

Prepared By:

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ADDENDUM NO. 3

**FOR THE CONSTRUCTION OF THE
SUNY BROOME CULINARY ARTS CENTER**

AT

**78 Exchange Street
Binghamton, NY 13905**

Items to be Included in Project

Contract bidders of record for the subject project are hereby informed that this Addendum forms a part of the contract and will be amended as contained below and as attached or indicated herein. Receipt of the Addendum shall be acknowledged on the Proposal Form.

These changes are to be incorporated into the Construction Documents and shall apply to the Work with the same meaning and force as if they had been included in the original documents. Wherever this Addendum modifies a portion of a paragraph of the Project Manual, or portion of any Drawings, the remainder of the paragraph or Drawing shall remain in force.

CHANGES TO SPECIFICATIONS:

1. Replace the following specification sections with the revised copies, attached.
 - a. Section 01 50 00 Temporary Facilities and Controls
2. Specification Section 27 10 05 Structured Cabling for Voice and Data - Inside Plant - Part 2 Products:
 - a. Add 2.9 Projection Screen
 - A. Provide and install ceiling mounted, recessed projection screen in Room 006 & Room 213.
 1. Basis-of-Design is DA-LITE, Wide (16:10) Format Screen, 60"x96" (HxW), 120V.
 2. Screen shall have HD Progressive 0.9 viewing surface.
 3. Provide each screen with a WC-200 Wall Controller.
 - a. Provide cabling to controller location (TBD in field).
3. Specification Section 26 36 00 Transfer Switches - Part 2.2 E 1 to read:
 - a. Basis of Design Product(s): Generac Power Systems; www.generac.com/industrial. Generac HTS Series Automatic Transfer Switch, Selectable Open In-Phase/Delayed Transition designed for operation with Power Manager H-100 generator controller.

CHANGES TO DRAWINGS:

1. Drawing Sheet E-402:
 - a. Revise the Tiered Demo Kitchen Enlarged Plan per E-SK-09.
2. Drawing Sheet M-002: Please change the following VRF Outdoor Unit Selections to the following:

HP-2 - ARUM121BTE5, 95,100 cooling btuh, 90,400 heating btuh, 1 compressor, 24.6 IEER, 3.46 COP, 30.9 MCA, 40 MOP, 507lbs.

HP-8 - ARUM336BTE5, HP-8A- ARUM216BTE5, HP-8B - ARUM121BTE5, 268,300 cooling btuh, 253,000 heating btuh, 20.5 IEER, 3.52 COP, HP-8A 60.3 MCA, 80 MOP, HP-8B 30.9 MCA, 40 MOP, HP-8A 666 lbs, HP-8B 507 lbs.
3. Drawing Sheet S-103 modify note referring to neighboring existing building:
 - a. Existing building foundations, locations shown approx. G.C. to field verify locations and report to engineer. Do not undermine existing foundations. The assumed condition is that no temporary excavation protection system is required. If the potential for undermining is discovered to exist alert the engineer for review. The G.C. will then be required to design and install a temporary excavation protection system to prevent any vertical or horizontal movement of the existing foundations. Such system is to be designed by a NYS licensed engineer, who has at least five years experience designing such systems. Submit shop drawings and calculations for review prior to construction.

OTHER ITEMS:

1. Requests for Information:
 - a. Refer to RFI Log, posted on the Architect's website. Questions and answers contained therein additionally modify the contract documents and are here by incorporated by being made a part of this Addendum.

END OF ADDENDUM #3

RFI Report - Open

PROJECT: SUNY Broome Culinary Arts Center - Expanded
 MANAGER: Steven Trobe
 PREPARED BY: Tim Geier
 DATE: 2/9/2018



