

Addendum #2

Date: May 14, 2015
Project: Memorial Hall Gym Roof Renovation
Contract: FD-14-049

The work herein shall be considered part of the bid documents for the referenced project and carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Acknowledge receipt of addendum on the bid form as indicated.

Clarifications:

1. None

Changes to Specifications:

1. Section

Changes to Drawings:

1. Section T10-01 reissued. Added existing conditions site photo. Revised bid date.
2. Section T10-02 reissued. Add list of unit prices. Add concrete division.
3. Section A10-01 reissued.
 - Revise the Alternates: Base bid description as indicated.
 - Revise the Alternates: Alternate No. 1 description as indicated.
 - Add note to contractor regarding excavation. Add Notes and Details for Wall Demo, Repairs and flashing at the Existing Side Wall.
 - Add Note indicating revised extent of sidewalk demolition and patching.

General Information:

1. Pre-Bid Sign-in Sheet: Please see attached sheet for a list of the attendees at the mandatory pre-bid. **See attached.**
2. Pre-Bid Meeting Minutes: These minutes are now integral to the bidding documents. **See attached.**

Questions and Answers:

1. **Question:**
Answer:

END



DELAWARE STATE UNIVERSITY

OFFICE OF FACILITIES MANAGEMENT

1200 N. DuPont Highway
Dover, Delaware 19901-2277

DSU Main Campus
Memorial Hall Roof Renovation
Contract: FD-15-049
Mandatory Pre-bid Meeting
May 11, 2015 @ 1:00 PM

MEETING MINUTES

Meeting Location: Delaware State University
FD-15-049 – Memorial Hall Roof Renovation
Dover, Delaware

Meeting Attendees:
(Refer to attached Sign-In Sheet)

1. **Attendee Sign-In:**
 - a. Sign-in sheet was circulated. All attendees are signed in. Sign-in sheet will be distributed as part of Addendum #2.
2. **Responsible Parties:**
 - a. DSU: Jessica Wilson, Director of Purchasing
 - b. DSU: J.D. Bartlett, Director of Planning and Construction
 - c. DSU: Natalie Glasco, Construction Project Manager
 - d. Architect of Record: Fearn Clendaniel Architects, Ben Garvin: Project Architect
3. **Explanation of the project:**
 - a. As outlined in the Bid Advertisement. All documents can be obtained through the state bidding system at http://bids.delaware.gov/bids_detail.asp?i=3078&DOT=N. Please contact ConstructionBid@desu.edu with any questions or concerns with obtaining bid documents.
 - b. Construction Schedule
 1. Earliest Start of Construction Date – June 8, 2015
 2. Substantial Completion Date – August 7, 2015
4. **Project Requirements:**
 - a. This project shall comply with all applicable State bid laws including, but is not limited to requirements for Bid Bonds, Payment Bonds, and Performance Bonds.
 - b. The State of Delaware Prevailing Wage Regulations apply to this project. Refer to the project manual for further information.
5. **Bid Form Review:**
 - a. The Bid Form was briefly outlined. It is essential that bid be submitted in its entirety including required forms & attachments, as indicated in the specifications. Submitted bid shall be lump sum. Submitted bid shall include pricing for each alternate.
 - b. Subcontractors List section of the bid form shall not be left blank for any reason. Noncompliance may result in a rejection of submitted bid. If bidding contractor is doing the work in the place of a subcontractor, indicate accordingly on said form. The following subcontractor categories have been established and shall be reflected in each bid:
6. **Bid Submission:**

RE: FD-15-049 – Memorial Hall Gym Roof Renovation
Mandatory Pre-Bid Meeting Minutes
May 14, 2015

- a. Bids will be accepted until **May 20, 2015, 3:00 PM**, at the Administration Building in Room 321 of the Delaware State University, Dover Campus. Bids will be publically opened and read immediately.
7. **Document Interpretations or Questions:**
 - a. All bidding related questions should be submitted in writing to ConstructionBid@desu.edu. Questions, answers to questions, and clarifications will be provided via addendum.
 - b. Submit all requests and questions, in writing via email, no later than **May 15, 2015, 4:00 PM**.
8. **Addenda**
 - a. The final addendum will be issued on, or before, **May 18, 2015**.
9. **Question and Answers**
 - a. **Question:**
Answer:

These notes represent the author's understanding of the issues discussed. Please contact the author with any discrepancies no later than three calendar days after receipt of these minutes. Otherwise, the contents of these minutes will be deemed accepted by all recipients.

/jdb

Enclosure(s): Pre-bid Sign-in Sheet

cc: All Attendees

Facilities Management File: N:\Planning and Construction\Projects\Memorial Hall Gym\FD-14-049 Gym Roof Renovation\03-Bidding\Pre-bid Meeting

Attendee	Company Information	Attach Business Card
Printed Name: <u>C.C. WARR</u> Signature: <u>[Signature]</u> Primary Contact: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Primary Contact: <u>Petz</u>	Company: <u>Kent Construction Co.</u> Email: <u>Estimator2@kentconstructionco.com</u> Phone: <u>302 653 6469 Fax: 653 4044</u> Email Bid Updates: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Printed Name: <u>Zac Gregory</u> Signature: <u>[Signature]</u> Primary Contact: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Primary Contact: <u>302 454 8551</u>	Company: <u>C.T.A. Roofing + Waterproofing</u> Email: <u>Mark@ctaroofing.com</u> Phone: <u>302 454 8551</u> Email Bid Updates: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Printed Name: _____ Signature: _____ Primary Contact: <input type="checkbox"/> YES <input type="checkbox"/> NO Primary Contact: _____	Company: _____ Email: _____ Phone: _____ Email Bid Updates: <input type="checkbox"/> YES <input type="checkbox"/> NO	

Attendee	Company Information	Attach Business Card
<p>Printed Name: <u>Stephanie Blecher</u></p> <p>Signature: <u><i>Stephanie Blecher</i></u></p> <p>Primary Contact: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Primary Contact: <u>Alan</u></p>	<p>Company: <u>Wilkinson Roofing</u></p> <p>Email: <u>Stephanie@Wilkinsonroofing.com</u></p> <p>Phone: <u>302-998-0176</u></p> <p>Email Bid Updates: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	
<p>Printed Name: <u>Buck High</u></p> <p>Signature: <u><i>Buck High</i></u></p> <p>Primary Contact: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Primary Contact: _____</p>	<p>Company: <u>TRI-STATE ROOFERS</u></p> <p>Email: <u>bhigh01@comcast.NET</u></p> <p>Phone: <u>302-995-7027</u> ^{CELL #} <u>218-2713</u></p> <p>Email Bid Updates: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	
<p>Printed Name: _____</p> <p>Signature: _____</p> <p>Primary Contact: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Primary Contact: _____</p>	<p>Company: _____</p> <p>Email: _____</p> <p>Phone: _____</p> <p>Email Bid Updates: <input type="checkbox"/> YES <input type="checkbox"/> NO</p>	



BID FORM

Project: FD-14-049 – Memorial Hall Gym Roof Renovation

Location: Delaware State University
Memorial Hall, Main Campus
1200 N. DuPont Hwy.
Dover, DE.

For Bids Due: May 20, 2015 @ 3:00 PM EST

To: Delaware State University
Administration Bldg,
Purchasing, Room 321
1200 N. DuPont Highway
Dover, DE 19901-2277
Attn: Jessica Wilson
Director of Purchasing

Name of Bidder: _____

Delaware Business License No.: _____ **Taxpayer ID No.:** _____
(A copy of Bidder’s Delaware Business License must be attached to this form.)

(Other License Nos.): _____

Phone No.: () _____ - _____ **Fax No.:** () _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (Written Out).

(\$ _____) (Figures).

[This price includes all allowances as documented within the project manual.]

A. ALTERNATES (Note: project is subject to prevailing wages)

1. Alternates: Alternate prices conform to applicable project specification section. Refer to the drawing specifications for a complete description of the following Alternates. An “ADD” or “DEDUCT” amount is indicated by the crossing out the part that does not apply.

a. **Alternate #1:** ADD / DEDUCT

(1) Downspouts to boots & piping on North/ East side of building.

- _____ (Figures).
- _____ (Written Out).

B. UNIT PRICES

1. Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

	<u>ADD</u>	<u>DEDUCT</u>
UNIT PRICE No. 1: <u>Unit of Measurement: Board Feet</u> \$ _____ \$ _____		
<u>Replacement of existing damaged or deteriorated wood blocking with new pressure preservative treated wood blocking to match original dimensions.</u>		

UNIT PRICE No. 2: <u>Unit of Measurement: Square Feet</u> \$ _____ \$ _____		
<u>Replacement of existing damaged or deteriorated metal flashing or trim with new trim to match original dimensions.</u>		

UNIT PRICE No. 3: <u>Unit of Measurement: Square Feet</u> \$ _____ \$ _____		
<u>Additional quantity of reinforced elastomeric coating system beyond area indicated on drawings.</u>		

C. WORK SCHEDULE

1. We understand that this contract is governed by liquidated damages and that submission of this bid is acceptance of the proposed contract completion date. Our proposed detailed project schedule shows more fully the sequence of activities necessary to meet the specified schedule. The project schedule is a required attachment of a complete bid and failure to submit a viable schedule will be a justifiable reason to deem the bid as incomplete.

