

MIDDLESEX COUNTY COLLEGE
Edison, New Jersey 08818-3050

May 18, 2017

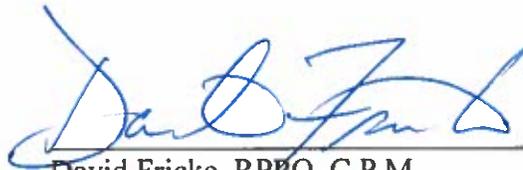
All Bidders

ADDENDUM NUMBER 1 BID # 17-37- Main Hall Science Wing Renovation

Please see the attached 45 page document.

Please note the bid opening has been changed to June 6, 2017 at 2:00 pm.

THIS PAGE MUST BE REFERENCED IN YOUR BID RESPONSE.



David Fricke, RPPO, C.P.M.
Director of Purchasing and Inventory

DOCUMENT 00 91 13
ADDENDUM NUMBER 01

DATE: May 17, 2017
PROJECT: Main Hall Science Wing Reconstruction
PSA PROJECT: 7062
OWNER: Middlesex County College
ARCHITECT: Parette Somjen Architects L.L.C.
TO: Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated April 13, 2017, with amendments and additions noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. This Addendum consists of 45 pages (including this section) and 0 full-size drawings.

1.1 Written Inquiries were due on May 15, 2017.

No written inquiries or objections to the construction schedule and/or the substantial completion date were received prior to the deadline. Construction Commencement and Substantial Completion remain as scheduled.

Q.1 Has Edison Twp. Building Dept. performed a preliminary review of the plans & specs for this project?

A.1 The local building department has not reviewed the drawings for this project. The awarded contractor will be required to submit drawings for review and permitting.

Q.2 Please consider waiving the AISC Certification requirement for the fabricator & erector for this project. This will provide greater competition and allow smaller qualified steel contractors an opportunity to bid.

A.2 Any reference to the steel fabricator and erector having AISC certification referenced in Specification section '05 12 00 Structural Steel' shall be omitted.

Q.3 Please confirm that the Scope of Work outlined in the Environmental Plans & Specs are to be included in the General Contractors Bid. There is conflicting information in the Div 1 Summary of Work that states by Owner's Asbestos Contractor and on the Demo drawing D1.01 notes states by GC's Asbestos Contractor.

A.3 The referenced language in Specification section 01 10 00 Summary; 1.2 A(2), was erroneously added. The general contractor shall engage an environmental abatement contractor and include all removal cost in their base bid.

Q.4 Please provide the contact information for the existing Fire Alarm Vendor.

A.4 The current fire alarm vender for the school is:

Fire and Security Technologies
1122 Taylorsville Road
Washington Crossing, PA 18977
908-823-4367

- Q.5 Is the existing Roof covered by a Roof Warranty? If so, please provide information.*
- A.5 The existing roof is currently under warranty; Gold Shield No Dollar Limit Roof Warranty #ANB0185332 by Johns Manville International of Littleton, CO until August 20, 2019.**
- Q.6 Dwg. A1.01 Note # 20 calls for 3M Film on the interior of the Boiler Room # 151A Window Glazing. Please provide an elevation detail of the Window.*
- A.6 The general contractor shall include 100 SF of window film to be applied to the inside portion of all glazed surfaces within the boiler room.**
- Q.7 Dwg. A2.01 Note # 11 & # 12 – Please provide specs for the new ceiling mounted projectors and new ceiling mounted manual projector screens.*
- A.7 The ceiling mounted projector and screens will be provided and installed by the owner. Contractor shall coordinate installation with owner.**
- Q.8 Dwg. A4.06 please provide specifications for the wall panels of the Mechanical Screen.*
- A.8 Specification section 07 41 13 ‘Aluminum Equipment Screen Panels’ is provided in this addendum and attached herein.**
- Q.9 Please advise if a Main Wireless Paging Controller is required in addition to the Wireless Analog Clocks called out on the plans.*
- A.9 There is an existing Visiplex wireless clock system in place and the new wireless clocks will sync with the existing system. Coordinate with owner for exact requirements.**
- Q.10 Dwg. A4.04 – please provide specifications for the Liquid Applied Waterproofing, Vapor Barrier & Rigid Insulation called out.*
- A.10 Liquid Applied Waterproofing:
The contractor shall provide Karnak 220 Fibered Emulsion Dampproofing (brush or spray), or approved equal, and install per manufacturers written instructions.**
- Rigid Insulation:
The contractor shall provide Owens Corning Foamular 250XPS 2” rigid insulation board, or approved equal, with minimum R-10 insulation characteristic, and install per manufacturers written instructions.**
- Vapor Barrier:
The contractor shall provide Henry Company Blueskin VP160 air/water resistive membrane, or approved equal, and install per manufacturers written instructions.**
- Q.11 The electrical specifications are vague on what type of wiremold to use. Please provide specifications and detail on how to feed wiremold on existing walls.*
- A.11 Legrand dual channel wiremold 4000 Series suitable for power wiring and low voltage wiring. Use wiremolds above desks as shown, refer to furniture elevation details on Architectural drawings. Vertical raceway installed on existing wall will be surface mount raceway Legrand Model 2400D connected to top of wiremold. Vertical conduits installed in new wall construction shall be recessed within new wall and connected to wiremold from back. Refer to manufacturer installation guide.**

Q.12 Dwg. E-201 Note 3 states add Floorbox. What size? Manufacturer? Please provide basis of design.

A.12 Basis of design: Hubbell System one 4 gang UL-514A listed and UL scrub water compliant. Recess concrete floor box with 2" conduit knock out; Cover size: approx: 10.5" x 6.5" flush. Suitable for tile, finished concrete, Terrazzo floors. Color and finish of cover shall be approved by Architect/MCC, submit submittal for approval.

Q.13 Are the devices shown on Dwg. A-506 pre-installed by furniture manufacturer or furnished and installed by the EC?

A.13 The electrical contractor will be responsible for field modification to the furniture in conjunction with new electrical and low voltage work in built-in furniture. The electrical contractor will be responsible for providing all requisite power to the furniture and all conduit, pulls and boxes for low voltage.

Q.14 Dwg. E-201 shows Floorbox installation (per note # 3) in Room 153 Processing Tech. No floor trenching or cutting is shown on Dwg. A-101 for this room. Please clarify.

A.14 Sketches have been provided, and attached herein, indicating the location and square footage of additional trenching and concrete slab infill in rooms 153 and 155.

Q.15 Who is providing and installing the Paper Towel & Soap Dispensers on Dwg. A5.01, A5.02, A5.04 & A5.05? If by GC provide specifications or make & model for basis of design.

A.15 The paper towel and soap dispensers will be provided by the owner and installed by the contractor. Provide blocking as required.

Q.16 Drawing A1.01. Notes #7 & #27 Instruct to infill existing above ceiling opening at the windows. Can you provide more info as to what is existing and a detail of what needs to be constructed? Also are we to assume that this detail occurs at the entire perimeter. Some rooms such as #186 Office do not show these notes, please clarify.

A.16 Referring to A1.01 note 7: The existing condition above windows is open space within the structural steel framing members of the building. Currently there is rigid insulation board "pushed into place". The general contractor will be responsible for infilling the opening with wall construction similar to wall type 4F2 on sheet A6.01. This condition exists above all windows in the science wing.

Referring to A1.01 note 27: There is existing soffit framing at window locations to accommodate the window head height and suspended ceiling system. The new ceiling will be lower than the existing and the soffit will need to be extended and finished to match the existing. This condition exists above all windows in the science wing.

Q.17 Dwg. A2.01 Note # 8 – Provide Specs for the New Sound Attenuation Blankets called out.

A.17 Provide and install CertainTeed Noise Reducer Sound Attenuation Blankets. Wrap ductwork by overlapping blankets and provide wire ties to secure to ductwork as required.

Q.18 Please provide interior elevations for missing walls of Room 153 and all of Room 155.

A.18 Sketches have been provided, and attached herein, refer to 1.3 Attachments for more information.

Q.19 Please confirm that the Chair Rails are to be installed along the perimeter of Room 153 & 155. The specs state "Bumper rail, both walls for full corridor length, end cap rail at door openings"

A.19 Specification section 10 26 00 Wall and Door Protection; "3.4 Schedules" shall read:

- A. ~~Corridor: Bumper rail, both walls for full corridor length, end cap rail at door openings.~~**
- B. Classrooms: Bumper rail, all walls to receive full length protection, end cap rail at door openings.**
 - 1. Processing Tech Room 153**
 - 2. General Classroom 155**

Q.20 Please confirm whether or not F & I of Tele/Data Equipment is part of this contract. If it is part of this contract, we do not see a Comm. Closet on drawings E-062 or E-201, please provide a drawing or an estimated distance and designation of Comm. Closet.

A.20 Tel/Data equipment are not part of this contract. We are providing empty conduits and data/tel outlets at designated locations. Data patch panel is located in Room 211.

Q.21 The fire alarm specification references adding to existing Siemens panel, the existing system in the building is a Simplex 4020 system connected to the campus fiber network. Please clarify.

A.21 Existing system is Simplex 4020.

Q.22 There is reference to a 5 year warranty from the date of substantial completion. The system in this building is over 20 years old. A 5 year of warranty of an existing system of this vintage will add substantial cost to the project. Is this required?

A.22 Warranty terms of five years shall be revised to one year warranty. Contractor shall provide one year warranty from the date of substantial completion.

Q.23 Dwg. D1.01 - What is the depth of the concrete slab that is to be cut? Drawing Note #

A.23 The existing concrete slab is assumed to be 6" thick.

Q.24 Dwg. A1.01 – What is the depth of the concrete slab covering the existing pipe trench? Drawing Note # 5.

A.24 The existing concrete piping trench cover is assumed to be 4" thick.

Q.25 Section 028200 – Asbestos Abatement & Disposal page 14 indicates required Unit Prices. The Bid Form doesn't contain any sections to provide Unit Prices. Please clarify.

A.25 There will not be a requirement to submit unit pricing. Specification 02 82 00, section 2.1, (C); (1-7) shall be omitted from the specification section.

Q.26 I have received a few requests from subcontractors who would like to visit the site that were unable to make the pre-bid meeting. Can we schedule another site visit and who should we contact to arrange it if possible?

A.26 An additional site visit was held on May 11, 2017.

Q.27 Please provide the height and width specs for the interior ADA plaques.

A.27 Provide and install 9" wide x 6" high signage as specified.

Q.28 Please advise who is responsible for the I.T. Demo including the ceiling mounted wireless routers.

A.28 IT demo will be performed by the owner prior to start of construction.

Q.29 Are the ceiling mounted speakers in the classrooms slated for demolition?

A.29 The ceiling mounted speakers, projectors, and screens will be removed by the owner prior to the start of construction. The contractor will be responsible to remove any abandoned wiring above ceiling.

Q.30 260519 Section 3.2 F of the specification state the use of MC Cable concealed in partitions and above ceilings is permissible. 260533 Section 3.1 B # 5 states that concealed in partitions and above ceilings are to be EMT. Can MC Cable be used?

A.30 For concealed application, UL listed MC Cable may be used.

Q.31 Is there a make/model # for the plug/stripmold that is shown on drawings? Is there a special requirement for the science classrooms?

A.31 Legrand dual channel wiremold 4000 Series suitable for power wiring and low voltage wiring. Use wiremolds above desks as shown, refer to furniture elevation details on Architectural drawings.

