manufacturer as qualified to install the specified roof. Installer shall be required to provide copy of certificate.
- D. Field supervision: Installer shall maintain a full-time supervisor/foreman on the job site at all times when roofing work in progress. This supervisor/foreman shall be experienced and qualified to install the specified roof system. He shall have available at the job site, a copy of this specification, and all applicable details and instructions from the roofing manufacturer and NRCA.

1.04 MANUFACTURER QUALIFICATIONS

- A. Experience: Minimum of five years application record on commercial buildings. The Manufacturer shall be required to provide a list of 5 projects, with contact name and telephone number, which have had the manufacturers system installed for 5 years or more.
- B. Warranty Inspectors: Manufacturer's qualified technical representatives. Inspector shall have a minimum of five (5) years of roofing inspection experience. (Sales representatives shall not conduct warranty inspections.)

1.05 PRE-ROOFING CONFERENCE

- A. Before starting this project, the installer will arrange a conference at project the site or other mutually agreed location, with UNL Project Manager, roofing Installer, roofing manufacturer (when requested), installers of related work, and other entities concerned with roofing performance. Provide at least 48 hours advanced notice to participants prior to convening pre-roofing conference.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Roof insulation : Deliver packaged in bundles with wraps showing pieces per bundle, piece size, and origin of manufacture.
- B. Store all roofing materials in compliance with the manufacturer's requirements. Keep insulation and roofing materials dry at all times. Immediately remove wet or damaged roofing materials from the job site; do not incorporate them into the work.
- C. Store and handle materials or equipment in a manner to avoid damage to the owner's property, building, and roof deck.

1.07 PROJECT CONDITIONS

- A. Before construction begins verify the existing condition of all roof drains, roof top equipment, sidewalks, walls, windows, and other property at the job site. It is the responsibility of the contractor to; clean, repair, or replace, as necessary, property damaged or destroyed while completing this project.
- B. The contractor may use the owner's electrical power and water at no charge.

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- C. The contractor will provide workers with toilet facilities.

- D. Verification by Bidder: The owner makes no representation as to existing conditions. The foregoing information is made available solely as a convenience to the Bidder. Bidder desiring more complete information will be allowed, at his option and in the presence of Owner, to take core samples of the existing construction. Bidder shall repair site of sampling to weather-tight condition before departing premises.

1.08 SPECIAL PROJECT WARRANTY

- A. The roofing contractor shall furnish to the owner, the manufacturer's NO DOLLAR LIMIT (NDL) 20 year material and labor water tightness warranty. Provide wind uplift coverage to ~~F.M. I-90~~ 90 MPH. The guarantees shall start at the date of substantial completion and be paid for by the roofing contractor.

- B. Upon completion of all work and after all materials have been paid for by the Contractor to the manufacturer, the Contractor shall issue a 2-year Unlimited Roofer's Warranty to cover actual costs to repair or replace the roofing system in its entirety due to material or workmanship.
 - 1. The warranty shall not charge the Owner a "proration" of materials or services during the entire warranty period, bus shall repair or replace the roofing system at "actual" costs.
 - 2. The warranty shall be fully paid for by the roofing contractor.
 - 3. The warranty shall start at the date of Substantial Completion of the project as determined by the Architect.
 - 4. The warranty shall not require the Owner's signature.
 - 5. The warranty funds shall be managed by a separate warranty reserve.

- C. The Owner shall be allowed to have emergency repairs made to the roofing by other than licensed roofers, if necessary, in an emergency situation, provided an authorized licensed roofer is subsequently allowed to inspect and repair such emergency work to keep the warranty intact.

PART 2 - PRODUCTS

2.01 LISTINGS

- A. UL Listing: Provide labeled materials that have been tested and listed by UL in "Building Materials Directory" for application indicated, with Class A rated materials/system for roof slopes shown.

- B. Provide roofing system and component materials for Class I construction and F.M. I-90 wind uplift resistance.

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2.02 MANUFACTURERS

- A. Provide primary roofing materials from only one manufacturer, to the extent possible. Provide other required materials not available from the primary roofing materials manufacturer which are recommended by the manufacturer of the primary materials.
- B. Specifications for EPDM membrane Roofing are based upon products as manufactured by Carlisle Syntec Systems, P.O. Box 7000, Carlisle, PA 17013. Tel. 800-479-6832, or approved equal.
- C. Subject to compliance with these Specifications, products of Firestone, Johns Manville, GAF Building Materials Corporation, and Versico are approved equal, -if not listed permission must be granted in writing from UNL.