2. I/We can begin work _____ calendar days after notification of award and will require **62** calendar days thereafter to complete the work. Work on the project will begin _____ calendar days after Letter of Intent.

3. Alternative Work Hours

Work during “regular hours” at this site is being performed on a single shift, eight hours per day, 7:30 AM to 4:30 PM, and five days per week, Monday through Friday. To meet the schedule established on the basis of Item 1 above, our proposed work hours will be _____ hours per day, _____ AM to _____ PM, and _____ days per week, _____ through _____ the cost of which is reflected in our lump sum price. Our lump sum price also includes any mandatory off-hours work required per special conditions.

D. SITE SUPERINTENDANT

We propose to use _____ as our site superintendent. A resume of his/her qualifications is attached.

We understand that DSU reserves the right to interview him/her prior to contract award/prior to start of work and to reject him/her if not considered acceptable. If rejected, we will propose alternate personnel for the position who will be subject to the same review and acceptance procedure, at no increase in our lump sum proposal.

We also understand DSU reserves the right to reject our bid if we are unable to provide a site supervisor acceptable to DSU within thirty (30) calendar days after submission of this bid.

E. REMARKS

1. I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.
2. This bid shall remain valid and cannot be withdrawn for thirty (30) days from the date of opening of bids (60 days for School Districts and Department of Education), and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid.
3. The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.
4. This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.
5. Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all the work within _____ calendar days of the Notice to Proceed.
6. Our Bid Price(s) are firm based on contract award within thirty (30) calendar days of the date of submittal of this bid.
7. I/We understand that we will not be compensated at a later date for claimed additional costs based on any information received during the bid period, but which is not identified in our proposal and subsequently accepted in writing by DSU.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)

Date: _____

ATTACHMENTS

- Sub-Contractor List
- Non-Collusion Statement
- Bid Security
- Construction Schedule
- Resume of Site Superintendent
- (Others as Required by Project Manuals)

END OF SECTION 00 41 13

STATE OF DELAWARE
OFFICE OF MANAGEMENT AND BUDGET

BID BOND

TO ACCOMPANY PROPOSAL
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: _____
_____ of _____ in the County of _____
and State of _____ as **Principal**, and _____
_____ of _____ in the County of _____ and State of _____
as **Surety**, legally authorized to do business in the State of Delaware (“**State**”), are held and firmly unto the **State**
in the sum of _____ Dollars (\$_____),
or _____ percent not to exceed _____
_____ Dollars (\$_____) of amount of bid on Contract No. _____, to be
paid to the **State** for the use and benefit of _____ (*insert State agency
name*) for which payment well and truly to be made, we do bind ourselves, our and each of our heirs, executors,
administrators, and successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bonded **Principal** who has
submitted to the _____ (*insert State agency name*) a certain proposal to
enter into this contract for the furnishing of certain material and/or services within the **State**, shall be awarded this
Contract, and if said **Principal** shall well and truly enter into and execute this Contract as may be required by the
terms of this Contract and approved by the _____ (*insert State
agency name*) this Contract to be entered into within twenty days after the date of official notice of the award
thereof in accordance with the terms of said proposal, then this obligation shall be void or else to be and remain in
full force and virtue.

Sealed with _____ seal and dated this _____ day of _____ in the year of our Lord two
thousand and _____ (20____).

SEALED, AND DELIVERED IN THE
Presence of

Name of Bidder (Organization)

Corporate
Seal

By:

Authorized Signature

Attest _____

Title

Name of Surety

Witness: _____

By:

Title

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor **must be listed for each category** where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the *Owner*, **it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.**

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>	<u>Subcontractors tax payer ID # or Delaware Business license #</u>
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date *(to the Office of Management and Budget, Division of Facilities Management)*.

All the terms and conditions of *(Project or Contract Number)* have been thoroughly examined and are understood.

NAME OF BIDDER: _____

**AUTHORIZED REPRESENTATIVE
(TYPED):** _____

**AUTHORIZED REPRESENTATIVE
(SIGNATURE):** _____

TITLE: _____

ADDRESS OF BIDDER: _____

E-MAIL: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____. NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

Delaware State University

MEMORIAL HALL

ROOF RENOVATIONS

TABLE OF CONTENTS

T10-01 TITLE SHEET
 T10-02 SPECIFICATION SHEET

ARCHITECTURAL

A10-01 ROOF PLAN, NOTES, AND DETAILS

ISSUED FOR BID / CONSTRUCTION

4/8/2015



1 REFERENCE IMAGE
 SCALE: NONE



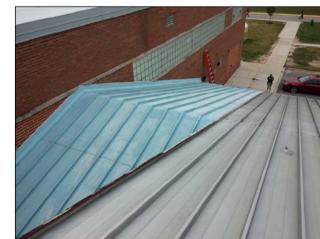
2 REFERENCE IMAGE
 SCALE: NONE



3 REFERENCE IMAGE
 SCALE: NONE



10 REFERENCE IMAGE
 SCALE: NONE



11 REFERENCE IMAGE
 SCALE: NONE



12 REFERENCE IMAGE
 SCALE: NONE



4 REFERENCE IMAGE
 SCALE: NONE



5 REFERENCE IMAGE
 SCALE: NONE



6 REFERENCE IMAGE
 SCALE: NONE



1 REFERENCE IMAGE
 SCALE: NONE

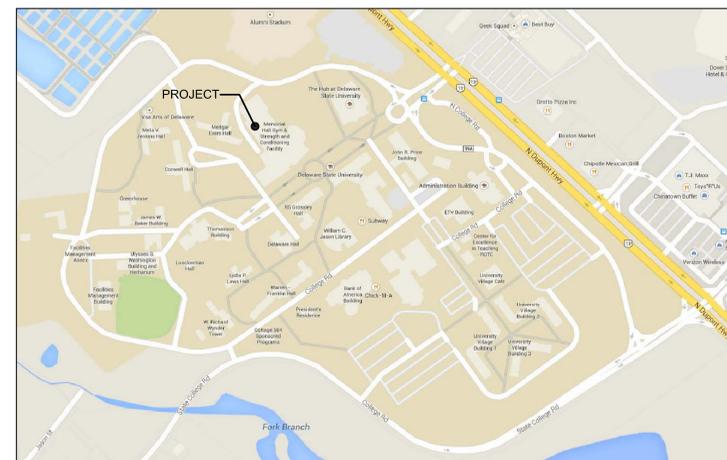


2 REFERENCE IMAGE
 SCALE: NONE



3 REFERENCE IMAGE
 SCALE: NONE

SITE MAP - DELAWARE STATE UNIVERSITY CAMPUS



CONSULTANTS:

THIS DRAWING AND THE DESIGN FEATURES REPRESENTED ARE PROPRIETARY TO FEARN-GLENDANIEL ARCHITECTS, INC. AND SHALL NOT BE REPRODUCED, ALTERED OR COPIED WITHOUT WRITTEN PERMISSION. © FEARN-GLENDANIEL ARCHITECTS, INC.

ISSUE DATES:
 ISSUED FOR BID / CONSTRUCTION 4/8/2015
 ADDENDUM 2 5/11/2015

Fearn Glendaniel Architects, Inc.
 6 Larch Avenue • Suite 398 • Wilmington, Delaware 19804
 Ph. 302-998-7615 • Fax. 302-998-7685
 www.fcarchitects.net

PROJECT:
DELAWARE STATE UNIVERSITY
MEMORIAL HALL
 1200 NORTH DUPONT HWY
 DOVER, DE 19901
ROOF RENOVATIONS

DRAWING TITLE:
COVER SHEET AND REFERENCE IMAGES
 DWN. BY: CHK. BY: PROJECT NUMBER: 13101
 DATE: 04-08-2015 DRAWING NUMBER:
 SCALE: AS NOTED **T10-01**

DIVISION 1

GENERAL

AIA DOCUMENT A201, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, 2007 EDITION, ARE HEREBY INCORPORATED INTO THE CONTRACT DOCUMENTS AS IF COMPLETELY REPRODUCED HEREIN, EXCEPT AS SPECIFICALLY MODIFIED BY THE CONTRACT DOCUMENTS.

ALL WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES, APPLICABLE LAWS AND REGULATIONS, AND ALL APPLICABLE REQUIREMENTS OF REGULATORY AGENCIES. IF THERE IS CONFLICT AMONG THE DRAWINGS, SPECIFICATIONS, OTHER CONTRACT DOCUMENTS, CODES OR REGULATIONS, THE STRICTEST STANDARDS SHALL APPLY. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF THERE IS SUCH A CONFLICT WITH THE CONTRACT DOCUMENTS.

ITEMS OF WORK INDICATED ON THE DRAWINGS, BUT NOT SPECIFIED, AND ITEMS OF WORK SPECIFIED, BUT NOT SHOWN ON THE DRAWINGS, SHALL BE CONSIDERED REQUIRED AS IF INDICATED IN BOTH. DRAWINGS ARE INTENDED TO SHOW GENERAL ARRANGEMENT, DESIGN, AND EXTENT OF WORK, AND ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS OR TO SERVE AS SHOP DRAWINGS.