Q.32 Do the work stations come with pre-wired receptacles or will wiring, boxes and receptacles have to be supplied and installed?

A.32 The electrical contractor will be responsible for field modification to the furniture in conjunction with new electrical and low voltage work in built-in furniture. The electrical contractor will be responsible for providing all requisite power to the furniture and all conduit, pulls and boxes for low voltage.

Q.33 Some of the panels listed in the panel schedule call for "Split Bus Panel", but there is no indication where the split needs to be. Please clarify.

A.33 Provide receptacles on demonstration table on breakers to be fed by split bus to turn off in case of emergency on demonstration table. Provide shop drawing indicating these breakers on split bus on panel schedule. Provide Emergency Power Off (EPO) button connected to ASCO 920 (60Amp) split bus breakers, EPO shall be located near the exit door.

Q.34 It seems like the Interior Elevations of plan sheets A-500's don't match up with the Furniture/Finish Plan & Finish Schedule plan sheets of the A300s. The sizes and layouts differ. Please clarify on sheet A3.01, room 155 and verify size item #5 on the corridor wall. Is this a markerboard or tackboard?

A.34 Sketches have been provided, and attached herein, refer to 1.3 Attachments for more information.

Q.35 On plan sheet M-052 Note 1 is illegible.

A.35 Sheet M-052 note 1 reads "The trench will be backfilled. Refer to architectural drawings."

Q.36 Plan sheet A3.01 Finish Schedule: Walk Off Mat W-1 Mats Inc. Supreme NOP, Charcoal. Supreme NOP is available either in sheet goods or carpet tile, which is desired? If walk of mat is to be sheet material, which size is preferable 6' - 7" wide or 13' - 2" wide? If sheet material is preferred, which direction is mat to be installed?

A.36 W-1 walk off mat shall be carpet tile.

Q.37 Spec says " Fritz tile standard 12" x 12" "According to the distributor there are 3 price ranges. Fritz Tile Classic or Natural Quarry Series 12"x12" 3/16" lowest. Fritz Tile Rglass series 12"x12" 3/16" mid. Fritz Tile Reglass Brights Series 12"x12" x 3/16" highest. Which tiles are required? There is a difference in price. Also T1 is only shown in the connecting corridor, not in corridor 193 or the café. Is this correct?

A.37 The existing terrazzo flooring throughout corridor 193 and café is existing to remain. T-1 flooring is to be Fritztile as specified; style Rglass; color shall be Almond (R68022).

Q.38 Regarding Sub-contractor qualifications please confirm sub-contractor requirements are to hold valid Public Works and New Jersey Business Registration certificates and adhere to New Jersey Prevailing Wage Act.

A.38 Yes, subcontractors are required to hold the above mentioned documents and adhere to the New Jersey Prevailing Wage Act. Subcontractors do not need to be NJDPMC qualified.

Q.39 Room 153, please confirm elevation 1/A5.05 is the only casework required for this room. Sheet A3.01 shows (12) tables and a teacher station. Are these to be supplied under spec 123553? If so, please provide a detail or model for each.

A.39 The loose tables shown in the room are for informational purposes only and will be supplied by the owner.

Q.40 Please confirm detail 3/A5.06 is typical of rooms 150, 152, 155, 157 & 161.

A.40 The teachers workstation shown in 3/A5.06 is typical of the above mentioned rooms. The contractor shall include Processing Tech 153 to the list of rooms to received fixed teacher workstation.

Q.41 Please confirm the casework shown in details 2 & 3/A5.05 are meant for Copy Area 170 and should be supplied under spec 123553.

A.41 The referenced elevations are for Copy Area 170. Sketches have been provided, and attached herein, refer to 1.3 Attachments for more information.

Q.42 Both rooms 157 & 161 show (4) student tables identified by detail 4/A5.06 plus (2) additional loose tables. Are these tables to be supplied under spec 123553? If so, please provide a detail or model number.

A.42 The two (2) additional tables and additional chairs are considered loose and movable, and will be provided by the owner.

Q.43 Room 159 shows casework in plan view on sheet A3.01, however there is no elevation or detail. Is this part of the GC work (spec 123553)? If so, please provide elevation.

A.43 Sketches have been provided, and attached herein, refer to 1.3 Attachments for more information.

Q.44 The elevation indicators for rooms 157, 159A & 161 do not seem to match the actual elevations shown on sheets A5.03, A5.04 & A5.05. Please advise.

**A.44 The elevations on sheet A5.03 should read from top to bottom: 3, 1, 2, 4
The elevations on sheet A5.04 should read from top to bottom: 3, 1, 4, 2
The elevation marker on sheet A5.05 is as follows; Top elevation 6; Right elevation 7;
Bottom elevation 4; Left elevation: 5.**

Q.45 Spec 123553 does not seem to include faucets, sinks, pegboards, doghouse power receptacles. Please confirm these items were all meant to be part of spec 123553 and provide description, sizes and/or model numbers for each.

A.45 Sinks and pegboards are shown and indicated on the casework schedule on drawing sheets A5.01-A5.05. Contractor shall provide and install Campbell Rhea faucet model #9511 at all sink locations and all requisite supply and waste piping for sinks and faucets. Provide isolation valves for all supply lines.

Q.46 Please review RFI relative to Alternate #2. See attached photo of mechanicals above ceiling where new steel beams are to be installed as per S2.04. There are no drawings provided on how to re-route the existing mechanicals (plumbing, electric, sprinkler, HVAC) in order to install the new steel beams.

A.46 The existing mechanical, plumbing, electrical and sprinkler are being modified throughout the entire science wing; the contractor will be responsible for coordinating the installation of new steel with the new work being performed and modify any existing as necessary for complete installations of all trade work.

Q.47 Please confirm that all utility company charges (gas upgrade, etc.) will be borne by MCC as there is no way to determine what these fees will be at this time or if these fees will even be charged.

A.47 The contractor will be responsible to coordinate the utility work with the appropriate utility company. The utility company costs will be borne by the owner.

Q.48 Please confirm that data, security and IT wiring is by the Owner as indicated at the pre-bid meeting.

A.48 This is confirmed. The above captioned work will be performed by the owner.

Q.49 Please confirm that 3rd party testing costs for concrete, steel, etc. will be borne by the Owner.

A.49 All third party testing costs will be borne by the contractor.

Q.50 Section 45 on Page B-22 indicates the use of a field office. Is it acceptable to use space in the existing building work area for an office or is a site trailer required.

A.50 It is acceptable for the contractor to use the existing building as their field office. No site trailer will be required.

Q.51 Page C-1.10 of the Technical Specifications, Section 2 "Compliance" states "The buildings will be occupied during this project. All work must comply with PEOSHA Indoor Air Quality (IAQ) requirements for construction in an occupied building. Every effort must be made to prevent dust and fumes from entering the occupied space. Contractor to coordinate with MCC maintenance personnel to achieve optimum results." Please advise as to what the PEOSHA IAQ requirements are.

**A.51 PEOSHA IAQ requirements can be found at the provided website hyperlink:
<http://www.state.nj.us/health/workplacehealthandsafety/peosh/peosh-health-standards/iaq.shtml>**

Q.52 Drawing A1.01 indicates Note 19 from Column Line 16 to 20. Note 19 indicates that the “terrazzo is to be restored to match existing.” As discussed at the prebid meeting, it is assumed that the walls to be removed in this area were built on the existing terrazzo and that no patching, except for possibly the terrazzo matrix where the track was fastened to the floor, need be done. As such, the only “restoration” of the terrazzo is that it is to be polished and sealed. Please confirm.

A.52 The scope of work for restoring the existing terrazzo is repairing the track where it was fastened to the substrate, where applicable, and polishing and sealing the floor area in the café and corridor of the science wing.

Q.53 Can an Alternate ATC Contractor be used or using TBS who is currently on campus mandatory?

A.53 The Specification section 23 09 23 article 2.01.B shall be added to read as below

“2.01.B Approved Manufacturer:

- a. Schneider Electric**
- b. Approved Equal**

Approved equal manufacturer shall be able to fully integrate new system with existing Schneider Electric BMS system.

Q.54 Upon start-up, will remote access be given to “dial-in” to the ATC controls for remote troubleshooting or monitoring?

A.54 There will not be any remote access permitted.

Q.55 What Tonnage or Model number is the Trane Chiller to be demolished?

A.55 The following are details of the existing York Chiller.

Tonnage	Date of Purchase	Manufacturer	Type	Model #	Serial #	Ref Type
250	January-08	York	Centrifugal	YKCRQ3-CHG	SMTM-143780	R134A

Q.56 What type of refrigerant is in the Trane Chiller to be demolished?

A.56 Refer to response #55.

Q.57 Can the Campus HWH heat loop be tied into and used for temporary heat in Main Hall construction project, since heat will be needed for construction during the winter months.

A.57 Yes, contractor shall coordinate with MCC for availability of hot water. If the campus loop is shutdown or cannot be used, contractor will still be responsible to provide temporary heat. Refer to specification section 01 31 00 “Project Management and Coordination” in 1.3 Attachments for more information.

Q.58 Can other trades work in the MER while abatement is done in the classrooms?

A.58 The contractor will be permitted to work in the MER.

Q.59 Does MCC want the old chiller after it is removed from the building or should it be taken away and disposed of?

A.59 The owner does not wish to retain the demolished chiller. The contractor will be responsible for disposal and removal off site.

Q.60 Is Victaulic and Propress acceptable for HVAC piping?

A.60 Yes, Victaulic and pro-press piping is acceptable.

Q.61 Will there be additional HVAC spec sections coming out; some sections seem to be missing?

A.61 There will not be any more HVAC specifications issued.

Q.62 RTU schedule calls for seismic vibration adapter curb with welded corner bracing. However, the detail on M5.01 shows a curb welded to the roof structure. We were told at the prebid meeting the roofing is new and is not to be disturbed. Please issue a detail for the adapter curb and support required.

A.62 RTU schedule call for seismic vibration adapter curb. The adapter curb shall be anchored to existing curb. Existing curb construction is not known until the existing unit is removed. Contractor shall follow adapter curbs manufacturer's instruction for anchoring adapter curb to existing curb.

Q.63 Equipment rails are shown on Drawing M5.01 for new condensing units. Are they to be flashed into the new roof?

A.63 Per note 12 on drawing sheet A1.02 and detail 2 on drawing sheet A6.02, pre-manufactured pate curbs are to be flashed into existing roof system.

Q.64 Please provide detailed scope of work under asbestos containing material or other contaminants that need to be abated by the contractor on this project. If possible provide specific items or quantities. For example we do realize that no all flooring is VAT.

A.64 Asbestos Containing Material locations, approximate quantities and removal methods are detailed in Specification Section 02 82 00 and associated Plans. Work associated with Laboratory Equipment Disassembly is detailed in Section 02 95 00. As per the Specifications, the Contractor shall field verify all field conditions and quantities specified. The quantities shown are for informational purposes only and no guarantee is expressed or implied that the quantities are correct or that the asbestos containing materials are easily removable from the substrate, surfaces or components. No allowances shall be made for failure of the Contractor to verify in the field amounts or existing field conditions.

Q.65 Who is responsible to cover the cost for the gas main upgrading. Utility company at this time will not quote the contractor for the work. You may want to consider covering the cost under an allowance.

A.65 The contractor will be responsible to coordinate the utility work with the appropriate utility company. The utility company costs will be borne by the owner.