2.03 MATERIALS

- A. ASBESTOS: Asbestos containing materials shall not be incorporated into the work.
- B. VAPOR RETARDER: Not Required unless specifically noted on plans.
- C. INSULATION:
 - 1. Tapered Polyisocyanurate-Foam Board Insulation: Rigid boards of minimum 2.0-pcf density polyisocyanurate-based foam core bonded to roofing felt facer sheets.
 - 2. Polyisocyanurate-Foam Board Insulation: Rigid boards of minimum 2.0-pcf density polyisocyanurate-based foam core bonded to roofing felt facer sheets with Long Term Thermal Resistance thermal values determined in accordance with CAL/ULC D770. Provide 2" thick boards.
- D. SINGLE PLY MEMBRANE:
 - 1. EPDM Membrane: Ethylene Propylene Diene Monomers formed into uniform, flexible sheets, complying with ASTM D 4637, Type 1.
 - a. Type: Unreinforced EPDM
 - b. Thickness: 60 mils, nominal.
 - c. System type: Fully Adhered
- E. ANCILLARY MATERIALS:
 - 1. Flashing Accessories: Types recommended by manufacturer of single-ply membrane material, provided at locations indicated and at locations recommended by mfg., including adhesive tapes, flashing cements, and sealants.
 - 2. Flashing Material: Manufacturer's standard 60 Mil EPDM system compatible with the specified roof membrane.
 - 3. Mechanical Fasteners: Metal or plastic plates, caps, battens, accessory components, and fastening devices, to suit substrate and as recommended by single-ply membrane manufacturer.

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4. Membrane Adhesive: As recommended by single-ply membrane manufacturer for particular substrate and project conditions, formulated to withstand minimum 60-psf uplift force. Provide adhesives that comply with local requirements limiting volatile organic compounds (VOC). All adhesives shall be solvent based.
5. Wood Products: All wood products incorporated into this project including blocking nailers, dimension lumber shall be kiln-dried, untreated grade #2 or better southern Pine, Douglas Fir or Larch. All plywood shall be untreated.
6. Cants: Wood fiberboard, ASTM C 208.
7. Tapered Edge Strips: Rigid wood fiberboard, ASTM C 208.
8. Roof Drains: All roof drains are existing. Replace any missing, broken or damaged components with like cast iron.
9. Roof Walkway: 30"x30"x.003" thick rubber walkway pad with dimpled surface with factory installed adhesive backing. Complying with ASTM D 2137 and ASTM D 2240.
10. Recovery Board: SecurShield HD Plus, ½" thickness OR approved equal

2.04 SHEET METAL

- A. SMACNA and NRCA Details: Conform metal work with details shown and with applicable fabrication requirements of the latest edition "Architectural Sheet Metal Manual" by SMACNA. Comply with installation details of latest edition "NRCA Roofing and Waterproofing Manual."
- B. Prefabricate units as indicated or provide standard manufactured units complying with requirements.
- C. Fabricate work with flat-lock soldered joints and seams; expect where joint movement is necessary, provide 1-inch-deep interlocking hooked flange filled with mastic sealant.
- D. Galvanized steel sheet, ASTM A 526, G90 (ASTM A 526M, Z 275), commercial quality, or ASTM A 527, G 90 (ASTM A 527M, Z 275), lock-forming quality, hot-dip galvanized steel with 02.0 percent copper, 0.0217 inch thick for counterflashing.
- E. Prefinished steel sheet, 24 gage equal to Vincent Metals ColorKlad, standard color as selected by the owner.
- F. Solder for Sheet Metal: 50:50 tin/lead type (ASTM B 32); rosin flux.

PART 3 - EXECUTION

3.01 WEATHER CONDITIONS

- A. Proceed with roofing work only when existing and forecast weather conditions permit of work to be installed according to manufacturer's recommendations and warranty requirements.