ID	From	Subject	Question	Suggestion	Received
BID-057	Bill Besser (Postler & Jaekle Corp)	Openings	<p>Please clarify the scope and responsibility for the cutting and patching of the penetrations of the walls and floors for ductwork and grilles. Drawing S503 shows that the GC is responsible for cutting / patching and supporting these items after the Mech contractor lays out the required openings. A RFI response states that each contractor requiring a penetration is responsible.</p> <p>Is the Mech contractor requiring a cored hole in the wall or floor supposed to do this work and then hand over the sleeve to the GC to install per item 116 in the GC scope?</p>	<p>To clarify: The previous answer was in response to a question on plaster repair. The intent was that if there is minor cutting that is required that is not shown on the structural drawings, the trade contractors are required to make their cuts in a workman like manner as to not be excessive. If the cutting and removal is found to be excessive it will be the responsibility of the trade to accommodate the required repairs. The plaster patching required, provided by the GC, should be considered a part of the repair areas shown on the Demolition Drawings.</p> <p>The major floor penetrations, as shown on the structural drawings, will be completed through a coordinated effort as described on sheet S-503.</p>	2/8/2018
BID-054	Joe Fantasia (Penn Power Group)	Generator Substitution	Will you accept MTU generators and ASCO transfer switches for the project specified above? We have been asked by some contractors to quote.	The Engineer will consider requests for "Equal" substitutions as long as they meet or exceed the performance requirements of the specified product specifications, and specification section 01 25 00 Substitution Procedures.	2/8/2018
BID-053	Roger Pendell (Upstate Companies 1, LLC)	Alternate EC-5	Plan Sheet E-100 Key note 2 calls out alternate EC-5. Seen again on E-102 first key note 3 Is this a typo or another alternate not on the bid sheet	Refer to RFI BID-041. There is no Alternate EC-5.	2/8/2018
BID-051	Jeanette Hough	Epoxy Painting	Could you tell me what areas of this project are to receive epoxy paint?	Refer to A-812 for the room finish schedule and 09 00 00 for the Finish Selections Specification.	2/8/2018
BID-050	Justin Woodnorth (Fahs Construction Group)	Temporary Shoring	Drawing S-100, "Existing building foundations, locations shown approx. GC to field verify location and report to engineer. Do not undermine existing foundations. GC to design and install a temporary excavation protection system to prevent any vertical or horizontal movement of the existing foundations." Due to the unknown conditions and location of the adjacent foundations I requesting that an allowance be made for the temporary shoring system for bidding purposes.	The contractors notes are just as a reference to the contractor that there may be changes to the defined work or additional work depending on the conditions uncovered during construction. We have designed around the assumed conditions any changes as determined by the unknown conditions will be handled as described in the specifications.	2/8/2018
BID-049	Merlin Hertzog (Williams Doors & Hardware (WBE))	Door Questions	<ol style="list-style-type: none"> Could you see where door number 104E is indicated in the door hardware schedule. That door number does not show up on the door schedule. After looking over addendum number 2 under the stile and rail page 3 of 8 part 2.1 indicates door wood species to be South American Mahogany. The next page 4 of 8 part 2 section 2.1C indicates White oak. The next page 5 of 8 Part 2.3B indicates doors wood species to be Africa Mahogany plain sawn. 	<ol style="list-style-type: none"> Door 104E has been removed from the project. Please remove it from the schedule. Provide White Oak for the wood species. 	2/8/2018
BID-048	Todd Stroyer (CMI Structural)	Piles	<p>Also, I found this note on the newest plans: "UPLIFT SERVICE CAPACITY - 10 KIPS (ONLY APPLIES AT PILES LOCATED ALONG EXTERIOR OF RETAINING WALL)"</p> <p>Can you tell us how many piles that is? Not exactly sure where the retaining wall is.</p>	This note applies to ALL the piles OUTSIDE the addition perimeter wall which are part of the wall footing (i.e. the piles under the loading dock and the piles under the grid 8 isolated columns are not part of the wall footing piles).	2/7/2018
BID-047	Matthew McKenna (Jeffords Steel and Engineering Company)	Steel height	<p>I'm looking for a section cut or some other indication on the "Low Roof Framing Plan" which will show what height the Posts down/up are supposed to be along the catwalk in the attic space.</p> <p>I see the elevations of the framing members clearly labeled (4'-0"/ 4'-11"/ etc.) But it is not clear to me what the height of the CMU is and what the height of the HSS posts will need to be to support the catwalk framing members at their labelled heights.</p> <p>If I am missing some information I would appreciate if you could supplying the answer, otherwise I hope I am not alone in missing this detail.</p> <p>** Specifically, the 8 HSS posts down that sit on the CMU. **</p>	Top of HSS posts to be at top of steel beams framing into them. Bottom of HSS post elevations to be field verified. The top of CMU walls are currently inaccessible. Field verify prior to fabrication.	2/7/2018
BID-046	Todd Stroyer (CMI Structural)	Backfilling	<p>Todd Stroyer asked me to describe the backfilling work required at areas that are to be underpinned both on the interior and exterior of the building.</p> <p>Should a flowable fill be placed to fill all voids up to the bottom of the existing footing (in and around the new piles and underpinning brackets)?</p> <p>If yes, should compacted granular material or stone be used to backfill above the elevation of the flowable fill? If yes, to what elevation?</p> <p>Could existing excavated material be re-used?</p> <p>Please provide a reply to these questions.</p>	<p>See geotechnical report for specific acceptable materials and recommendations.</p> <ul style="list-style-type: none"> Flowable fill can be provided as backfill to the bottom of the footings to help prevent any voids Granular material can be used as backfill all the way to grade. Existing excavated material to not be re-used. See geotechnical report. 	2/7/2018
BID-045	Adnan Mujezinovic (Charles T. Driscoll Masonry Restoration Co. Inc.)	Waterproofing	I have a question on foundation waterproofing The only detail that shows waterproofing on this edition is the detail 1/A-314 Are we reading this right or there is something else	Provide waterproofing at all below grade foundation walls.	2/7/2018
BID-042	Richard Cring (Bette & Cring Construction Group)	Foundation Waterproofing	There does not appear to be any waterproofing shown on the new below grade foundation walls. Is this required. Please advise.	Waterproofing is required below grade.	2/7/2018
BID-041	Roger Pendell (Upstate Companies 1, LLC)	Electrical Questions	<ol style="list-style-type: none"> Drawing Sheet E-100 of addenda 1 shows Alternate EC-5. Is there a new bid form and schedule of alternates to include this? Who is responsible for supplying Cameras? (Typically supply by owner) Who is responsible for supplying WAP? (Typically supply by owner) There is an elevator disconnect(60A-3P) shown on page E-001. What is the location of this? Should this be an ECB with shunt trip capability? Who is responsible for shunt trip controls connection? 	<ol style="list-style-type: none"> There is no Alternate EC-5. Addendum 2 removed the reference. Refer to specifications revisions in Addendum 2. Refer to specification revisions in Addendum 2. The elevator specified is a "Machine Room Less" traction elevator. There hoistway/machinery space is not sprinklered, and therefore shunt trip capability is not required. 	2/7/2018