Q.66 The HW sets call for continuous geared hinges across the board. All the new frames are wood. Do you want continuous geared hinges in wood frames?

A.66 The existing frames to remain are hollow metal and will receive continuous geared hinges. All new frames indicated by 'WD' (welded hollow metal) will receive continuous geared hinges.

1.2 Additional Information

- A. Environmental subcontractor has been added to the subcontractor disclosure list on D-1.2. The original Bid Specification 'Section D' dated 4/13/17 has been superseded and is replaced in its entirety with 'Section D' included in this addendum and attached herein. Refer to 1.3 Attachments for more information.

1.3 Attachments

- A. Bid Specification – Section 'D', dated May 17, 2017, attached herein.
- B. Specification Section 01 31 00 "Project Management and Coordination", dated May 17, 2017, attached herein.
- C. Specification Section 07 41 13 'Aluminum Equipment Screen Panels', dated May 17, 2017, attached herein.
- D. Sketch SK0.1 "Classroom Key Plan Sheet Indicator", dated May 17, 2017, attached herein.
- E. Sketch SK1.1 "Additional Trenching Locations", dated May 17, 2017, attached herein.
- F. Sketch SK1.2.1 "Classroom 153 Elevations", dated May 17, 2017, attached herein.
- G. Sketch SK1.2.2 "Classroom 153 Elevations", dated May 17, 2017, attached herein.
- H. Sketch SK1.3.1 "Classroom 155 Elevations", dated May 17, 2017, attached herein.
- I. Sketch SK1.3.2 "Classroom 155 Elevations", dated May 17, 2017, attached herein.
- J. Sketch SK1.4.1 "Casework Clarification", dated May 17, 2017, attached herein.

The undersigned acknowledges receipt of and has reviewed Addendum Number 01 and agrees to all conditions outlined herein. It is further agreed that this Addendum shall become part of the Contract Documents and any resultant costs shall be included in the Bid Price.

Printed Name of Bidder

Company

Signature

Date

END OF DOCUMENT 00 91 13

SECTION D

REQUIRED CONTRACT DOCUMENTS

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CONTRACTOR'S PROPOSAL
BID #17-37

Main Hall Science Wing Reconstruction

MIDDLESEX COUNTY COLLEGE
EDISON, NEW JERSEY 08818

To: Board of Trustees
Middlesex County College
Edison, New Jersey

Members of the Board and/or Owners:

The Undersigned hereby declares that he/she carefully examined the site of the work, the Contract and Specifications, and the Drawings therein referred to, and will provide all necessary machinery, tools, apparatus, and other means for construction on all bid items and do all the work and furnish all the materials called for by said Contract and Specifications, and the requirements under them, in accordance with the Advertisement, Instructions to Bidders, Plans, Specifications, all which are annexed hereto and form a part of this Contract, and any instructions which may be given during the work, in the time allowed by this contract.

The Undersigned understands that no subsequent claim for additional cost based on lack of full knowledge of the conditions of this project will be considered.

BASE BID

Total cost to complete as specified \$ _____

(In words) _____

ALTERNATE #01 Vestibule

Total cost to complete as specified \$ _____

(In words) _____

ALTERNATE #02 Mechanical Screen

Total cost to complete as specified \$ _____

(In words) _____

Acknowledgment is hereby made of the following Addenda:

Accompanying this proposal is a (certified check or bid bond in the amount of \$ _____, being ten percent (10%) the amount of the proposal. This bond shall become the property of Middlesex County College, Middlesex County, Edison, New Jersey, if, in case this proposal shall be accepted by Middlesex County College, the undersigned shall fail, either to execute a contract or to furnish the surety required by the law within the time fixed; otherwise, the said bond is to be returned to the undersigned.

Signature of person, firm, or corporation making the bid:

(Firm Name)

By: _____

P.O. Address: _____

(Zip Code)

Phone No: _____

Fax No: _____

Dated: _____

Bid Title: _____

Board of Trustees
Middlesex County College
Edison, New Jersey 08818

Date: _____

Sir/Madam:

Pursuant to and in accordance with our Non-Collusion Affidavit, Affirmative Action Certificate, Stockholder Disclosure, Bid Security, if applicable, and our specifications for Bid #_____, we propose to furnish and deliver the material and/or services within the time requirement as stated in the specifications.

All of the documents enumerated above are attached hereto and are hereby made a part hereof.

The Bidder hereby certifies that all of the figures, computations and additions used in estimating the bid herein have been carefully checked and are accurate in all respects and no further claims shall be made as a basis for withdrawal of this bid after opening on these grounds.

Minimal quantities have been specified. The College reserves the right to purchase additional quantities at the bid price at any time up to 90 days after the final delivery date specified.

*Bid Security in the sum of ten percent in the form of _____ including signed Surety Consent, form is submitted herewith in accordance with specifications.

This bid shall remain in effect and will not be withdrawn for any reason for a period of 60 days from date specified for opening bids.

It is agreed and understood that failure to fulfill the terms of this bid award in whole or in any part shall not relieve the liability of the bidder including his surety and will be subject to such legal action as deemed necessary by the Board of Trustees.

By signing this proposal, the contractor acknowledges that they have read and agreed with Exhibit B (Affirmative Action Program), with reference to P.L. 1975, C. 127 (N.J.A.C. 17:27)

Dated this _____ day of _____, 20_____

Name of Firm

Please Print Name and Title

Address of Firm

Signature of Authorized Officer

Town, State, Zip Code

Corporate Seal:

(_____) _____

Telephone Number

(_____) _____

Fax Number

*Required If Your Bid Response Exceeds \$25,000.00. The Surety Must Be Licensed To Transact Business In The State Of New Jersey.

This form must be completed, signed, sealed, and returned with your bid.

(REMAINDER OF PAGE INTENTIONALLY LEFT BLANK)

PERFORMANCE RECORD

How many years has your organization been in business as a contractor under your present business name?

How many years experience in construction work has your organization had:

(a) As a general contractor? _____

(b) As a sub-contractor? _____

What is the construction experience of the principal individuals of your organization?

Individual's Name	Present Years of Position Construction or Office Experience	Magnitude and Type of Work	In What Capacity
----------------------	---	-------------------------------	---------------------

Have you ever failed to complete any work awarded to you? _____

If so, where and why? _____

Has any officer or partner of your organization ever failed to complete a construction contract handled in his own name? _____

If so, state name of individual, name of owner, location and type of project, and reason for the failure to complete

~~April 13, 2017~~

May 17, 2017 Addendum #01

Middlesex County College
Main Hall Science Wing Reconstruction
PSA# 7062

The Contractor shall include, with his bid, a listing of five (5) projects satisfactorily completed over a period of not less than three (3) years. These projects shall prove successful experience in projects similar to the project described in these specifications. The listing shall include the name of the firms for which the projects were performed, a description of the projects and the name and phone numbers of references who may be contacted by the College.

The Contractor must provide or have ready access to all of the necessary equipment required to perform the work described in these specifications at no additional cost or inconvenience to the College.

The Contractor shall include in its Bid verification that the work under this contract will be performed by tradesmen properly licensed by the State of New Jersey.

PERFORMANCE RECORD: List all related contracts to this bid that were completed by your firm.

Name Of Owner	Name and Location of Project and Type of Work	Prime/ Sub - Contractor	Engineer In Charge For Owner	Contract Price (Omit Cents)	Date Completed	Was Time* Extension Necessary	Were Any* Penalties Imposed	Were Liens* Claims, or Stop Notice Filed
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* Explain "Yes" answers under the corresponding item.

This prerequisite form must be completed and returned with your bid response.

D-5a

EXPLANATION OF QUALIFICATIONS

Explanation of details in connection with non-completion of contracts; time extension; penalties imposed; labor troubles experienced; liens, claims, and stop notices filed against contracts listed in preceding items: "Performance Record", "Qualification Form", and "Equal Opportunity Clause".

(Name of Organization)

(Signature)

(Title)

STATE OF _____)
COUNTY OF _____) ss:

_____, being duly sworn according to law, deposes and says that he is authorized to make this affidavit for, and on behalf of the individual, partnership or corporation herein first named as the bidder; that deponent is familiar with the books of the said bidder and that the foregoing financial statement is a true and accurate statement taken from the books of said bidder of such financial condition, as of the date herein first named; that the answers to the foregoing interrogatories are true and correct.

(Signature)

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

(Notary Public)

This prerequisite form must be completed and returned with your bid response.

NON-COLLUSION AFFIDAVIT

STATE OF _____)

COUNTY OF _____) ss:

I, _____ of the City of _____,
(Name of Authorized Officer)

in the County of _____ and the State of _____,

of full age, being duly sworn according to law on my oath depose and say that:

I am _____ of _____,
(President, Partner, as applicable) (Name of Contractor)

the bidder making the proposal for the above named project, item, or service, and that I executed the said proposal with full authority so to do; that said bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in said proposal and in this affidavit are true and correct, and made with full knowledge that the Board of Trustees of Middlesex County College relies upon the truth of the statements contained in said proposal and in the statements contained in this affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by:

Name of Contractor

Signature of Authorized Officer

Title

Subscribed and sworn to before me
this _____ day of _____, 20

Affix Notary Seal:

(Notary Public's Signature)

My commission expires: _____

This prerequisite form must be completed, signed, sealed, and returned with your bid.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we the undersigned, _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto _____ as Owner in the penal sum of _____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed this _____ day of _____, 20_____. The Condition of the above obligation is such that whereas the Principal has submitted or about to submit to _____ a certain Bid attached hereto and hereby made a part hereof to enter into a contract in writing for the _____

NOW, THEREFORE,

- (a) If said Bid shall be rejected, or in the alternate,
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which Middlesex County College may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

_____(L.S.) _____
Principal Surety

By: _____

IMPORTANT: Surety companies executing bonds must be authorized to transact business in the State of New Jersey.

This prerequisite form must be completed and returned with your bid response.

NEW JERSEY SURETY DISCLOSURE STATEMENT AND CERTIFICATE
pursuant to N.J.S.A. 2A:44-143
(for use when surety(ies) have a certificate U.S. Secretary of
the Treasury in accordance with 31 U.S.C. s9305)

_____surety(ies) on the attached bond hereby certify(ies) the following:

- (1) The surety(ies) meets the applicable capital and surplus requirements of R.S. 17:17-6 as the surety's most current annual filing with the New Jersey Department of Insurance.
- (2) The capital and surplus, as determined in accordance with the applicable laws of this State, of the surety(ies) participating in the issuance of the attached bond is (are) in the following amounts as of the calendar year ended December 31, 20__, which amounts have been certified on a Consolidated Certification by _____ and are included in the Annual Statement on file with the New Jersey Department of Insurance, 201 West State Street, Trenton, New Jersey.

- (3) With respect to each surety participating in the issuance of the attached bond that has received from the United States Secretary of the Treasury a certificate of authority pursuant to 31 U.S.C.s 9305, the underwriting limitation established therein on June 30, 1995 is as follows:

- (4) The amount of the bond to which this statement and certification is attached is \$ _____, not to exceed
- (5) If, by virtue of one or more contracts of reinsurance, the amount of the bond indicated under item (4) above exceeds the total underwriting limitation of all sureties on the bond as set forth in items (3) above, then for each such contract of reinsurance:
 - (a) The name and address of the reinsurer under that contract if applicable, and the amount of that reinsurer's participation in the contract is Reliance Insurance Company,
 - (b) Each surety that is party to any such contract of reinsurance certifies that each reinsurer listed under item (5) (a) satisfies the credit for reinsurance requirement established under P.L.1993, c.243 (C.17:51 8-1 et seq.) and any applicable regulations in effect as of the date on which the bond to which this statement and certification is attached shall have been filed with the appropriate public agency.