VERIFY ALL PROJECT CONDITIONS, DIMENSIONS, AND DETAILS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES IN THE DOCUMENTS FOR CORRECTION BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

ALL WORK SHALL BE PERFORMED BY SKILLED MECHANICS EXPERIENCED IN THEIR RESPECTIVE TRADES. INSTALL ITEMS IN ACCURATE LOCATION, PLUMB, LEVEL, SQUARE, PARALLEL, STRAIGHT, FLUSH, IN PLANE LINE, TRUE TO SHAPE, AND NEAT. CHECK THE WORK OF EACH TRADE FOR SOUNDNESS OF CONSTRUCTION, LOCATION, WORKMANSHIP AND OTHER SUITABILITY, AND PROCEED ONLY AFTER ALL IMPERFECTIONS HAVE BEEN ELIMINATED.

AS WORK PROGRESSES, KEEP THE PROJECT SITE FREE FROM ACCUMULATION OF WASTE MATERIALS, DEBRIS, AND RUBBISH. AT THE COMPLETION OF THE PROJECT, REMOVE FROM THE BUILDING AND SURROUNDING AREA ALL WASTE MATERIALS, DEBRIS, EQUIPMENT, TOOLS, SCAFFOLDING. SURPLUS MATERIALS NOT OTHERWISE INDICATED TO BE RETAINED BY THE OWNER SHALL ALSO BE REMOVED FROM THE SITE.

MODIFICATION PROCEDURES

OWNER-INITIATED CHANGE ORDER PROPOSAL REQUESTS: THE ARCHITECT WILL ISSUE A DESCRIPTION OF THE PROPOSED CHANGES IN THE WORK THAT REQUIRE AN ADJUSTMENT IN THE CONTRACT SUM OR TIME. THE DESCRIPTION MAY INCLUDE SUPPLEMENTAL OR REVISED DRAWINGS OR SPECIFICATIONS. PROPOSAL REQUESTS ARE FOR INFORMATION ONLY AND ARE NOT AN INSTRUCTION TO STOP WORK, OR TO EXECUTE THE PROPOSED CHANGE. WITHIN 14 CALENDAR DAYS, SUBMIT AN THE COST NECESSARY TO EXECUTE THE CHANGE FOR THE OWNER'S REVIEW. INCLUDE AN ITEMIZED LIST OF PRODUCTS REQUIRED AND UNITS COSTS, ALONG WITH ANY ADDITIONAL COSTS INCLUDING MARKUPS AND OVERHEAD. INDICATE THE EFFECT ON THE CONTRACT SUM AND THE CONTRACT TIME.

CONTRACTOR-INITIATED PROPOSALS: WHEN UNFORESEEN CONDITIONS REQUIRE MODIFICATIONS, THE CONTRACTOR MAY SUBMIT A REQUEST FOR A CHANGE TO THE OWNER AND ARCHITECT. DESCRIBE THE PROPOSED CHANGE. INDICATE THE REASONS FOR THE CHANGE AND THE EFFECT OF THE CHANGE ON THE CONTRACT SUM AND THE CONTRACT TIME. INCLUDE AN ITEMIZED LIST OF THE PRODUCTS REQUIRED AND UNIT COSTS, ALONG WITH ANY ADDITIONAL COSTS INCLUDING MARKUPS AND OVERHEAD.

COORDINATION

COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN THE VARIOUS TRADES OF THE WORK TO ASSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. COORDINATE CONSTRUCTION OPERATIONS OF DIFFERENT TRADES THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.

SCHEDULE CONSTRUCTION OPERATIONS IN THE SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON THE INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION.

MAKE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.

INSPECTION OF CONDITIONS: REQUIRE THE INSTALLER OF EACH MAJOR COMPONENT TO INSPECT BOTH THE SUBSTRATE AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN AN ACCEPTABLE MANNER.

COORDINATE TEMPORARY ENCLOSURES WITH REQUIRED INSPECTIONS AND TESTS TO MINIMIZE THE NECESSITY OF UNCOVERING COMPLETED CONSTRUCTION FOR THAT PURPOSE.

SUBMITTALS

COORDINATE SUBMITTAL PREPARATION WITH CONSTRUCTION, FABRICATION, AND OTHER SUBMITTALS, AND ACTIVITIES THAT REQUIRE SEQUENTIAL OPERATIONS. TRANSMIT IN ADVANCE OF CONSTRUCTION OPERATIONS TO AVOID DELAY. SUBMITTALS SHALL BE PROVIDED FOR ALL WORK OF THE PROJECT.

PROCESSING: ALLOW (7) CALENDAR DAYS FOR REVIEW. ALLOW MORE TIME IF THE ARCHITECT MUST DELAY PROCESSING TO PERMIT COORDINATION. THE ARCHITECT RESERVES THE RIGHT TO WITHHOLD ACTION ON A SUBMITTAL REQUIRING COORDINATION UNTIL RELATED SUBMITTALS ARE RECEIVED.

SHOP DRAWINGS: SUBMIT NEWLY PREPARED INFORMATION DRAWN TO SCALE. INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. DO NOT REPRODUCE THE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION. SUBMIT ONE CORRECTIBLE, REPRODUCIBLE PRINT AND ONE BLUE OR BLACK LINE PRINT ON SHEETS AT LEAST 8-1/2 INCHES BY 11 INCHES, BUT NO LARGER THAN 30 INCHES BY 42 INCHES. THE ARCHITECT WILL RETURN THE REPRODUCIBLE PRINT.

SAMPLES: SUBMIT FULL-SIZE SAMPLES CURED AND FINISHED AS SPECIFIED, AND IDENTICAL WITH THE MATERIAL PROPOSED. MOUNT THE SAMPLES TO FACILITATE REVIEW OF QUALITIES. SUBMIT SAMPLES FOR REVIEW OF SIZE, KIND, COLOR, PATTERN, AND TEXTURE, FOR A CHECK OF THESE CHARACTERISTICS, AND FOR A COMPARISON OF THESE CHARACTERISTICS BETWEEN THE FINAL SUBMITTAL AND THE ACTUAL COMPONENT AS DELIVERED AND INSTALLED.

PRODUCT DATA: COLLECT PRODUCT DATA INTO A SINGLE SUBMITTAL FOR EACH ELEMENT OF CONSTRUCTION. MARK EACH COPY TO SHOW APPLICABLE CHANGES AND OPTIONS. WHERE PRODUCT DATA INCLUDES INFORMATION ON SEVERAL PRODUCTS, MARK COPIES TO INDICATE APPLICABLE INFORMATION. SUBMIT 4 COPIES. THE ARCHITECT WILL RETAIN ONE AND RETURN THE OTHERS MARKED WITH ACTION TAKEN.

MATERIALS AND EQUIPMENT

SOURCE LIMITATIONS: TO THE FULLEST EXTENT POSSIBLE, PROVIDE PRODUCTS OF THE SAME KIND FROM A SINGLE SOURCE.

DELIVER, STORE AND HANDLE PRODUCTS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT. STORE PRODUCTS SUBJECT TO DAMAGE BY THE ELEMENTS ABOVE GROUND, UNDER COVER IN A WEATHER TIGHT ENCLOSURE, WITH VENTILATION ADEQUATE TO PREVENT CONDENSATION. MAINTAIN TEMPERATURE AND HUMIDITY WITHIN THE RANGE REQUIRED BY THE MANUFACTURER'S INSTRUCTIONS.

PROVIDE WEATHER-RESISTANT AND DUST PROOF TEMPORARY ENCLOSURES AROUND CONSTRUCTION OPERATIONS.

PROPRIETARY SPECIFICATION REQUIREMENTS: WHERE SPECIFICATIONS NAME ONLY A SINGLE PRODUCT OR MANUFACTURER, PROVIDE THE PRODUCT SPECIFIED OR SUBMIT SUBSTITUTION REQUEST WITH DATA FOR ARCHITECT DETERMINATION EQUAL.

SEMI-PROPRIETARY SPECIFICATION REQUIREMENTS: WHERE SPECIFICATIONS NAME 2 OR MORE PRODUCTS OR MANUFACTURERS, PROVIDE ONE OF THE PRODUCTS INDICATED.

DESCRIPTIVE SPECIFICATION REQUIREMENTS: WHERE SPECIFICATION DESCRIBE A PRODUCT OR ASSEMBLY, LISTING EXACT CHARACTERISTICS REQUIRED, WITH OR WITHOUT THE USE OF A BRAND NAME PROVIDE A PRODUCT OR ASSEMBLY THAT PROVIDES THE CHARACTERISTICS AND OTHERWISE COMPLIES WITH THE CONTRACT REQUIREMENTS.