ID	From	Subject	Question	Suggestion	Received
BID-040	Justin Woodnorth (Fahs Construction Group)	Banner/light pole	Detail 7/A521, indicates a banner pole including illuminating building façade lights. Please clarify what contract is responsible for this work.	The EC is responsible for providing and installing the light poles, banner arms, lights and foundations. Refer to electrical drawings E050, E007 & E500. The GC is responsible for providing the banner signs. Coordinate the banner size with the final pole configuration.	2/5/2018
BID-039	Lukas Kresge (Fahs Construction Group)	Architectural Signage	Whats the size for the signage. Can you send me the drawing so that we could see on this?	Interior signage types are included in Addendum 2. Exterior Banners basis of design: 18"x36" 16 oz. vinyl Full color digital print, double sided Hemmed pole pockets - coordinate size with final pole selection Brass Grommets at each corner Exterior Address Lettering: To be attached to the building over the Exchange Street entry doors "78" is the address number 6" cast aluminum - black	2/5/2018
BID-038	Mark Snashall (Matco Electric Corporation)	VFDs for pumps	The Mechanical Equipment Schedule on M-003 lists an External VFD for Pumps P-3 & P-4. Who is responsible to provide these VFD's?	EC is responsible for the VFD's. See Sketches E-SK-01 and spec section 262923 Variable-Frequency Motor Controllers in this Addendum.	2/5/2018
BID-037	Ray Millard (Evans Mechanical)	Plumbing + HVAC Questions	1. PC - Alternate #2 - Not on bid form 2. Temporary Heat? -Please clarify the cost of fuel Consumption Cost - by owner - Section 01 12 00 Consumption Cost - by contractor- Section 01 50 00 3. Seismic Required? - If yes, we need to know the seismic category? 4. Paint - Section 23 31 00 - 3.2 Refers to painting on ductwork. Confirm that the GC contract is responsible. 5. M-500 Detail #3 - Boiler Schematic- for piping (4") does not match the plan view 2-1/2" on M-400. 6. Which contract provides the kitchen hoods? In the Multiple Contract Summary- Section 114000 - is listed under GC contract and Mechanical contract - Who installs the kitchen hoods and related accessories? 7. P-002 Detail #1- Shows interior trench detail with concrete patching-Drawing D-100 indicates the floor slab removed except South/West corner. The majority (all) of piping is within the slab removal. Does this detail apply for concrete patching? 8. Gas Piping - to be painted - by which contractor? P-000 - Note 21 - indicates Plumbing. Section 09 91 00 - Paint is in GC contract.	1. See revised Bid Form per this Addendum 2. See revised specification sections per Addendum #1 3. No, the project Seismic Classification B, Seismic Site Class is D. Seismic restraints are not required for mechanical and electrical equipment in a building with Seismic Classification B. 4. The mechanical contractor is responsible to paint all exposed ductwork in occupied areas. Refer to specification section 09 91 00 for specific requirements. 5. All Boiler room mechanical hot water supply & return piping should be 2 1/2". 6. The mechanical contractor is responsible for providing and installing the kitchen hoods. 7. Detail is not required as underground piping within the existing footprint is located below newly installed concrete floor as indicated on Structural Plans 8. As specifically listed on P000, painting of gas piping is the responsibility of the Plumbing Contractor. The Plumbing Contractor shall follow Section 09 91 00 with respect to materials and installation/application.	2/5/2018
BID-036	Mark Snashall (Matco Electric Corporation)	Electrical Questions	1. Electrical Key Note #2 / E100; mentions to provide (4) 2/0, #G in 2" GRS Conduit for each Condensing Unit Feed from Panel M1 in HVAC/Fresh Air Room. I don't see the mentioned Condensing Units listed on the M1 Panel Schedule and/or locations shown on E100. Please provide additional information. 2. With how extensive the Cut & Patch of the plaster could be for each trade – can an allowance be assigned for each trade since the pricing associated with this is tough to nail down at this stage and also the trades could easily double up?	1. Omit Key Note #2 on drawing E100. The condensing units were deleted. 2. The cutting required by any trade is to be provided by the trade and should be completed in a workman like manner as to not be excessive. If the cutting and removal is found to be excessive it will be the responsibility of the trade to accommodate the required repairs. The plaster patching required, provided by the GC, should be considered a part of the repair areas shown on the Demolition Drawings.	2/5/2018
BID-035	Lukas Kresge (Fahs Construction Group)	Interiors Questions	1. A112 Fabrication Lab 108A Detail Callouts 2/A610, 3/A610 and 4/A610 are Beverage Lab Elevations. Please advise. 2. Please provide specification for Corner Guards Shown on A112 and other locations. 3. Provide revised 101401 Interior Signage Specification for dimensional letters shown on 8/A618	1. Interior Elevation 4/A-612 refers to A112 Fabrication Lab 108B. Elevation Callouts 2/A610, 3/A610 and 4/A610 refer to Beverage Lab and should be disregarded with respect to Fabrication Lab 108B, however, they still apply to the Beverage Lab. 2. Please refer to Spec Section 09 00 00 - Finish Selections. Basis of Design is called out in this section as WP-1. 3. The lettering shown on 8/A-618 is called out in material, size, and attachment and should be supplied as such.	2/5/2018
BID-034	Mike Rosen (Marvin Windows and Doors of New York)	Window Stain	Reference : Clad Wood Window Specification 085213 Part 2 2.8 B 2 Finish and Drawing page A800 Window Specification states "Stained interior for windows A and F Selected from Manufacturers standard stain colors" but Drawing page A800 Shows windows B , C and H also call for Factory Stained interior . Please clarify which windows are to get a stained interior finish .	Windows A, B, C, F, and H to receive factory stained interior finish	2/5/2018
BID-033	Mike Muldoon (Streeter Associates, Inc.)	Ceiling Questions	· A-129 – What does the 24 x 48 grid represent? o A-812 – Rooms 200, 206, 206, 219 are all shown with this hatch but have varied finish. · A-812 - Room 200 lists act-1 & gyp ceiling. o A-129 - No Gyp ceiling is shown. The hatch shown does not represent the ACT.	A-129 - Rooms 200, 206, and 207 should have a 24 x 24 hatch. Room 219 has no hatch. A-812 - See Addendum #2.	2/2/2018
BID-032	Josh VanValkenburg (Upstate Companies 1, LLC)	Roof drainage	Drawing sheet C103 – Building roof leaders and under drains showing to be discharged into sanitary. Please clarify intent.	The sewer in Congdon Place is a combined sewer.	2/2/2018
BID-031	Mike Mouillesseaux (Daniel J. Lynch, Inc.)	Foundations	Reference Drwg S-100 Foundation Plan: Both the "Contractors Note" located North of the building regarding underpinning, and the "Existing Building Foundations..." note East of the building require exploratory measures to determine what work will be required. Suggest a GC Allowance to cover these work scope items.	The contractors notes are just as a reference to the contractor that there may be changes to the defined work or additional work depending on the conditions uncovered during construction. We have designed around the assumed conditions any changes as determined by the unknown conditions will be handled as described in the specifications.	2/2/2018