CERTIFICATE
(to be completed by an authorized certifying agent for
each surety on the bond)

I _____, as _____ for _____, a corporation insurance company domiciled in _____, DO HEREBY CERTIFY that, to the best of my knowledge, the foregoing statements made by me are true, and ACKNOWLEDGE that, if any of those statements made by me are false, this bond is VOID.

(Signature of Certifying Agent)

(Printed Name of Certifying Agent)

(Title of Certifying Agent)

(Date)

CONSENT OF SURETY

In consideration of the premises and of one dollar (\$1.00) lawful money of the United States, to it in hand paid by the Contractor, the receipt whereof is hereby acknowledged, the undersigned surety consents and agrees that if the contract, for which the preceding estimate and proposal is made, be awarded to the person or persons submitting the same as contracted, it will become bound as surety and guarantor for its faithful performance, in an amount equal to one hundred percent (100%) of the contract price, and bound as surety and guarantor for labor and material payment in an amount equal to one hundred percent 100% of the contract price, and will execute them as party of the third part thereto when required to do so by the Owner, and if the said Contractor shall omit or refuse to execute such contract if so awarded, it will pay without proof of notice and on demand to the Owner any increase between the sum to which the said Contractor would have been entitled upon the completion of the said Contract and the sum which the said Owner may be obligated to pay to another Contractor to whom the Contract may afterwards be awarded, the amount in such case to be determined by the bids plus the cost, if any, of re-advertising for bids for this work, less the amount of any certified check or bid bond payable and received.

In witness whereof, said surety has caused these presents to be signed and attested by a duly authorized officer, and its corporate seal to be hereto affixed this _____ day of _____, 20__ ,

(A corporate acknowledgment and statement of authority to be here attached by the Surety Company).

*BY: _____
Surety Company
Attorney-in-Fact

Attest:

*Must be licensed to transact business in the State of New Jersey.

Required when your response exceeds \$25,000 or must be included in the bid bond being submitted with this response if elected. Failure to submit this form or exclude it in the bid bond with your response shall automatically disqualify the bidder.

This prerequisite form must be completed and returned with your bid response.

QUALIFICATION FORM

Bidder's past record under the New Jersey Prevailing Wage Act (N.J.S.A. 34: 11-56.25 to 56.46 inclusive) and all acts amendatory thereof and supplemental thereto.

Special Instructions: Answer each question with a "yes" or "no" entered in the space provided and furnish additional information when required.

1. Has the Bidder been notified by the Commissioner of Labor by notice issued pursuant to N.J.S.A. 34:11-56.37 that the Commissioner has listed and is keeping on record the name of such Bidder for failing to pay the prevailing wage?

YES _____ NO _____

2. Has any person having an interest in the Bidder had any interest in any firm that has been listed by the Commissioner of Labor for failing to pay prevailing wages? (N.J.S.A. 34:11-56.38)

YES _____ NO _____

3. If the answer to any of the aforesaid questions is "yes", annex a full statement showing the date of the action taken by the Commissioner of Labor, the subsequent action, if any, taken with respect to such action of the Commissioner, the name of the person, firm, corporation or partnership listed by the Commissioner and the nature, character and extent of the interest existing between the bidder and the name which was listed as aforesaid.

4. If awarded this contract, (pursuant to N.J.A.C. 12:60-2.1 and 6.1) the bidder agrees to provide "Certified Copies" of all applicable "Payroll Records" for each pay period within ten (10) days of the payment of wages. All records shall be made available for inspection to all interested parties during normal business hours by the College.

"Payroll Record" means a form satisfactory to the Commissioner, wherein is shown employee information such as name, address, social security number, craft or trade, together with actual hourly rate of pay, actual daily, overtime and weekly hours worked in each craft or trade, gross pay, itemized deductions, and net pay paid to the employee. Such record shall also include:

- a. Any fringe benefits paid to approved plans, funds or programs on behalf of the employee
- b. Fringe benefits paid in cash to the employee

NOTE: THE COLLEGE RESERVES THE RIGHT TO WITHHOLD PROGRESS AND/OR FINAL PAYMENT(S) UNTIL ALL RECORDS HAVE BEEN RECEIVED BY THE PURCHASING DEPARTMENT.

Acknowledgment of the above:

By: _____ Date: _____

Title: _____

This prerequisite form must be completed and returned with your bid response.

AFFIRMATIVE ACTION RESPONSE SHEET

CONTRACTS COVERING CONSTRUCTION, RENOVATION AWARDS REQUIRE THE FOLLOWING:

[] HAVE REVIEWED THE PROVISIONS OF SECTION (D) AND WILL SUBMIT THE INITIAL PROJECT MANNING REPORT FORM, (AA-201), WITHIN THREE DAYS, AFTER THE SIGNING OF THE CONTRACT, TO THE STATE OF NEW JERSEY AND MIDDLESEX COUNTY COLLEGE PURCHASING DEPARTMENT. A COPY OF THE MONTHLY PROJECT MANNING REPORT WILL ALSO BE PREPARED AND FORWARDED ONCE A MONTH THEREAFTER FOR THE DURATION OF THIS CONTRACT TO THE NEW JERSEY STATE AFFIRMATIVE ACTION OFFICE AND TO THE PURCHASING DEPARTMENT OF MIDDLESEX COUNTY COLLEGE.

I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT AND AUTHORIZED BY THE FOLLOWING SIGNATURE FOR COMPLIANCE AS SPECIFIED IF AWARDED THIS CONTRACT.

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____ BID IDENTIFICATION #: _____

This prerequisite form must be completed and returned with your bid response.

STOCKHOLDER OR PARTNERSHIP DISCLOSURE REQUIREMENT

Pursuant to New Jersey Statute (N.J.S.A. 52:25-24.2):

1. No corporation or partnership shall be awarded any contract nor shall any agreement be entered into for the performance of any work or the furnishing of any materials or supplies, the cost of which is to be paid with or out of any public funds, by the State or any county, municipality, or school district, or any subsidiary, or agency of the State, or of any county, municipality, or school district, or by any authority, board, or commission which exercises governmental functions, unless prior to the receipt of the bid or accompanying the bid, of said corporation or said partnership, there is submitted a statement setting forth the names and addresses of all stockholders in the corporation or partnership who own 10% or more of its stock, of any class or of all individual partners in the partnership who own a 10% or greater interest therein, as the case may be. If one or more such stockholder or partner is itself a corporation or partnership, the stockholders holding 10% or more of that corporation's stock, or the individual partners owning 10% or greater interest in that partnership, as the case may be, shall also be listed. The disclosure shall be continued until names and addresses of every non-corporate stockholder, and individual partner, exceeding the 10% ownership criteria established in this act, have been listed.
2. This act shall take effect immediately.
IT IS MANDATORY THAT THIS FORM BE COMPLETED AND SUBMITTED WITH BID

Vendor Name and Address

Stockholder's Name and Percentage of Ownership

Stockholder's Name and Percentage of Ownership

Stockholder's Name and Percentage of Ownership

Use reverse side of sheet for other stockholders

_____ No individual stockholder or partner owns 10% or more of this corporation or partnership.

by _____ (Name of Contractor) _____ (Signature of Authorized Officer)

Subscribed and sworn to before me
this _____ day of _____, 20____ Affix Notary Seal:

(Notary Public's Signature)

My Commission expires: _____.

This prerequisite form must be completed, signed, sealed, and returned with your bid.

Middlesex County College
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN

PART 1: CERTIFICATION

BIDDERS MUST COMPLETE PART 1 BY CHECKING EITHER BOX.

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury’s Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list is found on the Division’s website at <http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Bidders **must** review this list prior to completing the below certification. If the Director finds a person or entity to be in violation of law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

PLEASE CHECK EITHER BOX:

I certify, pursuant to Public Law 2012, c. 25, that neither the person/entity listed above nor any of the entity’s parents, subsidiaries, or affiliates is **listed** on the N.J. Department of the Treasury’s list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 (“Chapter 25 List”). I further certify that I am the person listed above, or I am an officer or representative of the entity listed above and am authorized to make this certification on its behalf. **I will skip Part 2 and sign and complete the Certification**

OR

I am unable to certify as above because I or the bidding entity and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department’s Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

Part 2

PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

You must provide a detailed, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the boxes below.

PROVIDE INFORMATION RELATIVE TO THE ABOVE QUESTIONS. PLEASE PROVIDE THOROUGH ANSWERS TO EACH QUESTION. IF YOU NEED TO MAKE ADDITIONAL ENTRIES, USE ADDITIONAL PAGES

Name: _____ Relationship to Bidder/Vendor: _____

Description of Activities: _____

Duration of Engagement: _____ Anticipated Cessation Date _____

Bidder/Vendor _____

Contact Name: _____ Contact Phone Number: _____

Certification: I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the below-referenced person or entity. I acknowledge that Middlesex

County College is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of contracts with the College to notify the College in writing of any changes to the answers of information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreements(s) with Middlesex County College and that the College at its option may declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): _____ Signature: _____

Title: _____ Date: _____

Bidder/Vendor: _____

SECTION 01 31 00
PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Administrative and supervisory personnel.
 - 2. Project meetings.
 - 3. Requests for Interpretation (RFIs).
 - 4. **Temporary Heating**

1.3 COORDINATION

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations included in different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair.
- B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's Construction Schedule.
 - 2. Preparation of the Schedule of Values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings.
 - 6. Preinstallation conferences.
 - 7. Project closeout activities.
 - 8. Startup and adjustment of systems.
 - 9. Project closeout activities.

1.4 SUBMITTALS

- A. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home and office telephone numbers. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project.
1. Post copies of list in Project meeting room, in temporary field office, and by each temporary telephone. Keep list current at all times.

1.5 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 3. Minutes: Record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within four days of the meeting.
- B. Progress Meetings: Conduct progress meetings at biweekly intervals. Coordinate dates of meetings with preparation of payment requests.
1. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Sequence of operations.
 - 2) Status of submittals.
 - 3) Temporary facilities and controls.
 - 4) Hazards and risks.
 - 5) Status of correction of deficient items.
 - 6) Field observations.
 - 7) RFIs.
 - 8) Pending changes.
 - 9) Status of Change Orders.

2. Minutes: Architect will record and distribute to Owner and Contractor the meeting minutes.
3. Reporting: Distribute minutes of the meeting to each party present and to parties who should have been present.
 - a. Schedule Updating: Revise Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

1.6 REQUESTS FOR INTERPRETATION (RFIs)

- A. Procedure: Immediately on discovery of the need for interpretation of the Contract Documents, and if not possible to request interpretation at Project meeting, prepare and submit an RFI in the form specified.
 1. RFIs shall originate with Contractor. RFIs submitted by entities other than Contractor will be returned with no response.
- B. Content of the RFI: Include a detailed, legible description of item needing interpretation and the following:
 1. Project name.
 2. Date.
 3. Name of Contractor.
 4. Name of Architect.
 5. RFI number, numbered sequentially.
 6. Specification Section number and title and related paragraphs, as appropriate.
 7. Drawing number and detail references, as appropriate.
 8. Field dimensions and conditions, as appropriate.
 9. Contractor's suggested solution(s). If Contractor's solution(s) affect the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 10. Contractor's signature.
- C. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Include the following:
 1. Project name.
 2. Name and address of Contractor.
 3. Name and address of Architect.
 4. RFI number including RFIs that were dropped and not submitted.
 5. RFI description.
 6. Date the RFI was submitted.