SUBSTITUTIONS

MANUFACTURERS AND PRODUCTS INDICATED ARE CONSIDERED STANDARD OF DESIGN AND PERFORMANCE. ALTERNATE PRODUCTS BY APPROVED MANUFACTURERS DEEMED EQUIVALENT BY THE ARCHITECT WILL BE ACCEPTABLE. THE ARCHITECT WILL CONSIDER WRITTEN REQUESTS FOR SUBSTITUTIONS RECEIVED NOT LESS THAN 10 DAYS PRIOR TO END OF THE BIDDING PERIOD. ALTERNATES SUBMITTED AFTER THIS TIME CANNOT BE REVIEWED. PROVIDE THE FOLLOWING DOCUMENTATION:

1. COMPLETE PRODUCT INFORMATION AND OTHER DATA
2. COORDINATION INFORMATION, INCLUDING A LIST OF CHANGES NECESSARY TO ACCOMMODATE THE SUBSTITUTION
3. COMPARISON OF THE SUBSTITUTION WITH THE WORK SPECIFIED, INCLUDING PERFORMANCE AND VISUAL EFFECT
4. SAMPLES, WHERE APPLICABLE OR REQUESTED
5. THE EFFECT OF THE SUBSTITUTION ON THE CONSTRUCTION SCHEDULE AND CONTRACT TIME
6. COST INFORMATION, INCLUDING ANY PROJECTED NET CHANGE TO THE CONTRACT SUM
7. CERTIFICATION THAT THE SUBSTITUTION CONFORMS TO THE CONTRACT DOCUMENTS AND IS APPROPRIATE FOR THE APPLICATIONS INDICATED

ALLOWANCES

CERTAIN ITEMS ARE SPECIFIED IN THE CONTRACT DOCUMENTS BY ALLOWANCES. ALLOWANCES HAVE BEEN ESTABLISHED IN LIEU OF ADDITIONAL REQUIREMENTS AND TO DEFER SELECTION OF ACTUAL MATERIALS AND EQUIPMENT TO A LATER DATE WHEN ADDITIONAL INFORMATION IS AVAILABLE FOR EVALUATION. IF NECESSARY, ADDITIONAL REQUIREMENTS WILL BE ISSUED BY CHANGE ORDER.

TYPE OF ALLOWANCES: LUMP SUM

SUBMITTAL:

1. SUBMIT PROPOSALS FOR PURCHASE OF PRODUCTS OR SYSTEMS INCLUDED IN ALLOWANCES, IN THE FORM SPECIFIED FOR CHANGE ORDERS.
2. SUBMIT INVOICES OR DELIVERY SLIPS TO SHOW ACTUAL QUANTITIES OF MATERIALS DELIVERED TO THE SITE FOR USE IN FULFILLMENT OF EACH ALLOWANCE.
3. COORDINATE AND PROCESS SUBMITTALS FOR ALLOWANCE ITEMS IN SAME MANNER AS FOR OTHER PORTIONS OF THE WORK.

LUMP SUM COST ALLOWANCES SHALL INCLUDE COST TO CONTRACTOR OF SPECIFIC PRODUCTS AND MATERIALS SELECTED BY ARCHITECT UNDER ALLOWANCE AND SHALL INCLUDE TAXES, FREIGHT, AND DELIVERY TO PROJECT SITE.

UNUSED MATERIALS: RETURN UNUSED MATERIALS PURCHASED UNDER AN ALLOWANCE TO MANUFACTURER OR SUPPLIER FOR CREDIT TO OWNER. AFTER INSTALLATION HAS BEEN COMPLETED AND ACCEPTED.

PREPARATION: COORDINATE MATERIALS AND THEIR INSTALLATION FOR EACH ALLOWANCE WITH RELATED MATERIALS AND INSTALLATIONS TO ENSURE THAT EACH ALLOWANCE ITEM IS COMPLETELY INTEGRATED AND INTERFACED WITH RELATED WORK.

SCHEDULE OF ALLOWANCES:

NONE IDENTIFIED AT THIS TIME

UNIT PRICES

A UNIT PRICE IS AN AMOUNT PROPOSED BY BIDDERS, STATED ON THE BID FORM, AS A PRICE PER UNIT OF MEASUREMENT FOR MATERIALS OR SERVICES ADDED TO OR DEDUCTED FROM THE CONTRACT SUM BY APPROPRIATE MODIFICATION, IF ESTIMATED QUANTITIES OF WORK REQUIRED BY THE CONTRACT DOCUMENTS ARE INCREASED OR DECREASED.

UNIT PRICES INCLUDE ALL NECESSARY MATERIAL, PLUS COST FOR DELIVERY, INSTALLATION, INSURANCE, APPLICABLE TAXES, OVERHEAD, AND PROFIT.

OWNER RESERVES THE RIGHT TO REJECT CONTRACTOR'S MEASUREMENT OF WORK-IN-PLACE THAT INVOLVES USE OF ESTABLISHED UNIT PRICES AND TO HAVE THIS WORK MEASURED, AT OWNER'S EXPENSE, BY AN INDEPENDENT SURVEYOR ACCEPTABLE TO CONTRACTOR.

LIST OF UNIT PRICES:

UNIT PRICE NO. 1 ADD/ DEDUCT
DESCRIPTION: REPLACEMENT OF EXISTING DAMAGED OR DETERIORATED WOOD BLOCKING WITH NEW PRESSURE PRESERVATIVE TREATED WOOD BLOCKING TO MATCH ORIGINAL DIMENSIONS. ALL BLOCKING INDICATED ON DRAWINGS TO BE REPLACED SHALL BE INCLUDED IN BASE BID.
UNIT OF MEASUREMENT: BOARD FEET

UNIT PRICE NO. 2 ADD/ DEDUCT
DESCRIPTION: REPLACEMENT OF EXISTING DAMAGED OR DETERIORATED METAL FLASHING OR TRIM WITH NEW TRIM TO MATCH ORIGINAL DIMENSIONS. ALL TRIM INDICATED ON DRAWINGS TO BE REPLACED SHALL BE INCLUDED IN BASE BID.
UNIT OF MEASUREMENT: SQUARE FEET

UNIT PRICE NO. 3 ADD/ DEDUCT
DESCRIPTION: ADDITIONAL QUANTITY OF REINFORCED ELASTOMERIC COATING SYSTEM BEYOND AREA INDICATED ON DRAWINGS.
UNIT OF MEASUREMENT: SQUARE FEET

ALTERNATES

AN AMOUNT PROPOSED BY BIDDERS AND STATED ON THE BID FORM FOR CERTAIN WORK DEFINED IN THE BIDDING REQUIREMENTS THAT MAY BE ADDED TO OR DEDUCTED FROM THE BASE BID AMOUNT IF OWNER DECIDES TO ACCEPT A CORRESPONDING CHANGE EITHER IN THE AMOUNT OF CONSTRUCTION TO BE COMPLETED OR IN THE PRODUCTS, MATERIALS, EQUIPMENT, SYSTEMS, OR INSTALLATION METHODS DESCRIBED IN THE CONTRACT DOCUMENTS.

THE COST OR CREDIT FOR EACH ALTERNATE IS THE NET ADDITION TO OR DEDUCTION FROM THE CONTRACT SUM TO INCORPORATE ALTERNATE INTO THE WORK. NO OTHER ADJUSTMENTS ARE MADE TO THE CONTRACT SUM.

COORDINATION: MODIFY OR ADJUST AFFECTED ADJACENT WORK AS NECESSARY TO COMPLETELY INTEGRATE WORK OF THE ALTERNATE INTO PROJECT.

NOTIFICATION: IMMEDIATELY FOLLOWING AWARD OF THE CONTRACT, NOTIFY EACH PARTY INVOLVED, IN WRITING, OF THE STATUS OF EACH ALTERNATE. INDICATE IF ALTERNATES HAVE BEEN ACCEPTED, REJECTED, OR DEFERRED FOR LATER CONSIDERATION. INCLUDE A COMPLETE DESCRIPTION OF NEGOTIATED MODIFICATIONS TO ALTERNATES. EXECUTE ACCEPTED ALTERNATES UNDER THE SAME CONDITIONS AS OTHER WORK OF THE CONTRACT.

SCHEDULE OF ALTERNATES

ALTERNATE - DOWNSPOUTS TO BOOTS & PIPING ON NORTH/ EAST SIDE OF BUILDING.

BASE BID - DOWNSPOUTS TO SPLASHBLOCK ON NORTH/ EAST SIDE OF BUILDING.

WARRANTIES

WARRANTY WORK AGAINST DEFECTIVE MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. REMEDY ANY AND ALL DEFECTS IN THE WORK UPON WRITTEN NOTIFICATION FROM THE OWNER. SUBMIT A WRITTEN WARRANTY TO THE OWNER THAT ALL MATERIALS AND WORKMANSHIP SHALL BE FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION. THERE WILL BE NO ADDITIONAL COST TO REPAIR OR REPLACE ANY SUCH WORK THAT IS FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD.

CUTTING AND PATCHING

STRUCTURAL ELEMENTS: DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATIO. STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. WALLS AND PARTITIONS
2. LINTEL AND HEADERS IN WALLS AND PARTITIONS
3. FLOORS ABOVE GRADE
4. ROOF DECK OR STRUCTURE
5. BRACING AND SHORING
6. GUY WIRES AND STRUTS

OPERATIONAL ELEMENTS: DO NOT CUT AND PATCH OPERATING ELEMENTS AND RELATED COMPONENTS IN A MANNER THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY.