ID	From	Subject	Question	Suggestion	Received
BID-030	Rob Sands (Bette & Cring Construction Group)	Questions	<p>1. There does not appear to be a finish door hardware specification included. Please advise</p> <p>2. Is there an offsite staging area that is being provided? It does not appear there is enough room on the job site for the 12x60 CM's/Architects office trailer, storage trailers, dumpsters, and any offices required by the prime contractors.</p> <p>3. Is there an estimate of the building permit cost? The specs call for the GC to pay all cost and it reads like there is supposed to be an attachment but there isn't. Please advise.</p> <p>4. Who is responsible for final cleaning? The schedule shows the owner providing final cleaning, summary of work item 106 shows GC, supplemental conditions item 8 says "broom clean", and the closeout procedures calls for GC to do final cleaning. Please advise.</p>	<p>1. Door Hardware specification is included in Addendum 1.</p> <p>2. We are planning to be able to provide office space within an existing building in close proximity to the site for each prime contractor and the construction manager to use. We will release a complete write-up in Addendum #3 Friday.</p> <p>3. Each bidder is responsible to apply for and obtain the necessary permits required for their specific scope of work. The project is located in the City of Binghamton and the required permits and associated costs can be confirmed by calling the City of Binghamton Construction and Code Enforcement Office at 607-772-7010. There is also information on their website www.binghamton-ny.gov. The General Contractor will be responsible to obtain the building permit and when the estimated construction cost for the entire project is greater than \$20,000 the cost of the building permit is calculated by taking the estimated total cost of construction and multiplying by .75% (or .0075), with maximum fee of \$25,000 for any single, Building Permit.</p> <p>4. The GC is responsible for the final cleaning prior to occupancy which will include windows, wipe downs, broom and vacuum floors, wet mop where necessary, etc. The school will have their own cleaning requirements following occupancy.</p>	2/2/2018
BID-029	Mark Snashall (Matco Electric Corporation)	Grand Stair and Cornerstone Lighting	<p>1. Note 1 / E201; refers you to Drawing A-403 for the quantity of lighting at the Grand Staircase. Drawing A-403 does not show the quantity of lighting? Please provide a sketch or linear footage of Grand Staircase Lighting.</p> <p>2. Note 3 / E201; references LED Strip Lighting within the Time Capsule. Please provide a sketch or linear footage of Time Capsule Lighting.</p>	<p>1. Refer to A-404 for Grand Stair information. The intent is for the light to be installed within the top channel holding the glass to the underside of the stair. There are (2) 10'-0" light strips to be installed in this area.</p> <p>2. Refer to A-405 for Time Capsule Lighting information. There is approximately 10'-0" of light strip to be installed in this area.</p>	2/2/2018
BID-028	Mark Snashall (Matco Electric Corporation)	Shelf Lighting - in Vault	<p>Note 5 / E200; refers you to Drawing A-603 for the quantity of shelf lighting in the Vault.</p> <p>Drawing A-603 does not show the quantity of shelf lighting?</p> <p>Please provide a sketch or linear footage of Shelf Lighting.</p>	Refer to Sheet 1/A-610 and 8,9,10/A-611 for the vault lighting requirements.	2/2/2018
BID-027	Jim Moss (Frontier Glass)	Operable Partition - STC	<p>1) You have listed an STC54 rating. This frameless glass is not sound rated.</p> <p>2) Hufcor has recently announced an aluminum framed glasswall...the "Invista" series if you wanted to consider that to be used here. It can be viewed at www.hufcor.com. This wall is STC33 or STC38 rated.</p>	We understand that the frameless system does not have an STC rating. Remove the STC54 from the specification.	2/2/2018
BID-026	Mark Snashall (Matco Electric Corporation)	Fixture Type G	On ALT EC-3; is there a layout sketch of the Proposed Fixture Type G?	See attached Sketch E-SK-07	2/1/2018
BID-025	Mark Snashall (Matco Electric Corporation)	Electrical Question	<p>Spec 271005-1.6B: mentions that the installers must employ a BICSI Registered Communications Distribution Designer (RCDD).</p> <p>Is the above RCDD requirement a boiler plate spec item OR is the RCDD requirement intended for this project?</p>	The RCDD requirement is not required. The installer must be a manufacturer's certified installer and provide certificates to prove such. Installer must be familiar with and follow the BICSI Telecommunications Distribution Methods Manual (TDMM).	2/1/2018
BID-024	Mark Snashall (Matco Electric Corporation)	Electrical Questions	<p>** To help define the conduit rough-in requirements - Is there a sketch on wiring schematic for the Access Control? Not sure if there is going to be a controller above each door and/or if they are HR back or daisy chained. Might want to provide some clarification in next week's Addendum #2.</p> <p>On the Access Control (Equipment by E.C.??) – Spec 281300-1.1A; mentions....</p> <ul style="list-style-type: none"> · Installation Requirements and low voltage Cabling provided by others; 120V provided by EC; Conduit provided by EC; Is the Equipment (devices) to be carried by the E.C.??; (Spec 2.1) Door Hardware provided by others; (Spec 3.2c) All cabling in EMT Conduit; (Spec 3.3) Programming by CBORD; Per the spec – it sounds like the system is an open spec for approved manufacturers; So this system does not have to match the Front Street Campus System for communication capabilities? <p>** Conduit requirements for CCTV should just be Sleeves since it is a plenum cable installation. We should be good on this.</p> <p>On the Video Surveillance (Equipment by Owner) – Spec 282300-1.1A; mentions...</p> <ul style="list-style-type: none"> · Cameras and recording /viewing equipment provided by others; Cabling provided by E.C. – CAT6 CABLE PER DRAWINGS: (Spec 2.1) Install new video surveillance system – all equipment (not cameras), conduit, boxes, wiring, connectors, hardware, accessories, etc; (Spec 2.2) Cameras, mounting hardware, viewing & recording equipment provided by owner and installed by E.C. <p>** Conduit requirements for Fire Alarm?</p> <p>On the Fire Alarm (Simplex Equipment provided by E.C.) – Spec 283100-3.1; mentions....</p> <ul style="list-style-type: none"> · Conceal all wiring, conduit, boxes, and supports; So is the Fire Alarm installation Stub-ups in walls and plenum cable above ceilings? <p>The previous RFI on Cable Tray was to help define the extent as to which Tray was expected to be installed. Is it only in the Data Closets over the racks (J-Hooks above the ceilings) OR are you thinking a layout throughout each floor level to handle Teledata Cabling and CCTV CAT6 and some Fire Alarm Cabling?</p>	<p>Access Control - Installation of power supplies, control cabinets and cabling is by the EC. All equipment and cabling to be provided by others.</p> <p>Video Surveillance - Cameras also to be installed by the EC.</p> <p>Fire Alarm - Fire alarm installation shall be in conduit. Cable tray shall not be utilized.</p>	2/1/2018
BID-023	Mark Snashall (Matco Electric Corporation)	Electrical Questions	<p>1. There are PA Speakers shown on the Electrical Drawings. Is there a spec for PA System?</p> <p>2. Looking at Drawing M-400 / Detail 3; will it be permissible to run electrical circuitry across the Skylight Structure to get from one side of the Kitchen to the other?</p> <p>3. There is a Cable Tray Spec (260536) but no Cable Tray Layout shown on the drawings. For what systems is Cable Tray intended? For what areas is Cable Tray intended?</p> <p>4. Would like additional Clarification on the NYSEG Electrical Allowance (012100). The description of the Allowance (012100-3.3) states that it is not intended to cover Electrical Usage Charges (Consumption Costs). Who is responsible for Utility Usage Charges? Also; Is the NYSEG Electrical Allowance intended to cover the costs from NYSEG for Systems Upgrades or Modifications as noted on E001?</p> <p>5. Neither the Site Electrical Drawing (E050) nor the Civil Utility Plan (C103) show the locations for the Electrical Service or the Telephone/Internet Services. Please provide a sketch showing the all applicable Electrical Services for the project.</p>	<p>1. No. The speakers are connected to a local A/V rack.</p> <p>2. No. Conduit/circuitry cannot cross the open skylight area. Conduits and circuitry shall cross from one side to another in soffit areas beyond the skylight.</p> <p>3. Cable tray is for data and a/v cabling. See revised cable tray specification in this Addendum.</p> <p>4. EC is responsible for utility usage charges. NYSEG Electrical allowance is for system upgrades and/or modifications and for NYSEG secondary termination charges.</p> <p>5. Refer to Sketch E-SK-08 in this addendum. Both NYSEG and Verizon services originate in/under Exchange Street. Coordinate exact locations with NYSEG (607-762-5688, service request notification #10300212702) and Verizon (607-432-9901).</p>	2/1/2018