3.02 SUBSTRATE PREPARATION:

- A. Completely tear-off the existing roof, roof insulation, and roof flashing, down to the existing 9/16" deck board and properly dispose of all material in an approved disposal site.

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- B. Comply with manufacturer's instructions to prepare substrate to receive EPDM roofing system. The contractor shall verify the suitability of the substrate for the roofing system being installed.
- C. Take steps necessary to prevent bitumen from penetrating substrate joints, entering building and drains, or damaging roofing system components or adjacent building construction.
- D. Raise equipment curbs as required to provide vertical base flashing requirements. All mechanical and electrical work required for the associated disconnection and reconnection of curb-mounted equipment is included in the work of the contract.
- E. Install wood blocking, cants and nailers as detailed or otherwise required by the membrane manufacturer at perimeter of roof and around all roof penetrations and projections. Nailers shall match the thickness of the insulation in height and provide for positive drainage of water (Ponding water will not be allowed for nailers.) Firmly attach nailers to the deck using anchors as required resist a force of 75 lbs. per lineal foot in any direction, but not less than a minimum of three (3) anchors in each length of nailer, with ½ separation between lengths of nailers.
- F. Where substrates require slope, comply with the insulation and membrane manufacturers' requirements for wood nailers and back nailing of the roofing felts and cap sheet.
- G. Set all existing roof drains at the appropriate elevation to insure proper drainage and no ponding water.

3.03 VAPOR RETARTDER INSTALLATION: Per plans.

3.04 INSULATION INSTALLATION: (@ Skylight Infills)

- A. Comply with insulation manufacturer's instructions and recommendations for handling, installing, and bonding or anchorage of insulation to substrate.
 - 1. Insulation boards shall be no larger than 4'x4' in size.
- B. Extend insulation full thickness in multiple layers, with staggered joints a minimum of 12 inches in each direction, over the entire surface to be insulated, cutting and fitting tightly around obstructions. Form cant strips, crickets, saddles, and tapered areas with additional material as shown and as required for proper drainage of membrane. All joints shall be tightly butted together. If a gap is present, it shall be filled with cut strips of insulation board.
 - 1. The first (bottom) layer of insulation shall consist of 2 ¼" thick polyisocyanurate foam board. Subsequent layers of insulation, shall consist of polyisocyanurate foam board in a thickness required to achieve the specified slopes shown.
 - 2. Cricket valleys shall not be obstructed by any roof penetrations or attachments, including but not limited to, roof top units/curbs, mechanical hoods, plumbing/mechanical vents, walkway pads, etc.
- C. Do not install more insulation in a day that can be covered with membrane before end of day and before start of inclement weather.

SECTION 07 53 00 – ELASTOMERIC MEMBRANE ROOFING

3.05 EPDM ROOF MEMBRANE INSTALLATION:

- A. Comply with the manufacturer's current published technical specifications and details for Adhered EPDM roofing system. All non-standard details must be approved by the membrane manufacturer and the owner prior to use.
- B. Allow the EDPM sheet to relax a minimum of 30 minutes prior to securement. During cold weather application, consult with manufacturer for longer relaxation time.
- C. Flash all walls, and edge/terminations as recommended by the membrane manufacturer.
- D. All other related roofing material such as adhesives, flashing material, boots, sealants, termination bars, fasteners, etc., shall be installed as specified or approved by the membrane manufacturer.
- E. Install roofing system according to Manufacturer's and NRCA recommendations, testing agency listings, local code requirements. Comply with the manufacturer's current published technical specifications and details for the specified EPDM roofing system. In the event of variations in standards, the highest standard will prevail. Comply with the manufacture's cold weather application procedures.

3.06 ROOF DRAINS

- A. Set all existing roof drains at the appropriate elevation to insure proper drainage and no ponding water. Install new and existing drains in accordance with manufacturer's written instructions and NRCA roof drain detail number TS-20. Provide watertight connection to the roof membrane and the existing drainage piping system.
- B. Clamp roof membrane and stripping into roof drain clamping ring. Assure that all bolts are secure. Broken drain bolts or clamping rings shall be removed and replaced with new.
- C. Connect existing overflow roof drains to nearest existing interior drain lines. See drawings for specifications.
- D. Prevent compounds from entering and clogging drains and conductors, and from spilling or migrating onto surfaces of other work. Roof drains will be water tested in the presence of the owner at the completion of the job. Clogged drains will be cleaned at the contractor's expense.