MISCELLANEOUS ELEMENTS: DO NOT CUT AND PATCH MISCELLANEOUS ELEMENTS OR RELATED COMPONENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY, THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED, OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY.

CUTTING AND PATCHING CONFERENCE: BEFORE PROCEEDING, MEET AT PROJECT SITE WITH PARTIES INVOLVED IN CUTTING AND PATCHING, INCLUDING MECHANICAL AND ELECTRICAL TRADES. REVIEW AREAS OF POTENTIAL INTERFERENCE AND CONFLICT. COORDINATE PROCEDURES AND RESOLVE POTENTIAL CONFLICTS BEFORE PROCEEDING.

IN-PLACE MATERIALS: USE MATERIALS IDENTICAL TO IN-PLACE MATERIALS. FOR EXPOSED SURFACES, USE MATERIALS THAT VISUALLY MATCH IN-PLACE ADJACENT SURFACES TO THE FULLEST EXTENT POSSIBLE.

PROTECT IN-PLACE CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE. PROVIDE PROTECTION FROM ADVERSE WEATHER CONDITIONS FOR PORTIONS OF PROJECT THAT MIGHT BE EXPOSED DURING CUTTING AND PATCHING OPERATIONS.

ADJOINING AREAS: AVOID INTERFERENCE WITH USE OF ADJOINING AREAS OR INTERRUPTION OF FREE PASSAGE TO ADJOINING AREAS.

EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS: WHERE EXISTING SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, BYPASS SUCH SERVICES/SYSTEMS BEFORE CUTTING TO PREVENT INTERRUPTION TO OCCUPIED AREAS.

CUTTING: CUT IN-PLACE CONSTRUCTION BY SAWING, DRILLING, BREAKING, CHIPPING, GRINDING, AND SIMILAR OPERATIONS, INCLUDING EXCAVATION, USING METHODS LEAST LIKELY TO DAMAGE ELEMENTS RETAINED OR ADJOINING CONSTRUCTION. IF POSSIBLE, REVIEW PROPOSED PROCEDURES WITH ORIGINAL INSTALLER, COMPLY WITH ORIGINAL INSTALLER'S WRITTEN RECOMMENDATIONS.

PATCHING: PATCH CONSTRUCTION BY FILLING, REPAIRING, REFINISHING, CLOSING UP, AND SIMILAR OPERATIONS FOLLOWING PERFORMANCE OF OTHER WORK. PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS POSSIBLE.

INSPECTION: WHERE FEASIBLE, TEST AND INSPECT PATCHED AREAS AFTER COMPLETION TO DEMONSTRATE INTEGRITY OF INSTALLATION.

EXPOSED FINISHES: RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO RETAINED ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING.

1. CLEAN PIPING, CONDUIT, AND SIMILAR FEATURES BEFORE APPLYING PAINT OR OTHER FINISHING MATERIALS.
2. RESTORE DAMAGED PIPE COVERING TO ITS ORIGINAL CONDITION.

FLOORS AND WALLS: WHERE WALLS OR PARTITIONS THAT ARE REMOVED EXTEND ONE FINISHED AREA INTO ANOTHER, PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE. REMOVE IN-PLACE FLOOR AND WALL COVERINGS AND REPLACE WITH NEW MATERIALS, IF NECESSARY, TO ACHIEVE UNIFORM COLOR AND APPEARANCE.

CEILINGS: PATCH, REPAIR, OR REHANG IN-PLACE CEILINGS AS NECESSARY TO PROVIDE AN EVEN-PLANE SURFACE OF UNIFORM APPEARANCE.

EXTERIOR BUILDING ENCLOSURE: PATCH COMPONENTS IN A MANNER THAT RESTORES ENCLOSURE TO A WEATHERTIGHT CONDITION.

CLEANING: CLEAN AREAS AND SPACES WHERE CUTTING AND PATCHING ARE PERFORMED. COMPLETELY REMOVE PAINT, MORTAR, OILS, PUTTY, AND SIMILAR MATERIALS.

DIVISION 3

CAST-IN-PLACE CONCRETE

ALL CONCRETE WORK SHALL CONFORM TO ACI 318 (CURRENT EDITION).

CONCRETE COMPRESSIVE STRENGTH (AT 28 DAYS) SHALL BE:

1. FOOTINGS AND PIERS - 3000 PSI
2. SLABS - 4000 PSI

ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED AT 6% (± 1%)

CONCRETE SHALL NOT BE PLACED IN WATER OR UPON FROZEN GROUND.

PROVIDE GALVANIZED STEEL SLEEVES WHERE PIPES OR CONDUIT PASS THROUGH EXTERIOR WALLS, BEAMS, OR SLABS. PROVIDE PVC SLEEVES WHERE PIPES OR CONDUIT PASS THROUGH INTERIOR WALLS, BEAMS, OR SLABS.

REINFORCING BARS SHALL CONFORM WITH ASTM A615, GRADE 60 DEFORMED BARS, AND SHALL BE DETAIL AND SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315 (CURRENT EDITION). WELDED WIRE MESH FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS.

REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS UNLESS INDICATED OTHERWISE. PROVIDE CLASS A TENSION LAP SPICES FOR ALL HORIZONTAL WALL REINFORCING UNLESS INDICATED OTHERWISE. LAP ALL BARS A MINIMUM OF 40x DIAMETER AND LAP ALL WIRE MESH A MINIMUM OF 6".

CLEARANCES FOR REINFORCEMENT:

1. CONCRETE PLACED DIRECTLY ON EARTH, FOOTINGS - 3"
2. SLABS (FROM TOP, UNLESS INDICATED OTHERWISE) - 1"
3. FORMED SURFACES PLACED IN CONTACT WITH EARTH - 1-1/2" FOR BARS #5 AND SMALLER, 2" FOR BARS #6 AND LARGER

IF NEEDED, WELDING OF REINFORCEMENT IS TO BE PERFORMED IN ACCORDANCE WITH AWS D-1.4.

CONTROL JOINTS IN SLABS SHALL BE CUT (1/8" W x 1/2 SLAB DEPTH) AS SOON AS POSSIBLE WITHOUT FRAYING CONCRETE SURFACE. CONSTRUCTION JOINTS SHALL INCLUDE A 1x2 SHEAR KEY AT MID HEIGHT OF SLAB UNLESS INDICATED OTHERWISE.

ANCHOR BOLTS SHALL CONFORM TO ASTM A36 UNLESS INDICATED OTHERWISE.

DIVISION 6

MISCELLANEOUS CARPENTRY

WOOD BLOCKING:

LUMBER: COMPLY WITH DOC PS 20. DRESSED FOUR SIDES, S4S, 19 PERCENT MOISTURE CONTENT.

WOOD PRESERVATIVE TREATED MATERIALS: IN ACCORDANCE WITH ANPA C2, MINIMUM RETENTION OF 0.25 LB./CU.FT. PROVIDE FOR CANTS, NAILERS, AND BLOCKING IN CONNECTION WITH ROOFING, AND ANY WOOD BLOCKING OR SIMILAR MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.

PLYWOOD BACKING PANELS: FIRE-RETARDANT-TREATED PLYWOOD PANELS, C-D PLUGGED, EXPOSURE 1, 3/4 INCH THICK.

DIVISION 7

JOINT SEALANTS

QUALITY STANDARD: ELASTOMERIC SEALANTS: ASTM C920

LATEX SEALANTS: ASTM C 834

MANUFACTURER: PECORA OR APPROVED EQUIVALENT PRODUCTS

SCHEDULE OF MATERIALS:

1. SINGLE-COMPONENT, FLEXIBLE POLYURETHANE GENERAL PURPOSE SEALANT: PECORA "DYNATROL I-XL", FOR EXTERIOR AND INTERIOR VERTICAL JOINTS IN CONCRETE, MASONRY, AROUND METAL TRIM, DOOR, WINDOW, AND LOUVER FRAMES PENETRATING EXTERIOR WALLS
2. SINGLE-COMPONENT, FLEXIBLE POLYURETHANE SECURITY SEALANT: PECORA "DYNAFLEX", FOR EXTERIOR AND INTERIOR VERTICAL JOINTS IN CONCRETE, MASONRY, AROUND METAL DOOR, WINDOW, AND LOUVER FRAMES PENETRATING EXTERIOR WALLS, SUBJECT TO VANDALISM OR SECURITY CONCERNS
3. SINGLE-COMPONENT, NON-SAGGING SILICONE SEALANT: PECORA "PCS", FOR EXTERIOR AND INTERIOR VERTICAL JOINTS IN MASONRY, AROUND METAL DOOR, WINDOW, AND LOUVER FRAMES FINISHED WITH ORGANIC COATINGS

SHEET METAL FLASHING AND TRIM

QUALITY STANDARDS / MATERIAL WEIGHTS: COMPLY WITH SMACTA'S "ARCHITECTURAL SHEET METAL MANUAL" OR REQUIREMENTS SPECIFIED AND/OR SHOWN ON DRAWINGS, WHICHEVER IS MORE STRINGENT.