ID	From	Subject	Question	Suggestion	Received
BID-022	Adriano Giammarino (Andrew R. Mancini Assoc. Inc.)	Exterior Signage	Spec and drawings do not indicate the exact material for the banners (4) and the address numbers (1 set). We need to know what the address numbers are made of (material, height, depth, mounting height/surface). I assume the address # will be "78". Can this be confirmed?	Exterior Banners basis of design: 18"x36" 16 oz. vinyl Full color digital print, double sided Hemmed pole pockets - coordinate size with final pole selection Brass Grommets at each corner Exterior Address Lettering: To be attached to the building over the Exchange Street entry doors "78" is the address number 6" cast aluminum - black	2/1/2018
BID-021	Adriano Giammarino (Andrew R. Mancini Assoc. Inc.)	Steel Certification	In reviewing the specs for the above referenced project, in section 1.4 of the structural steel specifications it calls for fabricators to be "qualified steel fabricators that are accredited by the international accreditation service." Is AISC fabricator certification same and/or acceptable or is IAS certification required?	AISC certification, BU: Certified Building Fabricator, is acceptable in lieu of IAS certification.	2/1/2018
BID-020	Don Huling (Binghamton Plate Glass)	Glass Questions	1. Please provide specifications for: a. FRP DOORS 013A, 013B and 117B a. ALUMINUM DOOR HARDWARE a. FRAMELESS GLASS WALLS AND FRAMELESS GLASS DOORS 2. What type of framing is required at "EE"? Is this 1/2" tempered glass? 3. Will an updated door schedule be issued that provides hardware set numbers? 4. On Dwg. A-800 glass type GL-H is noted to be textured. This glass type is not listed in spec. section 08 80 00, please provide information on the textured glass required. 5. Costs vary for "pattern" glass - what pattern is required? 6. For the glass partition wall that extends up into the large skylight (see 1/A303, 2/A303, 15/A802) between Event 209 and Tiered Demo. Kitchen 208 how should the glass be cut around existing steel members that may pass through this partition? Is there any concern about possible deflection of the skylight framing that could harm the glass?	1. FRP doors are being reviewed. The door hardware is included in Addendum 1. 2. See revised Glazing specification in Addendum 1. 3. Yes, see Addendum #1. 4. Yes, see Addendum #1. 5. Yes, see Addendum #1. 6. The interior glazing - SS is to have U-framing around the steel beams and at the head and base to account for deflection.	1/29/2018
BID-019	Joseph DiBello (J&A Plastering)	Plastering	1. Under base bid it notes 17,000sf as re-adhered plaster is this part of the 20,300sf repair/refinish or is the 20,300sf above and beyond. The 17,000sf would still need to be refinished/repared 2. Under base bid it notes 3500sf to be removed if delaminated or damaged, are we removing? Is this part of the 20,300 sf refinish and repair? 3. The 17,000 sf still needs to be repaired and re-finished after you re-adhere it 4. So I have 17,000 sf to refinish and patch cracks and large voids (after being re-adhered) + 3500 to re-finish/repair + an additional 20,300 of repair and refinish? 5. In the alternate it notes I have 17,000 sf to be replaced with gypsum veneer - Does this mean I'm cutting out loose failed material and in-filling with a gypsum based product and then skimming with diamond veneer base and finish? 6. Why is there only 17,000 sf in alternate bid? It seems you would be repairing the same amount of plaster only a different way of doing it. 7. The spec for base bid has you using HPCS products/tools but these are not for sale. I found an alternate product for injecting plaster but not sure yet if it meets ISO 9000 standards. 8. How do we re-adhere lath ceiling-there's nothing for screws to attach to except random iron.	1. The 20,300sf of repair/refinish is above and beyond the 17,000sf re-adhered. The 17,000sf re-adhered will be repaired/refinished as required to patch any damage caused by the process of re-adhering. 2. Yes 3,500 sf is to be removed. This area is primarily on ceiling and walls that will be behind or above new ceilings and walls. The removal is to prevent any future deterioration and potential for pieces to fall onto or through new work. It is not a part of the 20,300sf to repair/refinish. 3. It should be repaired/refinished as required to patch any damage caused by the process of re-adhering. 4. Correct. 5. Correct. 6. That is correct. 7. Alternates are acceptable as long as they meet all the specification requirements. 8. The assumption is the lath is still attached to the structure, but the plaster is detached from the lath. The intent is to re-adhere the plaster to the lath as described in the specifications.	1/29/2018
BID-018	Bill Besser (Postler & Jaekle Corp)	Temporary Heat	Please clarify if the temp heat is just for the addition alone or the whole bldg?	Temporary heating will be required for the entire building.	1/29/2018
BID-017	Bill Besser (Postler & Jaekle Corp)	HVAC Alternate MC-1	Please clarify the exact area of Alt MC-1 (Central Stair). Should this be a deduct to the project? The specs say Omit and then Add alternate as well.	The responsibility of the Mechanical Contractor if the central stair is omitted is to provide (1) 24"x30" signature hardware floor grille to provide a plenum return for the units in the basement. If the central stair is not omitted the 24"x30" floor grille will not be required.	1/29/2018
BID-016	Bill Besser (Postler & Jaekle Corp)	HVAC Grilles	Please verify that the R-10 grille is supposed to be 24" x 24" for Alt MC-1. I can't find this size on the Signature Hardware website. This grille is also shown on M202 by the attic access room.	Please provide a 24"x30" in place of the 24"x24"	1/29/2018
BID-015	Bryan Mullane (Paragon Supply)	Brick Size	In the Products Section (section 2.3, paragraph B, number 1a) it lists Graystone Velour A by Belden Brick Company Modular or equal. Modular size brick are 3 5/8 inches wide by 2 1/4 inches high by 7 5/8 inches long. The spec then goes on to list the size (actual dimensions) in section 2.3, paragraph B, number 8 as 3-5/8 inches wide by 2-1/4 inches high by 11-5/8 inches long, which is a Norman size brick. Can you present this to the architect and have them clarify what size they are looking for? I have been to the building and the existing brick are in the Modular size range.	Brick size to match existing Modular sized brick.	1/26/2018
BID-014	George Slavik III (Piccirilli-Slavik & Vincent Plumbing & Heating Inc.)	Pre-Bid Questions	1. Mechanical Demolition Drawings call for the existing cooling tower, piping, and pumps in the basement mechanical room to be removed. Can you confirm if there is still fluid in this system or if it has been drained. If there is fluid can you confirm if the fluid is just water or if it has any chemicals such as glycol in it that will need to be disposed of? 2. In reviewing the insurance requirements in the contract documents, there is no mention of a builders risk insurance policy. Please confirm the owner will provide the builders risk insurance policy and include the interest of the contractors 3. At the pre-bid meeting today it was discussed how critical the plaster patch is on the project. Per a verbal answer the mechanical and plumbing contractor will be responsible to drill or cut any hole through a plaster surface and the GC will be required to do all plaster patch. Please confirm this is the case in writing, thank you. 4. In specifications section 004327 Women and Minority Hiring Goals Form there is a form to be filled out for status of the hiring goals. There are also dollar amounts per contract listed. In the pre-bid meeting there was a verbal conversation about whether that number was to be used for vendors and subcontractors. Please confirm the exact intent of this goal is just to try to hire women and minorities to meet that dollar amount per contract. Please clarify the M/WBE requirements on the project, thank you.	1. The existing system has had piping sections removed throughout the building for many years. The existing equipment is drained. 2. OCP (Owners and Contractors Protective liability coverage) was not a requirement of this contract. 3. The cutting required by any trade is to be provided by the trade and should be completed in a workman like manner as to not be excessive. If the cutting and removal is found to be excessive it will be the responsibility of the trade to accommodate the required repairs. The plaster patching required, provided by the GC, should be considered a part of the repair areas shown on the Demolition Drawings. 4. This will be addressed and clarified in a future addendum.	1/26/2018