3.07 METAL

- A. Comply with details shown on Drawings and applicable SMACNA, NRCA, and the membrane manufacturer's specifications and details.

3.08 PROTECTION

- A. Protect roofing during remainder of construction period. Repair or replace (as required) deteriorated or defective work to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- B. At end of each day's roofing installation, protect exposed edge of incomplete work. Provide adequate drainage and "tie-off" to prevent water entry into the building or roof system.

SECTION 07 53 00 – ELASTOMERIC MEMBRANE ROOFING

3.09 WALK PADS

- A. Position each pad a minimum of 1” from each other.
- B. Prime the surface of the EPDM roofing sheet.
- C. Remove the adhesive backing paper and press the pad into place.

3.10 CLEAN UP

- A. All trash and waste shall be disposed of in contractor provided receptacle. Location of receptacle as per owner's instructions.
- B. At the end of each day's work, all debris and trash shall be gathered from the site and disposed of to maintain a neat and orderly job site.

3.11 WARRANTY INSPECTION

- A. The warranty inspection will be scheduled by the installer and will include the membrane manufacturer's TECHNICAL (NOT SALES) warranty inspector, the installer's representative, and the owner's representative. This meeting shall not take place without the presence of the owner's representative. The owner will be notified not later than 24 hours prior to the time of the inspection.
- B. A copy of the manufacturers punch list shall be provided to the owner at the completion of the meeting. Final payment will not be made until all punch list items are satisfactorily corrected and a copy of the Warranty provided.

END OF SECTION 07 53 23

SECTION 07 71 13 METAL COPING

PART 1 - GENERAL

1.1 SUMMARY

- A. Work included: Furnishing and installing factory fabricated and finished coping system.
- B. Related work:
 - 1. Section 07 53 23 – EPDM Membrane Roofing.
 - 2. Section 07-92-13 – Joint Sealants

1.2 REFERENCES

- A. Factory Mutual Research Corporation (FMRC), P.O. Box 9102, Norwood, MA 02082, 617-762-4300.
- B. SPRI Sheet Membrane & Component Suppliers to the Commercial Roofing Industry, 175 Highland Ave., Needham, MA 02194, 617-444-0242, fax: 617-444-6111.

1.3 SUBMITTALS

- A. Product Data: Provide manufacturer's product and complete installation data for all materials in this specification.
- B. Shop Drawings: Show profiles, joining method, accessory location, anchorage and flashing details, adjacent construction interface, and dimensions.
- C. Samples: Available upon request; sized to represent material adequately.
- D. Installation Guide: The product manufacturer shall provide a written installation guide.

1.4 QUALITY ASSURANCE

- A. High performance coping shall be CERTIFIED by the manufacturer to meet performance design criteria according to the following test standards:
 - 1. ANSI/SPRI ES-1-98 Test Method RE-3 for Coping: Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems (current edition). The coping system shall be tested simultaneously on horizontal and vertical surfaces and shall exceed horizontal and vertical design wind pressure as calculated in accord with the ANSI/SPRI ES-1-98 Test RE-3. Use the current edition of ANSI/SPRI ES-1 Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems.

~~B. The coping product shall be listed in current Factory Mutual Research Corporation Approval Guide approved for FM 1-75~~

1.5 PRODUCT HANDLING

- A. All material shall arrive in the manufacturer's original sealed, labeled containers.
- B. Store materials in a dry, protected, well-vented area. The contractor shall report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.

SECTION 07 71 13 METAL COPING

- C. Remove protective plastic surface film immediately after installation if applicable.

1.6 SUBSTITUTIONS

- A. Proposals for substitution products shall be accepted only from bidding contractors a minimum of 10 working days before bid due date. The proposed substitution shall meet the performance and quality standards of this specification (see section 1.4).

1.7 JOB CONDITIONS

- A. Verify that other trades with related work are complete before mounting coping covers.
- B. Mounting surfaces shall be straight and secure; substrates shall be of proper width.
- C. Refer to the construction documents, shop drawings and manufacturer's installation instructions.
- D. Coordinate installation with roof membrane manufacturer's installation instructions before starting.
- E. Observe all appropriate OSHA safety guidelines for this work.