MATERIALS STANDARDS:

1. ALUMINUM: ASTM B 209 / B 209M, ALLOY AND TEMPER AS REQ
2. COPPER: ASTM B 370, H90 OR H91 TEMPER
3. STAINLESS STEEL: ASTM A 240 / A 240M OR A 666, TYPE 304, DEAD SOFT, FULLY ANNEALED
4. METALLIC-COATED (GALVANIZED) STEEL: ASTM A 755 / A 755M
5. FINISH: FACTORY-APPLIED, TWO-COAT FLUOROPOLYMER. AAMA 620, CONTAINING NOT LESS THAN 70 PERCENT PVDF RESIN BY WEIGHT IN COLOR COAT

SCHEDULE OF COMPONENTS:

1. GUTTERS: GALVANIZED STEEL, 0.028 inch (0.71 mm), PREFINISHED
2. DOWNSPOUTS: GALVANIZED STEEL, 0.022 inch (0.56 mm), PREFINISHED
3. EDGE FLASHING: GALVANIZED STEEL, 0.028 inch (0.71 mm), PREFINISHED
4. CLADDING: GALVANIZED STEEL, 0.022 inch (0.56 mm), PREFINISHED

SNOW RETENTION SYSTEM

MANUFACTURER: ROCKY MOUNTAIN SNOW GUARDS, INC. (P#877-414-7606) OR EQUAL

DESCRIPTION: SNOW FENCE SYSTEM WITH CLAMP-TO-SEAM BRACKETS.

COMPONENTS: EXTRUDED ALUMINUM CLAMP-TO-SEAM BRACKETS; ALUMINUM TUBING, ALUMINUM TUBING COUPLERS, STAINLESS STEEL TUBING CAPS, TUBING COLLARS, ICE STOPS. ALL SCREWS AND WASHERS SHALL BE STAINLESS STEEL.

DESIGN REQUIREMENTS: CONTRACTOR RESPONSIBLE TO COORDINATE WITH THE MANUFACTURER OR INDEPENDENT ENGINEER TO DETERMINE THE BRACKET SPACING BASED ON ROOF LOCATIONS ON THE DRAWINGS.

INSTALLATION: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LAYOUT GUIDE. NO COMPONENTS SHALL BE ALLOWED TO PENETRATE THE ROOF. CONTRACTOR RESPONSIBLE FOR COORDINATE OF SNOW RETENTION SYSTEM INSTALLATION AND THE NEW ROOF COATING SYSTEM.

DIVISION 9

ROOF AND SIDING RECOATING

MATERIAL: WATERBORNE, ACRYLIC ELASTOMERIC COATING SYSTEM

SOURCE LIMITATIONS: OBTAIN ALL SUPPLIES AND MATERIALS FOR EACH COATING SYSTEM FROM THE SAME MANUFACTURER AS THE FINISH COATS, OR FROM SOURCES RECOMMENDED BY THE FINISH COAT MANUFACTURER.

MATERIAL COMPATIBILITY: PROVIDE BLOCK FILLERS, PRIMERS, UNDERCOATS, REINFORCING MEMBRANES, AND FINISH COAT MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND THE SUBSTRATES INDICATED UNDER THE CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THE MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.

COLORS: MATCH COLORS TO ARCHITECT'S SAMPLES.

WARRANTY: 15 YEARS AGAINST FAILURE IN ADHESION OR WATERTIGHTNESS

MANUFACTURERS: PRODUCTS INDICATED ARE CONSIDERED STANDARD OF DESIGN AND PERFORMANCE. ALTERNATE PRODUCTS WILL BE CONSIDERED UNDER THE TERMS OF THE "SUBSTITUTIONS" PARAGRAPH ABOVE.

PROVIDE ONE OF THE FOLLOWING:

1. HYDRO-STOP PREMIUMCOAT SYSTEM BY QUEST CONSTRUCTION PRODUCTS: PARTIALLY-REINFORCED ACRYLIC ELASTOMERIC MULTI-COAT WATERPROOFING SYSTEM FOR METAL ROOFS, 45 ml
2. ARS-2-M20 SYSTEM BY ACRYMAX TECHNOLOGIES: PARTIALLY-REINFORCED ACRYLIC ELASTOMERIC MULTI-COAT WATERPROOFING SYSTEM FOR METAL ROOFS
3. ASTEC RE-HLY SYSTEM BY INSULATING COATINGS CORPORATION: PARTIALLY-REINFORCED ACRYLIC ELASTOMERIC MULTI-COAT WATERPROOFING SYSTEM FOR METAL ROOFS

DIVISION 10

SPECIALTY PRODUCTS

ITEM: DOWNSPOUT BOOTS - PROVIDE AT EACH DOWNSPOUT AND TIE INTO NEW OR EXISTING UNDERGROUND STORMWATER PIPING.

MATERIAL: GALVANIZED CAST IRON

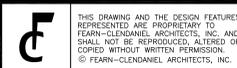
SIZE: INLETS AND OUTLETS AS REQUIRED TO MEET DOWNSPOUT AND STORMWATER PIPING SIZES INDICATED, LENGTH AS REQUIRED TO TIE INTO STORMWATER PIPING ENTIRELY BELOW GRADE AND EXTEND 16" MINIMUM ABOVE GRADE.

MANUFACTURERS: PRODUCTS INDICATED ARE CONSIDERED STANDARD OF DESIGN AND PERFORMANCE. ALTERNATE PRODUCTS WILL BE CONSIDERED UNDER THE TERMS OF THE "SUBSTITUTIONS" PARAGRAPH ABOVE.

PROVIDE ONE OF THE FOLLOWING:

1. NENAH FOUNDRY IR-4929-A14C, WITH CLEANOUT
2. APPROVED ALTERNATE

CONSULTANTS:



THIS DRAWING AND THE DESIGN FEATURES REPRESENTED ARE PROPRIETARY TO FEARN-CLENDANIEL ARCHITECTS, INC. AND SHALL NOT BE REPRODUCED, ALTERED OR COPIED WITHOUT WRITTEN PERMISSION. © FEARN-CLENDANIEL ARCHITECTS, INC.

ISSUE DATES:

ISSUED FOR BID / CONSTRUCTION	4/6/2015
ADDENDUM 2	5/11/2015

Fearn Clendaniel
Architects
INC.

6 Larch Avenue • Suite 398 • Wilmington, Delaware 19804
Ph. 302-998-7615 • Fax. 302-998-7685
www.fearnchitects.net

PROJECT:

DELAWARE STATE UNIVERSITY
MEMORIAL HALL
1200 NORTH DUPONT HWY
DOVER, DE 19901

ROOF RENOVATIONS

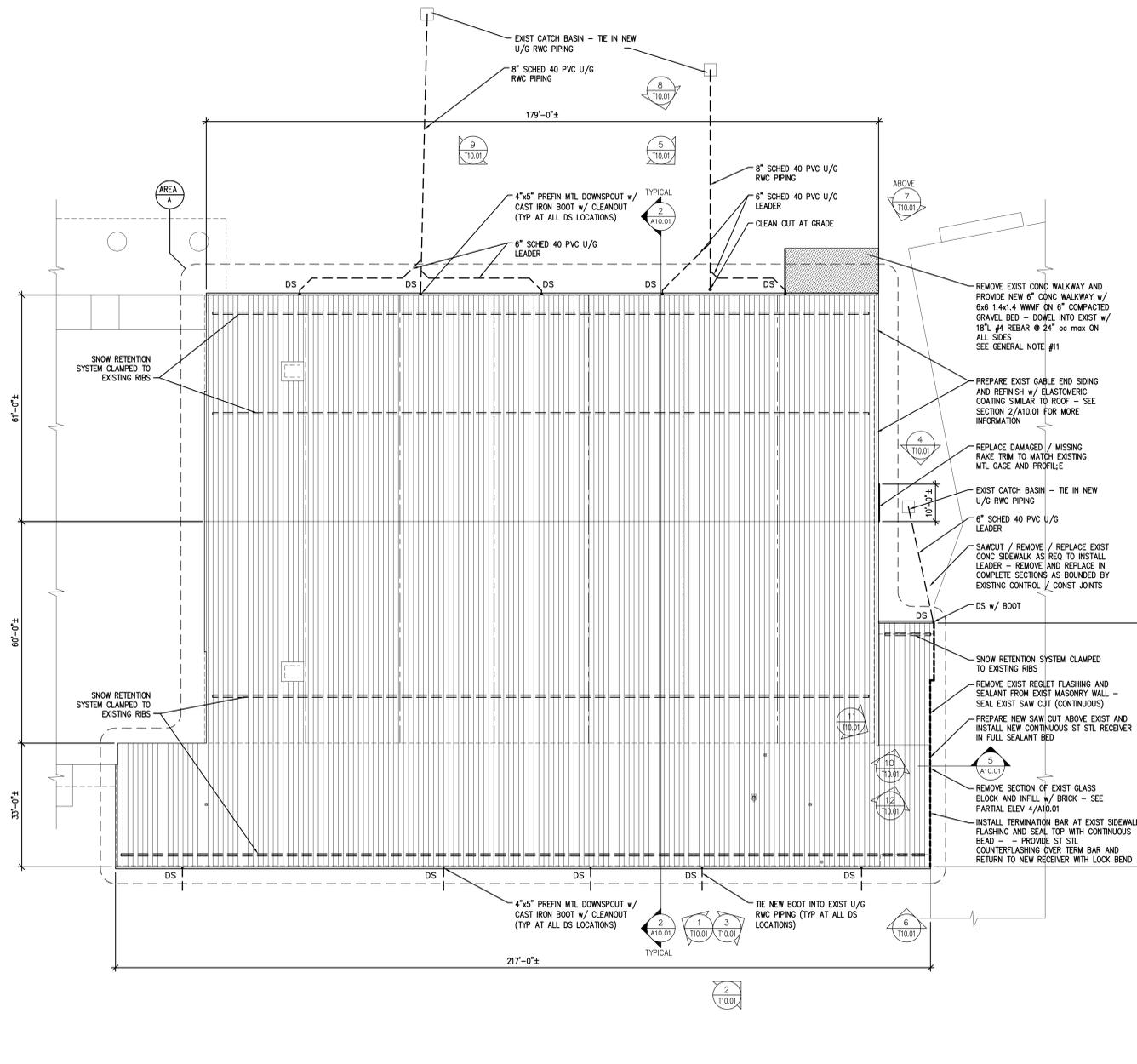
DRAWING TITLE:

SPECIFICATIONS

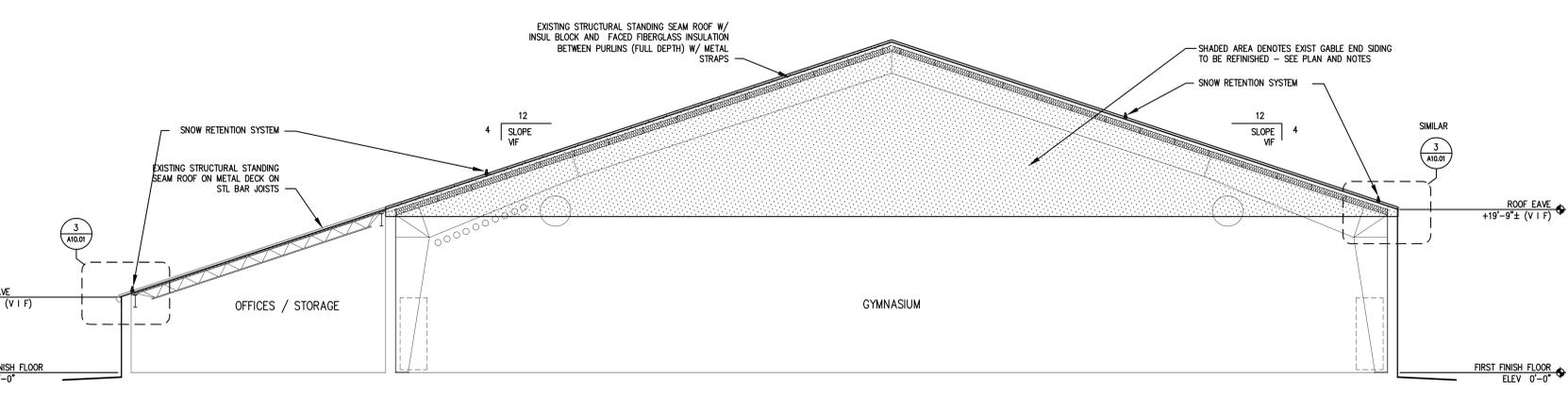
OWN. BY: CHK. BY: PROJECT NUMBER: **13101**

DATE: **04-08-2015** DRAWING NUMBER:

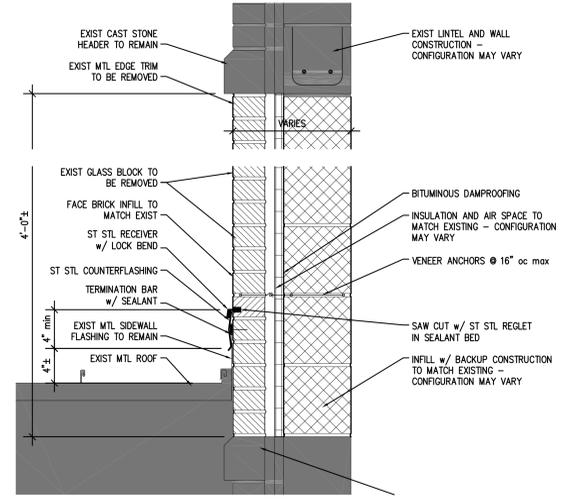
SCALE: **AS NOTED** **T10-02**



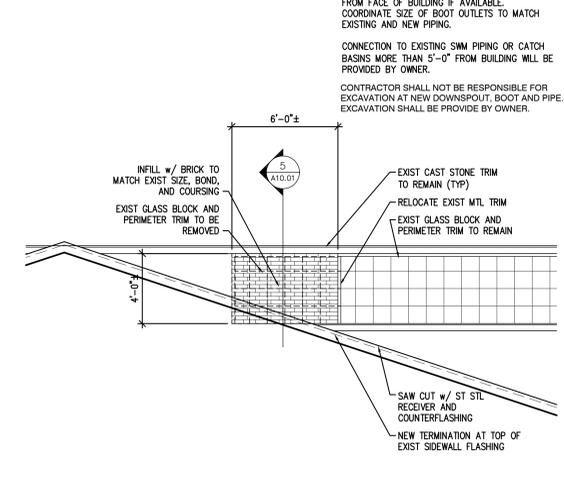
1 ROOF PLAN - MEMORIAL HALL
SCALE: 1/16" = 1'-0"



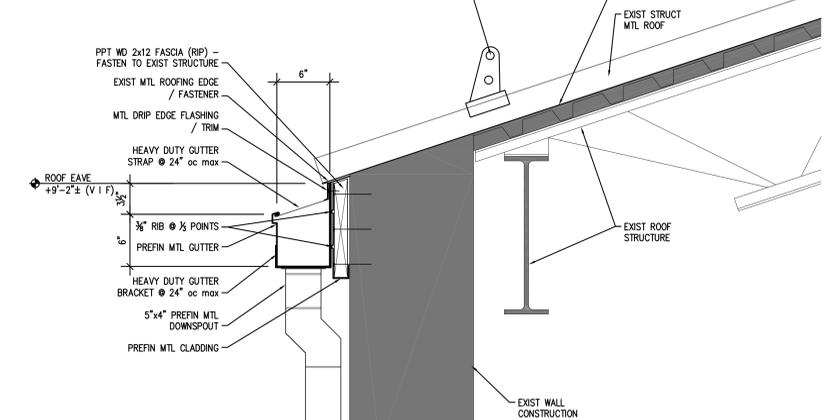
2 BUILDING SECTION - TYPICAL EXISTING
SCALE: 1/8" = 1'-0"



5 DETAIL - INFILL
SCALE: 3/4" = 1'-0"



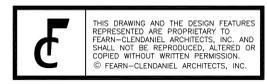
4 PARTIAL ELEVATION - EXISTING SIDE WALL
SCALE: 1/4" = 1'-0"