PART 2 - PRODUCTS

2.1 TEMPORARY HEATING EQUIPMENT

- A. **HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.**
 - 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
 - 2. Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
 - 3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction.

PART 3 - EXECUTION

3.1 TEMPORARY UTILITY INSTALLATION

- A. **Heating: Provide temporary heating required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures. Select equipment that will not have a harmful effect on completed installations or elements being installed.**
- B. **Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.**
 - 1. Prior to commencing work, isolate the HVAC system in area where work is to be performed according to coordination drawings.
 - a. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.
 - b. Maintain negative air pressure within work area using HEPA-equipped air-filtration units, starting with commencement of temporary partition construction, and continuing until removal of temporary partitions is complete.
 - 2. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
 - 3. Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.
 - 4. Supervise combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 - 5. Maintain operation of temporary enclosures, heating, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

END OF SECTION 01 31 00

SECTION 07 41 13
ALUMINUM EQUIPMENT SCREEN PANELS

1.0 GENERAL.

1.1 DESCRIPTION.

- A. Work described in this section includes preformed metal wall panel system complete with clips, perimeter and penetration flashing, closures, gutters, and downspouts.
- B. Related work specified elsewhere:
 - 1. Structural steel.
 - 2. Metal fabrications.
 - 3. Flashing and sheet metal (not wall panel related).

1.2 SUBMITTALS.

- A. Shop drawings: Show wall panel system with flashings and accessories in plan and elevation; sections and details. Include metal thicknesses and finishes, panel lengths, joining details, anchorage details, flashings and special fabrication provisions for termination and penetrations. Indicate relationships with adjacent and interfacing work. Shop drawings to be prepared by metal wall panel manufacturer.
- B. Warranty: Provide unexecuted specimen warranty documents for each warranty as required in specification section 1.7.
- C. Samples.
 - 1. Submit sample of panel section, at least 6" x 6" showing seam profile and also a sample of color selected.
 - 2. Submit sample of panel clip.

1.3 DELIVERY, STORAGE, AND HANDLING.

- A. Inspect materials upon delivery.
- B. Handle materials to prevent damage.
- C. Store materials off ground providing for drainage; under cover providing for air circulation; and protected from any debris.

1.4 REFERENCE STANDARDS.

- A. American Iron and Steel Institute (AISI):
 - 1. SG02-1: 2001 Edition of the North American Specification for the Design of Cold-Formed Steel Structural Members.
- B. American Society for Testing and Materials (ASTM):
 - 1. B69-08: Standard Specification for Rolled Zinc.
 - 2. B209-07: Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

3. D1056-07: Specification for Flexible Cellular Materials – Sponge or Expanded Rubber.
 4. D3575-08: Test Method for Flexible Cellular Materials made from Olefin Polymers.
 5. E283-04: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
 6. E330-02: Standard Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
 7. E331-00 (2009): Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
 8. E1886-05: Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
- C. Sheet Metal and Air Conditioning Contractors National Association (SMACNA):
1. Architectural Sheet Metal Manual, 5th edition.

1.5 QUALITY CRITERIA.

- A. Engage an experienced metal wall panel contractor to install wall panel system who has a minimum of three (3) years experience specializing in the installation of metal wall panel systems.
- B. Successful contractor must obtain all components of wall panel system from a single manufacturer. Any secondary products that are required which cannot be supplied by the specified manufacturer must be recommended and approved in writing by primary manufacturer prior to bidding.
- C. Fabricator/Installer shall submit work experience and evidence of adequate financial responsibility. Architect reserves the right to inspect fabrication facilities in determining qualifications.
- D. Applicable erection tolerances: Maximum variation from true planes or lines: 1/4" in 20'-0"; 3/8" in 40'-0" or more.

1.6 DESIGN AND PERFORMANCE CRITERIA.

- A. Thermal movement:
 1. Interface between panel and clip shall provide for unlimited thermal movement in each direction along the longitudinal direction.
 2. Location of metal wall panel rigid connector shall be designed, per job condition, by the wall panel system manufacturer.

- B. Uniform Wind Load Capacity.
 - 1. Installed wall panel system shall withstand positive and negative wind pressures complying with the following criteria.
 - a. Design Code: ASCE 7, Method 2 for Components and Cladding.
 - b. Safety Factor: The panel system shall withstand a “proof load” equal to 150% of the design wind pressure, as per the ASTM E330 testing standard.
 - 2. Capacity shall be determined using defined method in accordance with ASTM E330.
- C. Missile Impact Test and Cyclic Wind Pressure Test: The panel system shall be tested in accordance with ASTM E1886 and E1996 or FBC Test Protocols TAS 201 and TAS 203>.

1.7 WARRANTIES.

- A. Endorse and forward to owner the following warranties:
 - 1. Manufacturer's standard 25-year finish warranty covering checking, crazing, peeling, chalking, fading, and adhesion.
 - 2. Manufacturer's standard 25-year material warranty covering aluminum base material.
 - 3. Installer's 2-year warranty covering wall panel system installation.
- B. Warranties shall commence on date of substantial completion.

2.0 PRODUCTS.

- A. METAL WALL PANEL SYSTEM.
 - 1. Panel shall be IMETCO Latitude #LW12S3-6 Wall system as manufactured by Innovative Metals Company, Inc. (IMETCO), Norcross, Georgia, telephone: 1.412.670.9277, contact: Brett Younger.
 - 2. Approved Equal
- B. Materials.

Panel materials: 0.050” aluminum, 3105-H14 aluminum alloy, per ASTM B209

 - 1. Flashing and flat stock material: Fabricate in profiles indicated on drawings of same material, thickness, and finish as wall panel system, unless indicated otherwise.
- C. Finish on exposed surfaces.
 - 1. Two coat coil applied, baked-on full-strength (70% resin) fluorocarbon coating system (polyvinylidene fluoride, PVF2), applied by manufacturer's approved applicator.

2. Coating system shall provide nominal 1.2 mil dry film thickness, consisting of primer and color coat.
 - a. Color shall be selected from Imetco's Standard Colors.
3. Unexposed surfaces of painted steel or aluminum materials shall be baked-on polyester coating with .20 - .30 mil total dry film thickness (TDF).

D. Characteristics.

1. Fabrication: Panels shall be factory formed from specified metal.
2. Profiles shall be as indicated project drawings.
3. The standard profile shall be LW12S3-6 with provided 3" deep symmetric ribs at 6" on center. . All joints shall receive a 6" concealed splice plate with 3/8" minimum joint between adjacent panels to allow for expansion and contraction of panels. Overlapping joints will not be allowed.
 - a. Web elements of the ribs shall be of symmetrical angle.
4. Panel orientation: Horizontal.
5. Configuration: Panel shall be 12" (nominal) with interlocking seams incorporating concealed anchor clips allowing thermal movement.
6. Panel Depth (Concealed Leg Height): 3" (nominal).
7. Anchor clips: Clips shall be 18 gauge galvanized steel designed to allow thermal movement of the panel in each direction along the longitudinal dimension.
8. Panel length: Up to 20 feet maximum length.
9. Corners: Precision Edge factory-mitered corner components.

E. Accessories.

1. Fasteners.
 - a. Concealed fasteners: Corrosion resistant steel screws, #14 x length appropriate for substrate, hex washer head. Use self-drilling, self-tapping for metal substrate or A-point for plywood substrate.
 - b. Exposed fasteners: 300 series stainless steel screws (cadmium or zinc coatings are not acceptable) with neoprene sealing washer, or 1/8" diameter stainless steel rivets.
2. Precision Edge mitered corners: inside and outside corners shall be factory mitered and permanently joined from prefinished materials. All joints shall receive a 6" concealed splice plate with 3/8" minimum joint between adjacent panels to allow for expansion and contraction of panels. Overlapping joints will not be allowed.
3. Provide all miscellaneous accessories for complete installation.

2.2 FABRICATION.

- A. Shop fabricate metal wall panels and flashing components to the maximum extent possible, forming metal work with clear, sharp, straight, and uniform bends and rises. Hem exposed edges of flashings.

- B. Form flashing components from full single width sheet in minimum 10'-0" sections. Provide shop fabricated, mitered corners, joined using closed end pop rivets and joint sealant.
- C. Fabricate wall panels and related sheet metal work in accordance with approved shop drawings and applicable standards.

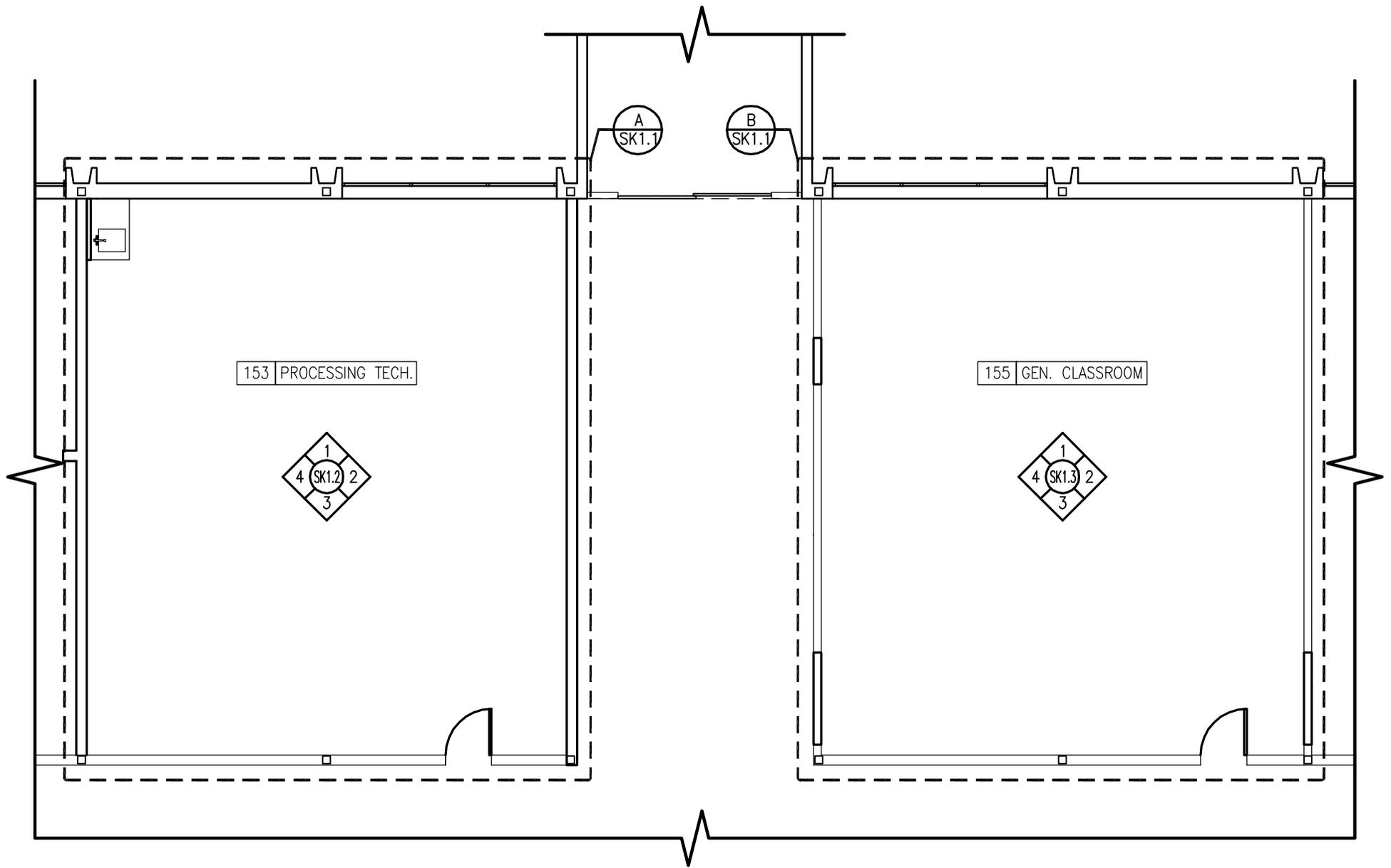
2.3 PREPARATION.