1.8 WARRANTY/GUARANTEE

- A. Manufacturer's Standard Warranty: Warranted materials shall be free of defects in material and workmanship for five years after shipment. If, after inspection, the manufacturer agrees that materials are defective, the manufacturer shall, at their option, repair or replace them. For decorative finish warranty, consult manufacturer. Provide a 20-year warranty. to be included in complete system warranty from roof system manufacturer.

PART 2 – PRODUCTS

2.1 MANUFACTURER:

- A. Metal-Era, Inc., 1600 Airport Road, Waukesha, WI 53188
(Anchor-Tite)
Phone: 262-549-6900 Fax: 262-549-6009 Internet address: www.metalera.com
- B. MM Systems Corporation, 50 MM Way, Pendergrass, GA 30567
(Flat Face SLC)
Phone: 706-824-7500 Fax: 706-824-7501 Internet address: www.50mmway.com
- C. Johns Manville, PO Box 5108, Denver, Colorado 80217-5108
(Presto Lock)
Phone: 303.978.2000 Fax: 303.978.3563 Internet Address: www.jm.com
- D. Peterson Roofing, 1005 Tonne Road, Elk Grove Village, IL 60007
(Pac Continuous Cleat Coping)
Phone: 800.722.2523 Fax: 800.722.7150 Internet Address: www.pac-clad.com

SECTION 07 71 13 METAL COPING

2.2 PARAPET COPING SYSTEM

- A. Coping: Metal coping cap with extruded anchor bar and galvanized steel anchor/support cleats for capping any parapet wall. The system shall be maintenance free and does not require exposed fasteners. Joints shall be a butt type with concealed splice plates. Standard model is (ATC) for all sizes.
- B. Performance Characteristics:
 - 1. Coping sections shall expand and contract freely while locked in place on anchor cleats.
 - 2. Coping sections shall lock to extruded aluminum anchor bar and anchor cleats by mechanical pressure from hardened stainless steel springs factory attached to anchor cleats.
 - 3. All splice plates include factory applied dual non-curing sealant strips capable of providing a watertight seal.
 - 4. **Coping shall be factory modified for true radius application.**
- C. Metal: 24 gage galvanized steel with Kynar coatings.
- D. Coping cap: length of 12'-0" (3.65 m), widths to 24" manufactured to job requirements. True radii may be built to template.
- E. Coping vertical outside face to be: 4-1/2", back leg standard to be 3-1/2" nominal.
- F. Concealed splice plates: 8" wide. Finish to match finish of coping cap with factory applied dual non-curing sealant strips.
- G. Extruded Anchor Bar: .100" mill extruded aluminum, pre-punched, 12" wide and installed 4'-0" o.c. Integrated with anchor/support cleat.
- H. Anchor/Support Cleat: 20 ga. prepunched galvanized cleat with stainless steel spring mechanically locked to cleat normally 12" (305 mm) wide @ 6'-0" (1525 mm) on center. Mechanically fastened as indicated and detailed. Integrated with extruded anchor bar.
- I. Fasteners: #9 x 1-1/2" stainless steel fasteners shall be provided by Metal-Era. No exposed fasteners shall be permitted.
- J. Finishes: Shall be pre-coated Kynar 500 selected from manufacturer's standard color list.

2.3 ACCESSORIES

- A. Corners, end caps, pier caps, etc. shall be fabricated by the coping manufacturer.
- B. Welded assembly shall be used to maintain watertight integrity.

PART 3 - EXECUTION

3.1 INSPECTION

- C. Verify that coping installation will not disrupt other trades. Verify that substrate is dry, clean and free of foreign matter. Report and correct defects prior to any installation.

SECTION 07 71 13 METAL COPING

3.2 INSTALLATION

- A. Submit product design drawings for review and approval to Architect before fabrication.
- B. Installing contractor shall check as-built conditions and verify the manufacturer's coping details for accuracy to fit the wall assembly prior to fabrication. The installer shall comply with the coping manufacturer's installation guide when setting copings.
- C. Installer shall use mechanical fasteners with minimum 240# (109 kg) pull out resistance for parapet substrates.