ID	From	Subject	Question	Suggestion	Received
BID-013	Fahs GCEstimating (Fahs Construction Group)	Bid Time	Fahs Construction Group is requesting that the bid time be changed from 10:00 AM to 2:00 PM.	The bids will be received until 2:00pm and opened and read at 3:00pm per Addendum 1 revised bid time.	1/26/2018
BID-012	Bob Smith (Postler & Jaeckle Corp.)	Sensors	Wall sensors for VRF-3 and 15A are shown to be placed on a glass partition. Please clarify an alternative location.	Please move sensors serving VRF-3 and VRF-15A West on to the existing wall. Cut and patch existing wall accordingly to satisfy the historical society's request. Coordinate with General Contractor for patching requirements.	1/26/2018
BID-011	Bob Smith (Postler & Jaeckle Corp.)	Restoration	For the purposes of this RFI it is understood and agreed that responsibility for any cutting and trenching into existing walls and finishes lies with the contractor needing the cutting and trenching. My request is this: Due to the historic nature of the building and requirements for authentic restoration, would it not be in the best interest of the project to have the successful GC do all finish plaster and painting in those areas needing historic preservation? The GC contract already requires a per square foot unit price. A requirement could be added to have each prime contractor contract separately with the successful GC on restorative finishes based on that unit price.	The cutting required by any trade is to be provided by the trade and should be completed in a workman like manner as to not be excessive. If the cutting and removal is found to be excessive it will be the responsibility of the trade to accommodate the required repairs. The plaster patching required, provided by the GC, should be considered a part of the repair areas shown on the Demolition Drawings.	1/26/2018
BID-010	Bob Smith (Postler & Jaeckle Corp.)	Captive Air Controls	During the walkthru it was stated the Captive Aire controls are also part of the Mechanical Scope. The integration of the CASlink controls to the BMS is clearly given and will be included in our Division 230923 quote, but whose responsibility is the actual installation and connection of the Captive Aire controls shown on their drawings? Is this the responsibility of the Captive Aire supplier, the project EC, or is the MC responsible to contract separately for this installation?	Please refer to specification section 233813 - Commercial Kitchen Hoods, appendix - Captive Aire drawings to determine which contractor is responsible for each portion of the Captive Aire equipment.	1/26/2018
BID-009	Bob Smith (Postler & Jaeckle Corp.)	Planking	During the walk-thru of 1/25 it was apparent that most, if not all, trades will have work in the attic space. The current construction is, at best, unsafe and precarious to walk on. Who will have the responsibility of planking this area during construction?	Each contractor is responsible for their own scaffolding and planking per Multiple Contract Summary and Temporary Facilities specifications.	1/26/2018
BID-008	Bob Smith (Postler & Jaeckle Corp.)	Lead Paint	During the PreBid of 1/25 Wayne Jennings mentioned additional Lead Paint. For the purposes of the bid, is it to be assumed ALL lead paint will be removed prior to construction activities? If not, who will be responsible for its removal and remediation?	The GC is responsible for lead paint removal; however, if a Prime contractor starts their work ahead of such removal that particular Prime contractor must ensure that the work is performed in accordance with the EPA's renovate, repair and painting rule (RRP).	1/26/2018
BID-007	Dan Corbett (JPW Structural Contracting)	Structural Steel	1. Do columns E1 & D2 extend to the parapet or do they have beams cantilevered over them at the low roof per S104? 2. Is the W18x40 (3/16") south of gridline (4) per S104 the same beam as shown in 4/A316? If so should this beam only be included in alternate GC-3 and not the base bid? 3. What are the HSS sizes for details 6 & 7/A503? Also what columns do they frame into? I do not see these HSS beams on the structural drawings.	1. Columns E1 and D2 extend up to the parapet. 2. Yes, this is beam shown in 4/A316. Include in alternate GC-3, not in base bid. 3. Stair to be designed by steel contractor. See notes on plans at stair locations and general notes on sheet S-500.	1/25/2018
BID-006	George Slavik III (Piccirilli- Slavik & Vincent Plumbing & Heating Inc.)	Temporary heat	Please reference specification sections: Multiple Contract Summary 011200-1.4E & Temporary Facilities & Controls 015000-2.4: - Contract MC-HVAC is responsible for temporary heat including use charges. In the prior bid on this project this was changed to the owner paying for the use charges. This is typically the most fair way to approach this. Can the use charges for temporary heat, cooling, ventilation be paid for directly by the owner? If not, can an allowance be put in place for these costs?	The MC shall provide the infrastructure required to supply the necessary fuel for temporary heating. Note that typically, the City of Binghamton does not allow for bulk propane fuel storage tanks to be used within the City limits. The owner will pay for utility consumption use charges only. For clarification refer to the revised Multiple Contract Summary and Temporary Facilities & Controls specifications.	1/24/2018
BID-005	Bob Smith (Postler & Jaeckle Corp.)	HVAC Control System	Please reference specification 23 08 00 Sections 3.6 F. 1., 2., & 3. No quantity of hours is listed for the three phases of HVAC Control Systems training. Blank lines remain in specification. Please Clarify.	Please provide 4 hours per each (3) phases of control training.	1/23/2018
BID-004	Jeff Smith (Kelly Brothers)	Door Hardware	Where might I find a Finish Hardware Specification Section? Will the Door Schedule be updated to show the hardware Sets required per opening?	The hardware specification and hardware sets will be issued via Addendum #1.	1/23/2018
BID-003	Bob Smith (Postler & Jaeckle Corp.)	Sensors	There is no sensor location shown for VRF's-6A and/or 6B serving 1st floor Grand Stair 111. There is no sensor location called out by symbology on M-301 for VRF-38. Is it to be located where the text VRF-38 is shown at Column Line A-5? Please clarify?	Sensor locations for VRF units 6A & 6B are to be located within the unit near the return air grille. Due to historical preservation reasons it would be difficult to mount a sensor and wiring in the existing walls in the grand stair. The proposed sensor location for VRF-38 is correct, at column line A-5.	1/23/2018
BID-002	Christine Antoine (Daniel J. Lynch, Inc.)	Bid Drawings	I was wondering how I purchase the drawings for this project. I tried to do it on your website but it only lets me download them.	You can acquire hard copies of the plans directly from SUNY Broome as described in the project Legal Notice (Advertisement)	1/23/2018
BID-001	Daniel Traina (Welliver)	Budget	Is there a published budget for the various contracts on this project?	Alternates may impact the final figures; however, the following figures can be used to assist bidders with evaluating the bond requirements: General Construction \$ 6,250,000 Mechanical \$ 1,850,000 Electrical \$ 1,400,000 Plumbing \$ 800,000	1/23/2018