- A. Inspection: Examine the alignment and placement of the building structure and substrate.
- B. Correct any objectionable warp, waves or buckles in the substrate before proceeding with installation of the preformed metal wall panels.

2.4 WALL PANEL AND FLASHING INSTALLATION.

- A. Install wall panels and flashings in accordance with approved shop drawings and manufacturer's product data, within specified erection tolerances.
- B. Isolate dissimilar metals and masonry or concrete from metals with bituminous coating. Use gasketed fasteners where required to prevent corrosive action between fastener, substrate, and panels.
- C. Limit exposed fasteners to extent indicated on shop drawings.
- D. Anchorage shall allow for temperature expansion/contraction movement without stress or elongation of panels, clips, or anchors. Attach clips to substrate using fasteners of size and spacing as determined by manufacturer's design analysis to resist specified wind pressure and thermal movement forces.
- E. Seal laps and joints in accordance with wall panel system manufacturer's product data.
- F. Coordinate flashing and sheet metal work to provide weathertight conditions at wall panel terminations. Fabricate and install in accordance with standards of SMACNA Manual.
- G. Provide for temperature expansion/contraction movement of panels at wall panel penetrations and wall panel mounted equipment, in accordance with system manufacturer's product data and design calculations.
- H. Installed system shall be true to line and plane and free of dents, and physical defects.
- I. Form joints in linear sheet metal to allow for 1/4" minimum expansion at 20'-0" o.c. maximum and 8'-0" from corners.
- J. At joints in linear sheet metal items, set sheet metal items in two 1/4" beads of butyl sealant. Extend sealant over all metal surfaces. Mate components for positive seal. Allow no sealant to migrate onto exposed surfaces.
- K. Clean exposed surfaces of wall panels and accessories after completion of installation. Leave in clean condition at date of substantial completion. Touch up minor abrasions and scratches in finish.

END OF SECTION 07 41 13



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PROPOSED IMPROVEMENTS FOR
MIDDLESEX COUNTY COLLEGE:
MAIN HALL SCIENCE
WING RECONSTRUCTION
2600 WOODBRIDGE AVENUE
EDISON, NEW JERSEY, 08818
BLOCK: 396 LOT: 3.B

CLASSROOM
KEY PLAN
SHEET INDICATOR

SCALE: NTS

WB
PROJECT MANAGER

RS
DRAWN BY

7062
PROJECT NUMBER

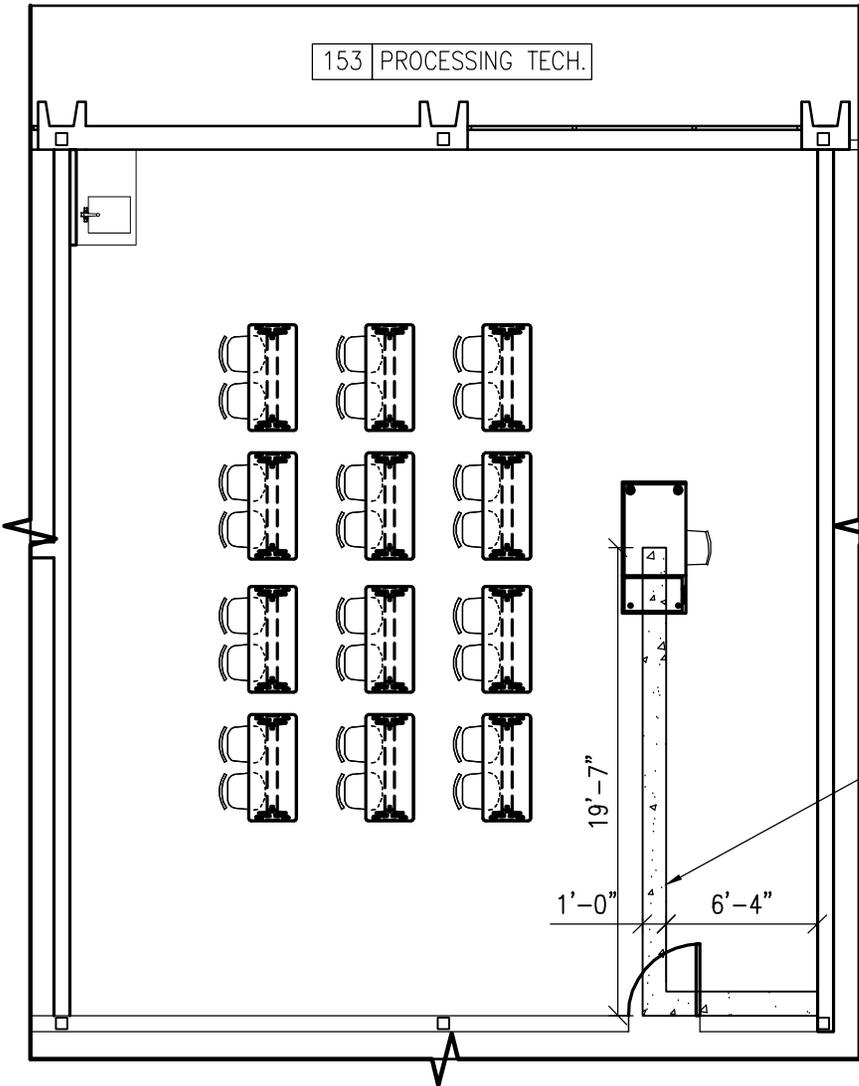
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SHEET NUMBER

SK0.1

153 PROCESSING TECH.



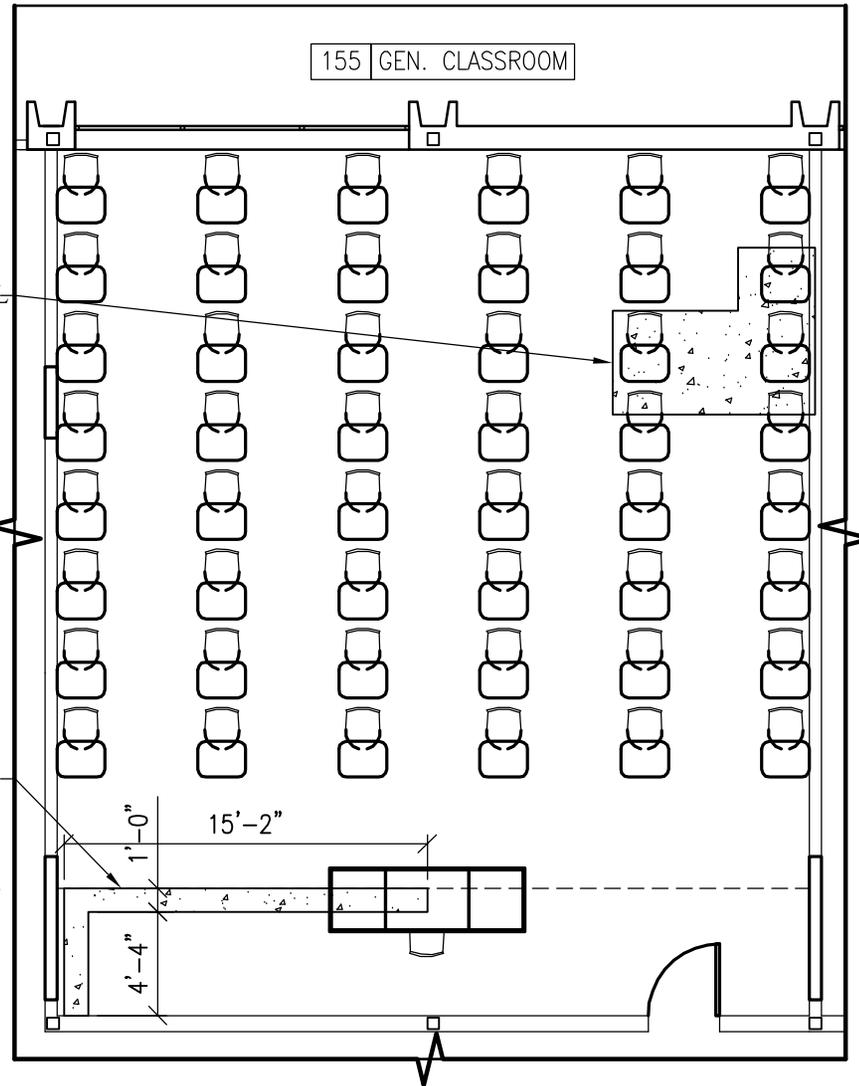
SHOWN IN ORIGINAL BID DOCUMENTS

HATCH INDICATES AREAS OF SAWCUTTING AND INFILL. REFER TO "SLAB TO EXISTING" DETAIL ON SHEET A6.01 FOR MORE INFORMATION.

A 153 PROCESSING TECH.