3 EAVE DETAIL - TYPICAL
SCALE: 1 1/2" = 1'-0"

- GENERAL NOTES**
- ALL WORK SHALL COMPLY WITH THE CURRENT EDITIONS OF THE LIFE SAFETY CODE (NFPA #101), ALL LOCAL AND STATE FIRE CODES, AND THE 2012 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS.
 - THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL PROVIDE FALL PROTECTION ELEMENTS AS REQUIRED BY OSHA 1926.501 AND 1926.502 (CURRENT VERSION), INCLUDING (BUT NOT LIMITED TO): GUARDS AT ROOF EDGES, WALL AND FLOOR OPENINGS, BARRICADES, FENCES, TIE-OFF POINTS, ETC.
 - MAINTAIN SMOKE- OR FIRE-RATED DRAFT STOPPING, SHAFT, AND FIRE SEPARATION ASSEMBLY CONTINUITY AT ALL PENETRATIONS AND INTERSECTIONS WITH ADJACENT FLOOR, WALL, OR CEILING CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS REQUIRED TO OBTAIN CERTIFICATE OF OCCUPANCY.
 - THE CONTRACTOR SHALL PROVIDE ALL UTILITIES REQUIRED FOR CONSTRUCTION, AND SHALL PROVIDE TEMPORARY SANITARY FACILITIES UNTIL CONSTRUCTION IS COMPLETE.
 - THE CONTRACTOR SHALL COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS REGARDING THE CONTROL OF POLLUTION AS IT APPLIES TO THE WORK.
 - PROPERLY DISPOSE OF ALL SCRAP, DEMOLISHED, OR REMOVED MATERIALS OFF SITE.
 - IF THE CONTRACT DOCUMENTS ARE FOUND TO BE UNCLEAR, AMBIGUOUS, OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
 - THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS FOR MATERIALS OR MODEL NUMBERS INDICATED ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT.
 - FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS. REVIEW ALL PROPOSED DRAWINGS AND VERIFY ALL DIMENSIONS. COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT.
 - ANY ITEMS OR WORK NOT SPECIFICALLY CALLED OUT AS EXISTING ARE ASSUMED TO BE NEW.
 - SHADED AREAS REPRESENT EXISTING CONSTRUCTION. EXISTING ITEMS SHOWN ARE BASED UPON AVAILABLE INFORMATION. ITEMS OR CONDITIONS SHOWN WITH CONCEALED AREAS ARE ASSUMED - ACTUAL CONFIGURATION WILL VARY.
- CONSTRUCTION NOTES**
- GROUND FLOOR LEVEL TOP OF SLAB ELEVATION IS CONSIDERED TO BE 0'-0". SEE BUILDING SECTIONS FOR ADDITIONAL ELEVATION INFORMATION.
 - ALL WOOD PLACED IN CONTACT WITH MASONRY OR CONCRETE, OR USED IN ROOF CONSTRUCTION, SHALL BE PRESSURE PRESERVATIVE TREATED.
 - EXISTING STRUCTURAL METAL ROOF TO REMAIN UNLESS NOTED OTHERWISE. PREPARE EXISTING AREA A ROOF / TRIM AND COAT WITH SPRAY-APPLIED ELASTOMERIC COATING SYSTEM. SEE NOTES AND DETAILS FOR MORE INFORMATION.
 - PRIOR TO COATING, SECURE ALL LOOSE FLASHING AND TRIM. REPLACE DAMAGED OR MISSING SECTIONS TO MATCH EXISTING GAGE AND PROFILE. REMOVE ALL GUTTERS AND DOWNSPOUTS.
 - PREPARE EXISTING ROOF SURFACE AS RECOMMENDED BY ELASTOMERIC COATING MANUFACTURER. REMOVE ALL DIRTY, OIL, OXIDIZATION, RUST, SCALE, OR OTHER SURFACE CONTAMINANTS THAT COULD INHIBIT ADHESION. ABRASE EXISTING FINISH AS RECOMMENDED. PROVIDE COATING MANUFACTURER'S MESH JOINT / GAP REINFORCEMENT TAPE SYSTEM.
 - PRIME PREPARED ROOF SURFACE AS RECOMMENDED BY ELASTOMERIC COATING MANUFACTURER. APPLY MULTIPLE LAYERS OF ELASTOMERIC COATING PER MANUFACTURER'S RECOMMENDATIONS. ALLOW TO CURE BETWEEN COATS AND PROTECT UNCURED FINISH AS REQUIRED.
 - EXTEND PREPARATION AND FINISH TO COVER ALL EXISTING METAL ROOF AND RELATED FLASHING / TRIM. TERMINATE FINISH SYSTEM EDGES AND SEAL AS TO ADJACENT CONSTRUCTION AS RECOMMENDED BY COATING MANUFACTURER.
 - PROVIDE 2 LINES OF SNOW GUARDS AT EAVES AND MIDPOINTS OF ALL SLOPED METAL ROOFS, AS SHOWN ON PLAN. SNOW GUARDS TO BE NON-PENETRATING CONTINUOUS ROD OR BAR STYLE, WITH BRACKETS ATTACHED TO ROOFING RIBS WITH STAINLESS STEEL SET SCREWS, U N O.
 - PROVIDE CONTINUOUS HEAVY DUTY PREFINISHED METAL BOX GUTTER ALONG ALL SLOPED ROOF EAVES. PROVIDE PREFINISHED METAL BOX DOWNSPOUTS AT NEW AND EXISTING LOCATIONS AS SHOWN ON PLAN. GUTTERS TO BE 6" x 4" MINIMUM U N O. DOWNSPOUTS TO BE 5" x 4" MINIMUM U N O.
 - DOWNSPOUT LOCATIONS AND PIPING SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET EXISTING CONDITIONS.
 - WALKWAY REPLACEMENT: BASE BID TO INCLUDE 25'-0" x 12'-0" AREA AS INDICATED ON PLAN. COORDINATE FINAL LOCATION, CONFIGURATION, AND QUANTITY IN FIELD WITH OWNER AND ARCHITECT.
- DEMOLITION NOTES**
- UNLESS NOTED OTHERWISE, PORTIONS OF THE EXISTING BUILDING INDICATED TO BE DEMOLISHED SHALL BE REMOVED IN THEIR ENTIRETY. COMPONENTS TO BE DEMOLISHED INCLUDE (BUT ARE NOT LIMITED TO): EXISTING GUTTERS AND DOWNSPOUTS, EAVE FASCIA TRIM.
 - ALL DEMOLISHED MATERIALS ARE TO BE REMOVED FROM THE SITE UNLESS NOTED OTHERWISE. ALL MATERIALS SHALL BE HANDLED, TRANSPORTED, AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.
 - THE CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY, OR MUNICIPAL REGULATIONS REGARDING THE CONTROL OF POLLUTION AS IT APPLIES TO THIS WORK.
 - REMAINING PORTIONS OF THE EXISTING BUILDING SHALL REMAIN IN SERVICE AND MAY BE OCCUPIED DURING DEMOLITION AND CONSTRUCTION. COORDINATE ALL DISRUPTIONS OF ACCESS OR UTILITIES WITH OWNER.
 - THE CONTRACTOR(S) MUST PROTECT REMAINING EXISTING CONSTRUCTION FROM HARM OR DAMAGE DURING DEMOLITION. PROVIDE TEMPORARY ENCLOSURES AS REQUIRED TO MAINTAIN WEATHERTIGHT CONDITIONS IN REMAINING PORTIONS OF EXISTING BUILDING.
 - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING ALL SAFETY PRECAUTIONS REQUIRED TO ENSURE THE SAFETY OF ALL PERSONS ON THE SITE.
- ALTERNATES**
- BASE BID: NORTH SIDE OF BUILDING - PROVIDE EXTRA HEAVY DUTY COMPOSITE SPLASH BLOCKS AT EACH DOWNSPOUT. ANCHOR SPLASH BLOCKS AS RECOMMENDED BY MANUFACTURER. SOUTH SIDE OF BUILDING - REPLACE EXISTING DOWNSPOUT BOOT WITH NEW CAST IRON BOOT AS SPECIFIED. TIE INTO EXISTING UNDERGROUND SWM PIPING. EAST SIDE OF BUILDING (ALLEY) - PROVIDE NEW CAST IRON DOWNSPOUT BOOT WITH NEW UNDERGROUND SWM PIPING AND TIE INTO UNDERGROUND SWM BASIN AS INDICATED ON PLAN.
 - ALTERNATE No. 1: NORTH SIDE OF BUILDING - PROVIDE NEW CAST IRON TRANSITION BOOTS AT EACH DOWNSPOUT. ANCHOR BOOTS AS RECOMMENDED BY MANUFACTURER. PROVIDE EXTENSIONS AS REQUIRED TO EXTEND BOOT FROM BELOW-GRADE LATERAL PIPING TO A MINIMUM OF 16" ABOVE FINISH GRADE. PAINT ALL CAST IRON BOOTS COMPLETELY BEFORE INSTALLATION. IF IRON BOOTS ARE NOT GALVANIZED, COAT WITH BITUMINOUS WATERPROOFING BELOW GRADE. PROVIDE NEW STORMWATER PIPING BELOW GRADE AND CONNECT TO EXISTING PIPING WITHIN 5'-0" FROM FACE OF BUILDING IF AVAILABLE. COORDINATE SIZE OF BOOT OUTLETS TO MATCH EXISTING AND NEW PIPING. CONNECTION TO EXISTING SWM PIPING OR CATCH BASINS MORE THAN 5'-0" FROM BUILDING WILL BE PROVIDED BY OWNER. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR EXCAVATION AT NEW DOWNSPOUT, BOOT AND PIPE. EXCAVATION SHALL BE PROVIDED BY OWNER.

CONSULTANTS:



ISSUE DATES:

ISSUED FOR BID / CONSTRUCTION	4/6/2015
ADDENDUM 2	5/11/2015

CONTRACTOR SHALL NOT BE RESPONSIBLE FOR EXCAVATION AT NEW DOWNSPOUT, BOOT AND PIPE. EXCAVATION SHALL BE PROVIDED BY OWNER.

Fearn Clendaniel Architects
6 Larch Avenue • Suite 398 • Wilmington, Delaware 19804
Ph. 302-998-7615 • Fax. 302-998-7685
www.fearnclendaniel.com

PROJECT:

DELAWARE STATE UNIVERSITY

MEMORIAL HALL

1200 NORTH DUPONT HWY
DOVER, DE 19901

ROOF RENOVATIONS

DRAWING TITLE: **ROOF PLAN, SECTION, NOTES, AND DETAILS**

OWN. BY: **CHK. BY: PROJECT NUMBER: 13101**

DATE: **04-08-2015** DRAWING NUMBER: **A10-01**

SCALE: **AS NOTED**