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Division 01 Section "Summary" for work restrictions and limitations on utility interruptions.

1.2 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Architect, testing agencies, and authorities having jurisdiction.
- B. All temporary utility usage charged will be incurred by the owner.

1.3 INFORMATIONAL SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.
- B. Erosion and Sedimentation Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- C. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire prevention program.

1.4 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

- C. Accessible Temporary Egress: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

1.5 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 SITE ENCLOSURE FENCING

- A. Chain-Link Fencing: Minimum of 2-inch, 0.148-inch thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts.
- B. Portable Chain-Link Fencing: Minimum of 2-inch, 0.148-inch thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails. Provide concrete bases for supporting posts.

2.2 TEMPORARY FACILITIES CONTRACTS GC, EC, MC, PC

- A. Field Offices, General: With approval by the Construction Manager, each contractor may provide for its own use the following:
 - 1. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

B. Field Offices: The Owner will provide conditioned office space within an existing building in close proximity to the site for each of the four (4) prime contractors and the construction manager to use as a field office. Each prime contractor and the construction manager will be provided a secure lockable office approximately 12'x12' and one parking space. Each prime contractor is responsible to provide their own furnishings, computers, copiers, appliances (small refrigerator & microwave oven as applicable), phone and internet services. The GC will need to provide certain items for the construction manager's office, reference spec. section 01 50 00. Shared toilet facilities will be provided as well as one conference room for meetings. All utilities (electric, gas & water) for the offices will be provided.

Subject offices are intended for use by supervisory personnel (superintendent / foreman). It is not expected that actual site workers will use the offices as there will still need to be some type of "break time and lunch time" areas provided at the site.

- C. CONTRACT GC - Common Use Field Office: Of sufficient size (Generally 12' x 60') to accommodate needs of Construction Manager and Architect to accommodate Project meetings specified in other Division 01 sections. The office shall include two (2) private offices and a conference space large enough to accommodate 20 people. Keep office clean and orderly. General Trades contractor to carry lease of CM field office through completion of the project. Offices is to be furnished and equipped as follows.
- a. Furniture required for Project site documents, including plan tables, file cabinets, plan racks, and bookcases.
 - b. Office supplies and office equipment for project duration on an as needed basis
 - c. 100 amp electrical power service and 120 V ac duplex receptacles, with no fewer than one receptacle on each wall.
 - d. Bottled drinking water.
 - e. Coffee machine and supplies.
 - f. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
 - g. Lighting fixtures capable of maintain average illumination of 20 fc at desk height.
 - h. Security lights on exterior of trailer, minimum of 1 on each corner.
 - i. Set of stairs at each trailer entrance door for access.

D. CONTRACT GC, EC, MC, PC - Storage and staging of materials will need to be off-site and each prime contractor should arrange for locations as required for their own scope of work. Space for dumpsters will be coordinated on the site.

E. CONTRACT GC - Three (3) unpiped temporary toilet fixtures, wash facilities, and drinking water facilities including disposable supplies. All facilities to be placed at the discretion of the Construction Manager.

2.3 MISCELLANEOUS EQUIPMENT

A. CONTRACTS GC, EC, MC, PC - Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

B. CONTRACT GC - Electronic Communication Service: Provide the following in the primary field office adequate for use by CM/AE to access project electronic documents and maintain electronic communications.

1. Computer - Provide a computer with not less than the following:

- a. Lenovo Thinkpad T550
- b. Processor: Intel Core i7
- c. Memory: 8 GB
- d. Disk Storage: 500 GB
- e. Display: 1920 x 1080 resolution
- f. Network Connectivity: 10/100BaseT Ethernet.
- g. Operating System: Windows 10 Pro
- h. Productivity Software:
 - 1) Microsoft Office Professional 2016, including Word, Excel, PowerPoint and Outlook.