NTS

155 GEN. CLASSROOM



B 155 GENERAL CLASSROOM

NTS

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ADDITIONAL TRENCHING LOCATIONS

SCALE: NTS

WB
PROJECT MANAGER

RS
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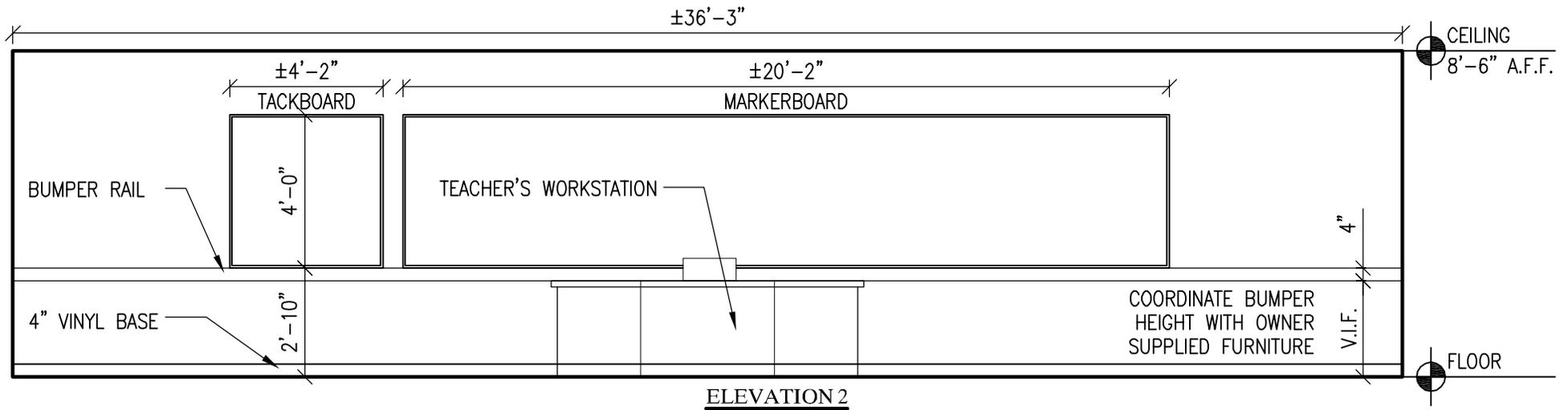
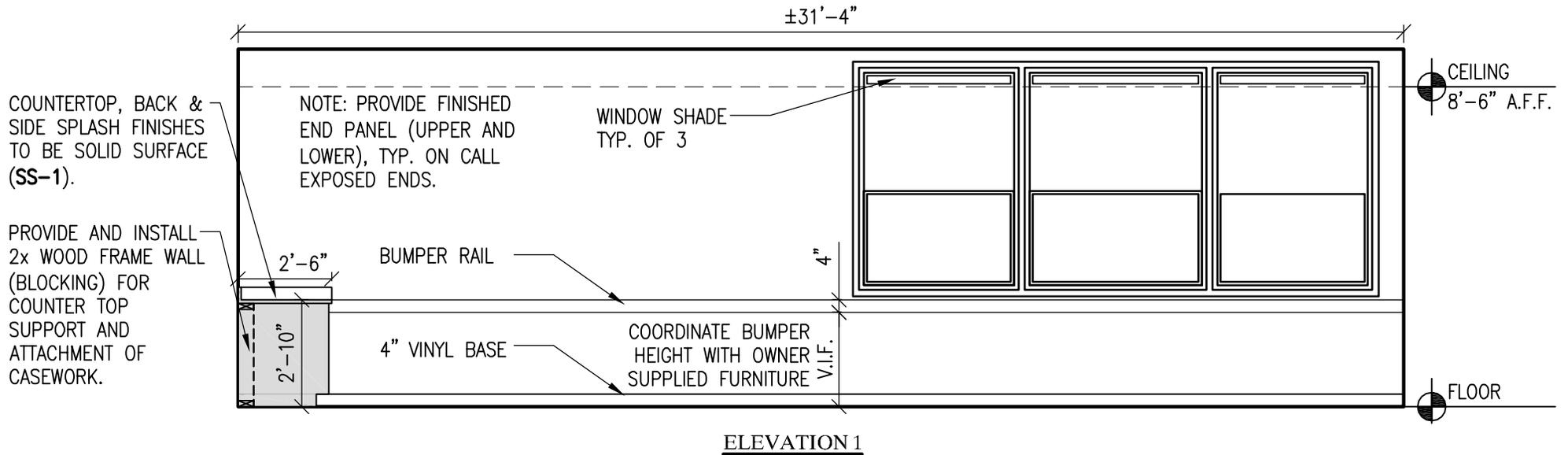
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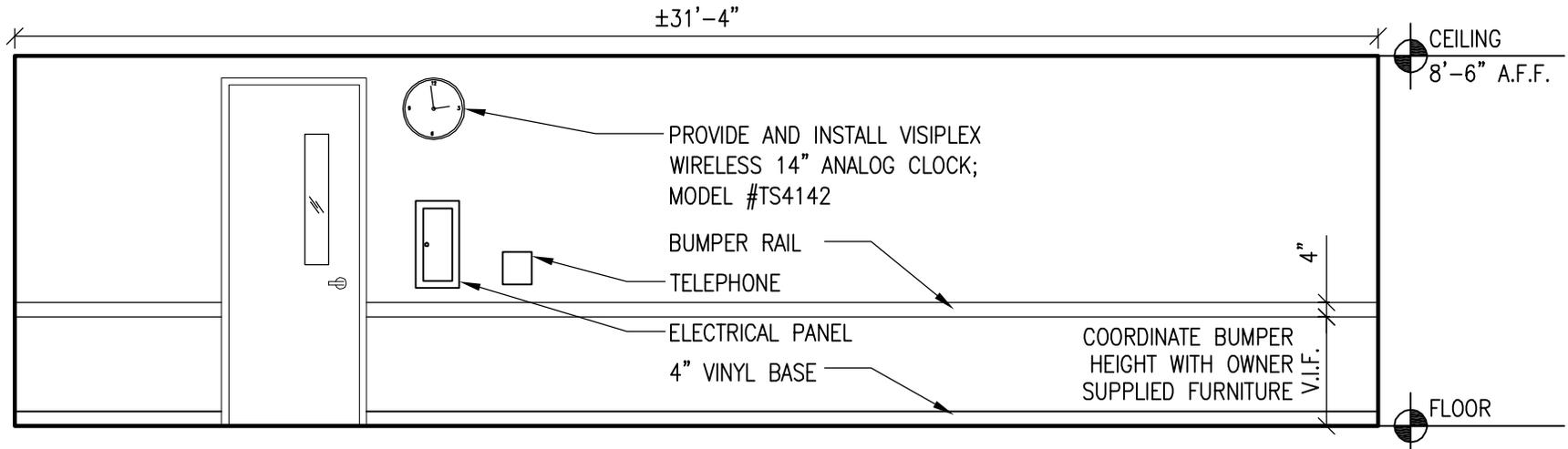
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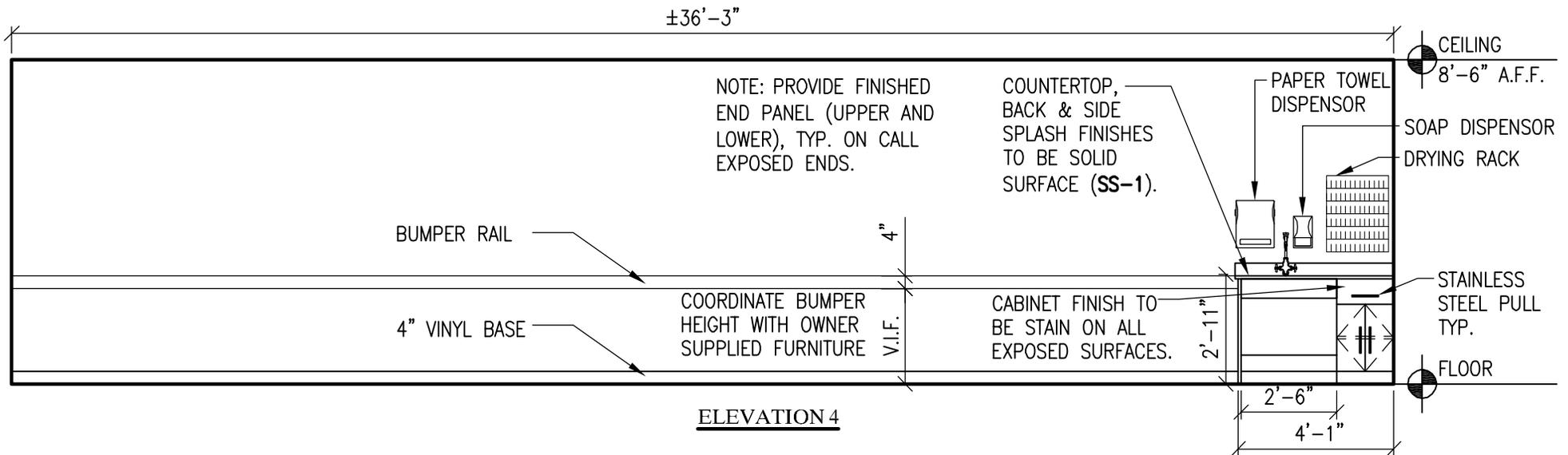
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ELEVATION 3



ELEVATION 4

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CLASSROOM 153 ELEVATIONS

SCALE: NTS

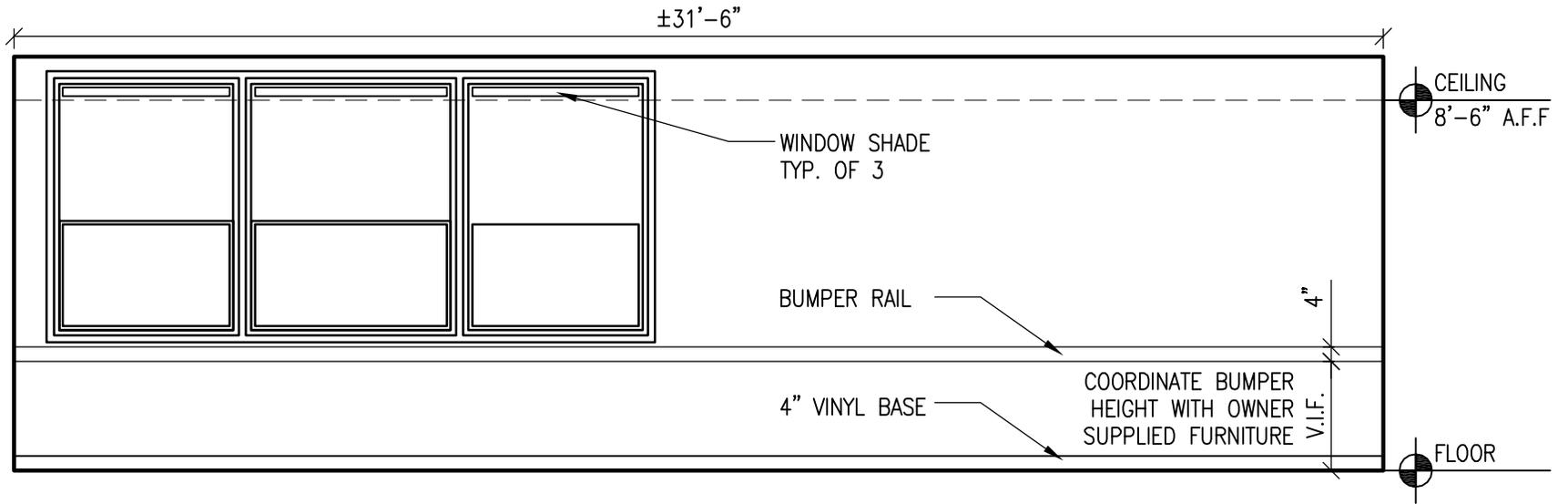
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7062 PROJECT NUMBER

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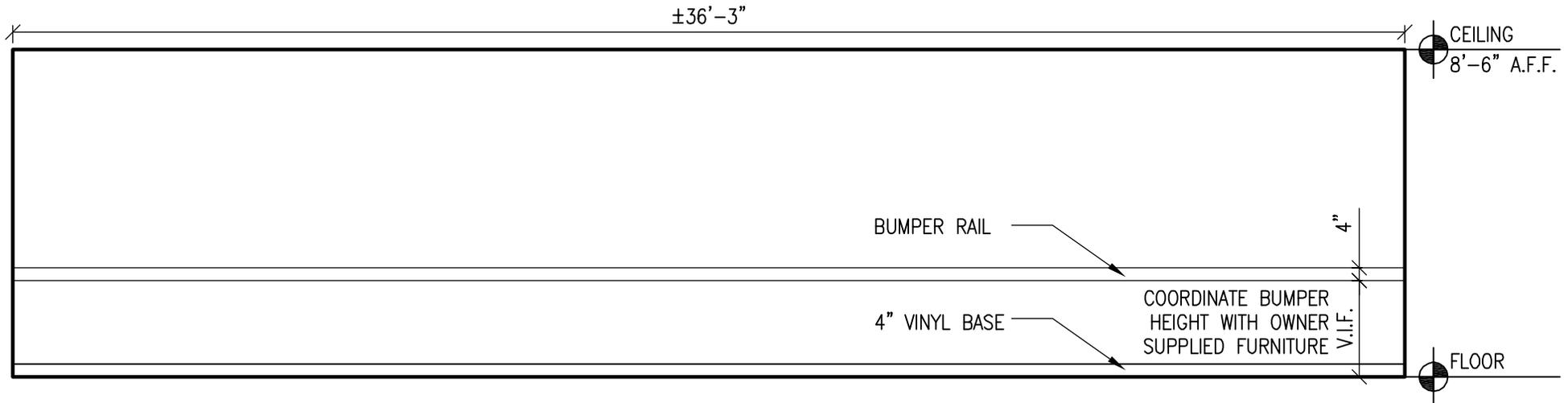
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SHEET NUMBER