END OF SECTION 07 71 13

PRE-BID Meeting Agenda:

Project Name: CAMPUS REC ROOF &
SKYLIGHT REPLACEMENT
Project Number: C000P005

FP&C Representative: Josh Ward
Location: CAMPUS RECREATION, Room 230D
Date: 3/12/2014 Time: 03:00 P.M.

ATTENDEES:

Please Sign In on Sheet Distributed.

INTRODUCTIONS:

PROJECT OVERVIEW:

- Public Bid opening scheduled for: Tuesday, March 25, 2014 @ 2:00 PM @ 1701 Y St., *see Section 00 21 13 – INSTRUCTIONS TO BIDDERS for requirements*
- Performance & Payment Bond Required for >\$15,000, bid accordingly
- Bid Doct's Available at: A&D Tech Supply in Lincoln & Omaha & Builder's Bureau
- Scope (Manual/Plans Dated: March 1, 2014):
 - *Remove Existing Ballast and 45 mil membrane; add new 60 mil fully adhered to new ½" recovery board, mech. Fastened to 20 ga. metal deck below. Structural Slope, ref: plans for backwater cricket locations*
 - *Remove Existing Fascia / Replace with new throughout*
 - *Main Roof: ~250 Square, Remove and Infill (32) existing skylights*
 - *Lobby Roof: ~30 square, 3 LEVELS*
 - *Mech Rm Roof: Modify Metal Building As Required, Ladder, Handle, Chiller location (addendum #1)*
 - *Note Expansion Joints on Plans – 4 separate buildings at Complex*

PROJECT/CONSTRUCTION HIGHLIGHTS:

- **ALL COMMUNICATION (*Change Orders, Field Decisions, RFI's, Notifications, etc.*) to be channeled through Josh Ward-UNL**
- Construction Schedule *Must be provided to UNL at Pre-Construction Meeting to notify Building Tenants*
- Complete Main Roof, Working North-South as required to coordinate with CREC
May 12-16 for 4 north-most rows of skylight removal/infills
Start roof at Mech. Rm roof
- Building envelope must be maintained during off hours and inclement weather conditions (Roofing Contractor's Responsibility)
- Staging Areas
 - Main Roof: South Lawn, chute @ NE corner to coordinate with ongoing project adjacent*
 - Lobby/Mech Rm. : West of Mech Rm Roof – coordinate demo and deliveries with Athletics OH Door.*
 - Staging Areas Requiring Stored Materials will require 6'-0" high chain link fence with red screening.*
 - Sidewalks and driveways to remain open and protected during adjacent overhead work. Contractor to coordinate deliveries (contractor responsible for protecting and blocking pedestrian traffic)*
- Roof access must be outside of building, *interior building roof access during construction will not be granted.*
- Restrooms will not be offered, *must be provided by contractor.*
- Parking will not be provided, *UNL Contractor Tags can be purchased at UNL Parking Services*

CHANGE MANAGEMENT/ALTERNATES:

-Addendum No. 1 to Follow Pre-Bid:

→Items: 90 MPH coverage in warranty

→Pre-Bid Docts

-Alternates 1-3:

-Alternate #1: Provide 90 mil EPDM membrane, 30 yr Warranty

-Alternate #2: 72 MPH Wind rating, and warranty

-Alternate #3: Deliver Ballast Off-site, dump, leave.

BIDDING SCHEDULE:

| | |
|---|--|
| -Pre-Bid: | <u>3/12/14</u> |
| -Last Day to Ask Questions: | <u>3/14/14 (Friday)</u> |
| -Answer Questions/Issue Final Addendum: | <u>3/18/14 (Tues.)</u> |
| -BID DATE: | <u>Tues. March 25, 2014 @ 2:00 PM</u> |

PROJECTED CONSTRUCTION SCHEDULE:

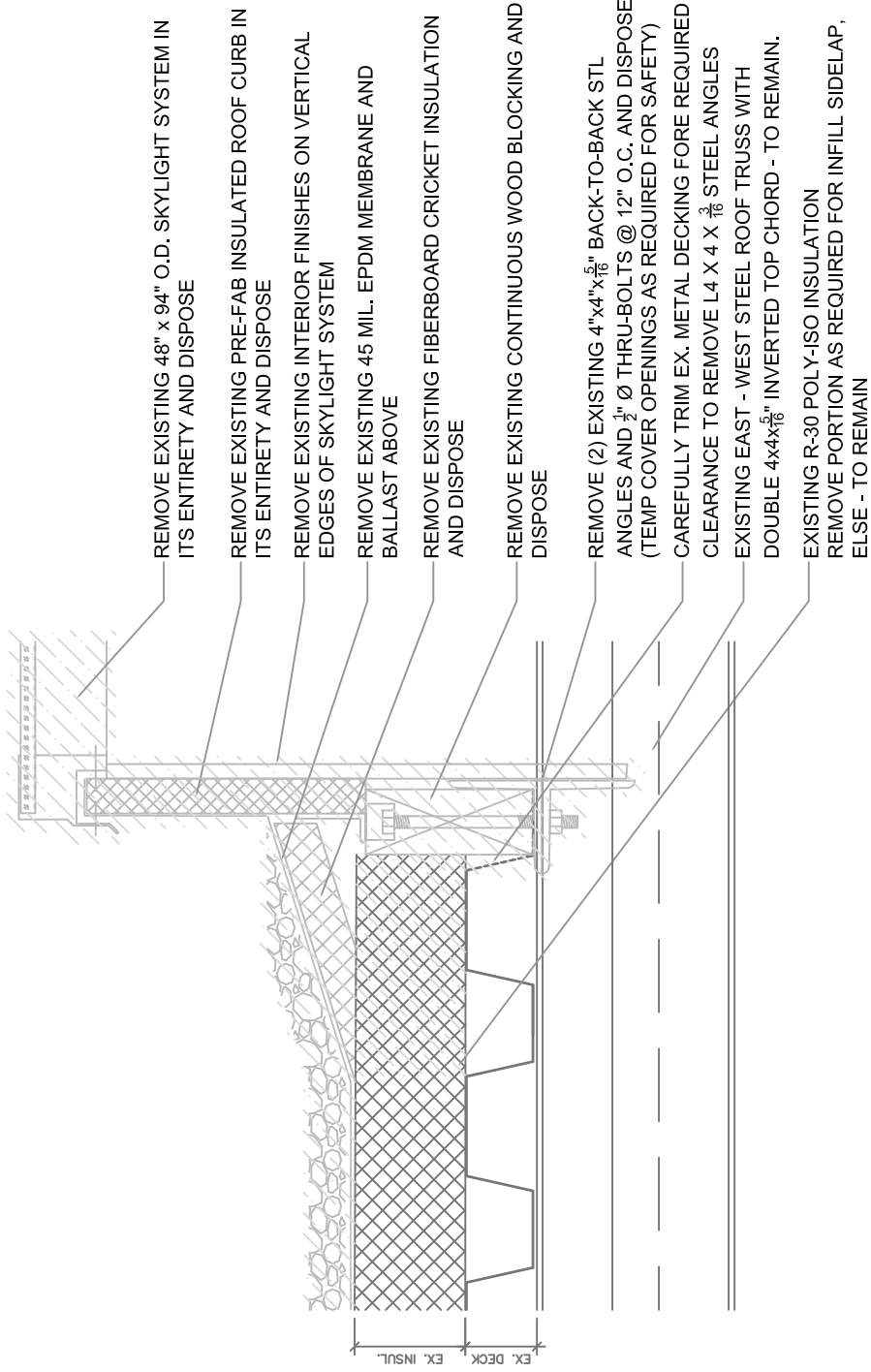
| | |
|--------------------------------|----------------------|
| -Award/Contract: | <u>4/1/14</u> |
| -Shop Drawings/Submittals: | <u>4/7/14</u> |
| -Mobilization/Staging: | <u>4/14/14</u> |
| -Start Construction (Roof F): | <u>4/21/14</u> |
| -CONSTRUCTION DEADLINE: | <u>6/1/14</u> |

QUESTIONS / SITE VISIT: (Email to: jward6@unl.edu on or before Mar.14, 2014)

Please direct questions to me (Josh Ward) @:

PH: (402) 472-4800

Em: jward6@unl.edu



SECT.@ EX. SKYLIGHT (DEMO)

6
A.3

SCALE: 1-1/2" = 1' - 0"