SK1.2.2



ELEVATION 1



ELEVATION 2

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CLASSROOM 155 ELEVATIONS

SCALE: NTS

WB
PROJECT MANAGER

RS
DRAWN BY

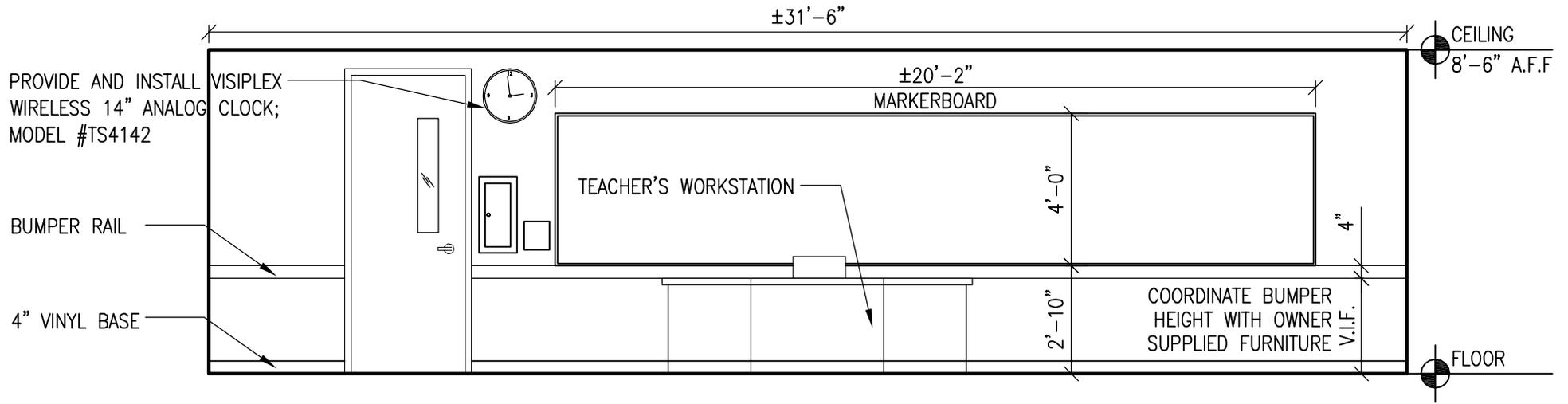
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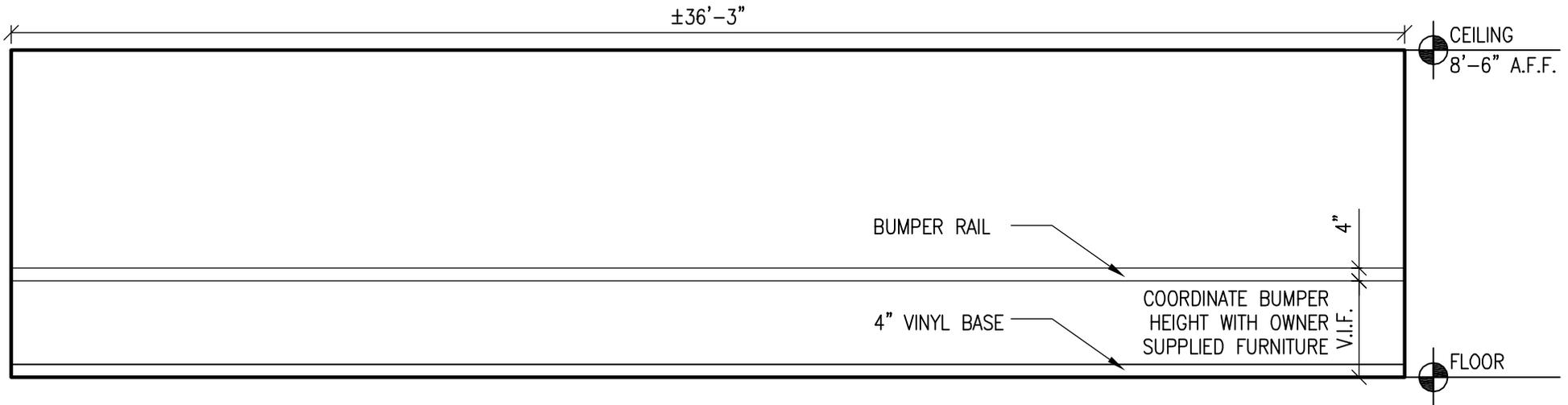
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SHEET NUMBER

SK1.3.1



ELEVATION 3



ELEVATION 4

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CLASSROOM 155 ELEVATIONS

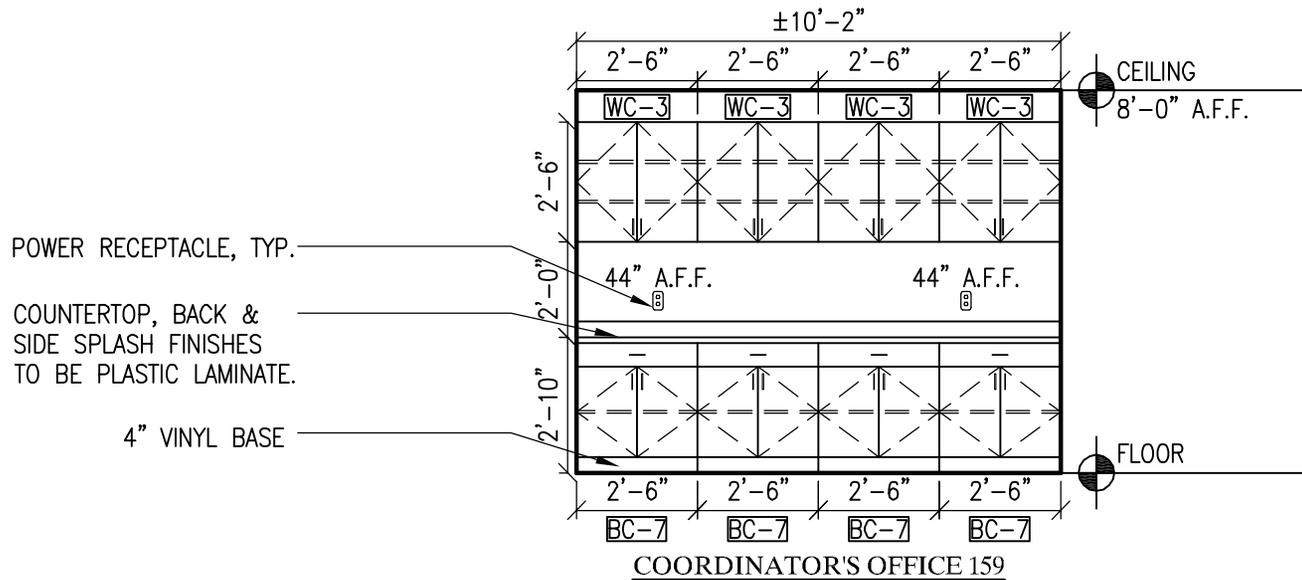
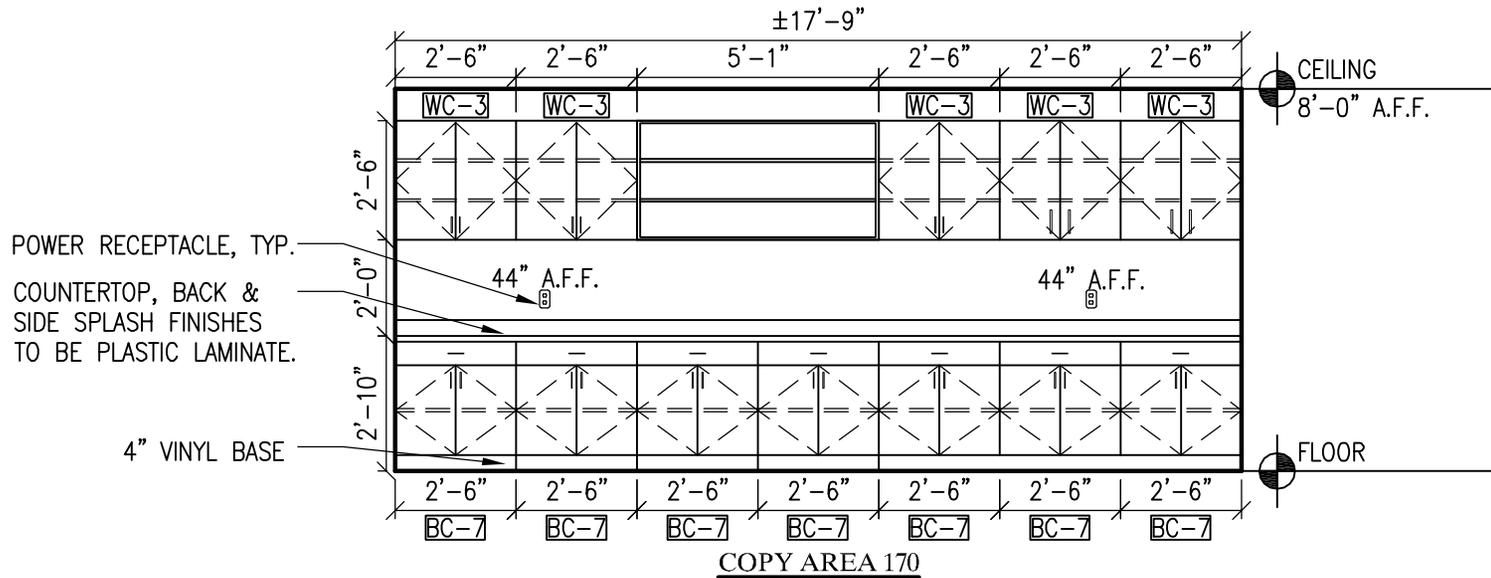
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**** NOTES:**

- 1.) COUNTERTOP TO BE TWO LAYER 3/4" MDF BOARD WITH PLASTIC LAMINATE FINISHED SURFACES. BACK AND SIDE SPLASHES TO BE ONE LAYER 3/4" MDF BOARD WITH PLASTIC LAMINATE FINISHES.
- 2.) BC-7 HAS BEEN ADDED AS ADDITIONAL CASEWORK. BC-7 IS CAMPBELL RHEA MODEL #3685C.
- 3.) REFER TO CASEWORK SCHEDULE FOR WC-3 INFORMATION.

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CASEWORK
CLARIFICATION

SCALE: NTS

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