- 2) Adobe Reader 10.0 or higher.
 - 3) WinZip 7.0 or higher.
2. Tablet – Provide the following:
 - a. Apple iPad Pro Wifi 128 GB Space Grey
 - b. Apple Pencil for iPad Pro
 - c. iPad Pro Smart Keyboard
 3. Provide (2) portable Bluetooth conference call table top speaker.
 4. Internet Service: Broadband modem, router and ISP, equipped with hardware, firewall, providing minimum 5 Mbps upload and 15 Mbps download speeds at each computer.
 5. Provide Copier/Printer: "All-in-one" unit equipped with printer server, combining color printing, photocopying, scanning, and faxing, or separate units for each of these three functions with capabilities for Letter, Legal & Ledger size paper.
- C. CONTRACT GC, EC, MC, PC - Project Progress Photography
1. Provide stationary hi-def project photography service or system for time lapse project reporting. Provide a minimum of 6 photos a week to the Construction Manager.
- D. CONTRACT GC - Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
- a. Identification Signs: Provide (2) Project identification signs:
 - 1) Provide all weather full color four (4) foot by eight (8) foot project identification sign. Information will include project identification, names of sub-contractors, design team, and local officials names. Graphics provided by CM/AE. Provide support structure and installation as required. Location to be directed by Construction Manager.
 - b. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
 - c. If required, insert a list of necessary signs and add Project-specific provisions such as special graphics and special lighting. See Evaluations.
 - d. Provide temporary, directional signs for construction personnel and visitors.
 - e. Maintain and touchup signs so they are legible at all times.

2.4 TEMPORARY HEATING AND VENTILATION SYSTEMS - CONTRACTS GC, EC, MC, PC

- A. TEMPORARY HVAC EQUIPMENT: Each Contract for its own work is responsible for temporary heating, cooling, and ventilation before weather tight enclosure of building is complete. **CONTRACT MC - HVAC** is responsible for temporary heating, cooling, and ventilation after permanent enclosure of building is complete **and will pay utility use charges.**
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 and clean HVAC system as required in Division 01 Section "Closeout Procedures."
4. CONTRACT PC - PLUMBING AND FIRE SUPPRESSION; Piping and temporary gas provisions for temporary heat unit as outlined in Contract MC - HVAC.
5. CONTRACT MC - HVAC: Following the achievement of the watertight milestone on approximately 11/9/2018, the HVAC will be responsible for providing temporary heat. Temporary Heat will include the following:
 - a. All installation and hook-up of a Temporary Exterior packaged unit (i.e. Babfar Unit or approved alternate)
 - b. All material, equipment and labor to provide temporary heat including set-up and demobilization at the end of the heating season.
 - c. All ductwork for a 1.5m BTUH gas fired unit with associated manual dampers for both floors and ductwork to be extended throughout all work in spaces.
 - d. A maintained temperature range of 45-60 degrees.
 - e. ~~Payment of all consumption costs.~~
 - f. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
6. CONTRACT EC - ELECTRICAL: Wiring and temporary power provisions for temporary heat unit as outlined in Contract MC - HVAC.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
 1. Locate facilities to limit site disturbance as specified in Division 01 Section "Summary."
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY FACILITIES - CONTRACT GC

A. GENERAL TRADES CONTRACTOR to provide the following:

1. Snow And Ice Removal - Remove snow and ice as required to minimize accumulations.
 - a. Accumulation of 3 inches or more of snow will require plowing, snow-blowing, or shoveling as required to create passable entrance for vehicles and worker. All entrances are to remain accessible and free of ice and snow throughout the work day.
2. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.
3. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
4. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.
5. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weather tight enclosure for building exterior.
6. Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.
7. Waste Disposal Facilities: Comply with requirements specified in Division 01 Section "Construction Waste Management and Disposal."
8. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Division 01 Section "Execution." Waste disposal facilities for provided for use by all contractors through the projects entirety.
9. Temporary Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate.
10. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.
11. Fire Extinguishers: Provide fire extinguishers for use throughout the project by all contractors in the event of an emergency. Furnish a minimum of four (4) on the

basement level, four (4) on the 1st floor, and four (4) on the 2nd floor at a time directed by the CM.

12. Site Enclosure Fencing: The General Trades contractor is to provide site enclosure fencing. This responsibility is to be maintained through the duration of the project. Site fencing is to be maintained in a manner that will prevent people and animals from easily entering the site except by entrance gates.
 - a. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations. Approximately 700 LF as directed by CM to enclose entire Project site.
 - b. Provide a minimum of (3) vehicle and man gates, placed at the discretion of the CM.
 - c. Maintain security by limiting the number of keys and restricting distribution to authorized personnel. Furnish one set of keys to the CM.

3.3 TEMPORARY WATER AND SANITARY UTILITY INSTALLATION - CONTRACT

A. PLUMBING AND FIRE SUPPRESSION CONTRACTOR to provide the following:

1. General: Install temporary service or connect to existing service.
2. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
3. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
 - a. Connect temporary sewers to municipal system as directed by authorities having jurisdiction.
4. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.
 - a. Water Service: Connect to water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
5. Sanitary Facilities: Provide wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
 - a. Toilets: Use of Owner's temporary toilet facilities will not be permitted.

3.4 TEMPORARY ELECTRICAL WORK - CONTRACT EC

A. ELECTRICAL CONTRACTOR to provide the following:

1. Electric Power Service: Connect to electric power service. Maintain equipment in a condition acceptable to Owner.

2. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
 - a. Install electric power service underground unless otherwise indicated.
 - b. Connect temporary service to Owner's existing power source, as directed by Owner.
3. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - a. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.

3.5 SECURITY AND PROTECTION FACILITIES INSTALLATION - CONTRACTS GC, EC, MC, PC

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- C. Temporary Erosion and Sedimentation Control: Comply with requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent and requirements specified in Division 31 Section "Site Clearing."
- D. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- E. Storm water Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of storm water from heavy rains.
- F. Tree and Plant Protection: Comply with requirements specified in Division 01 Section "Temporary Tree and Plant Protection."
- G. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire prevention program.
 1. Prohibit smoking in construction areas.
 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.

3. Develop and supervise an overall fire-prevention and protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.6 MOISTURE AND MOLD CONTROL - CONTRACTS GC, EC, MC, PC

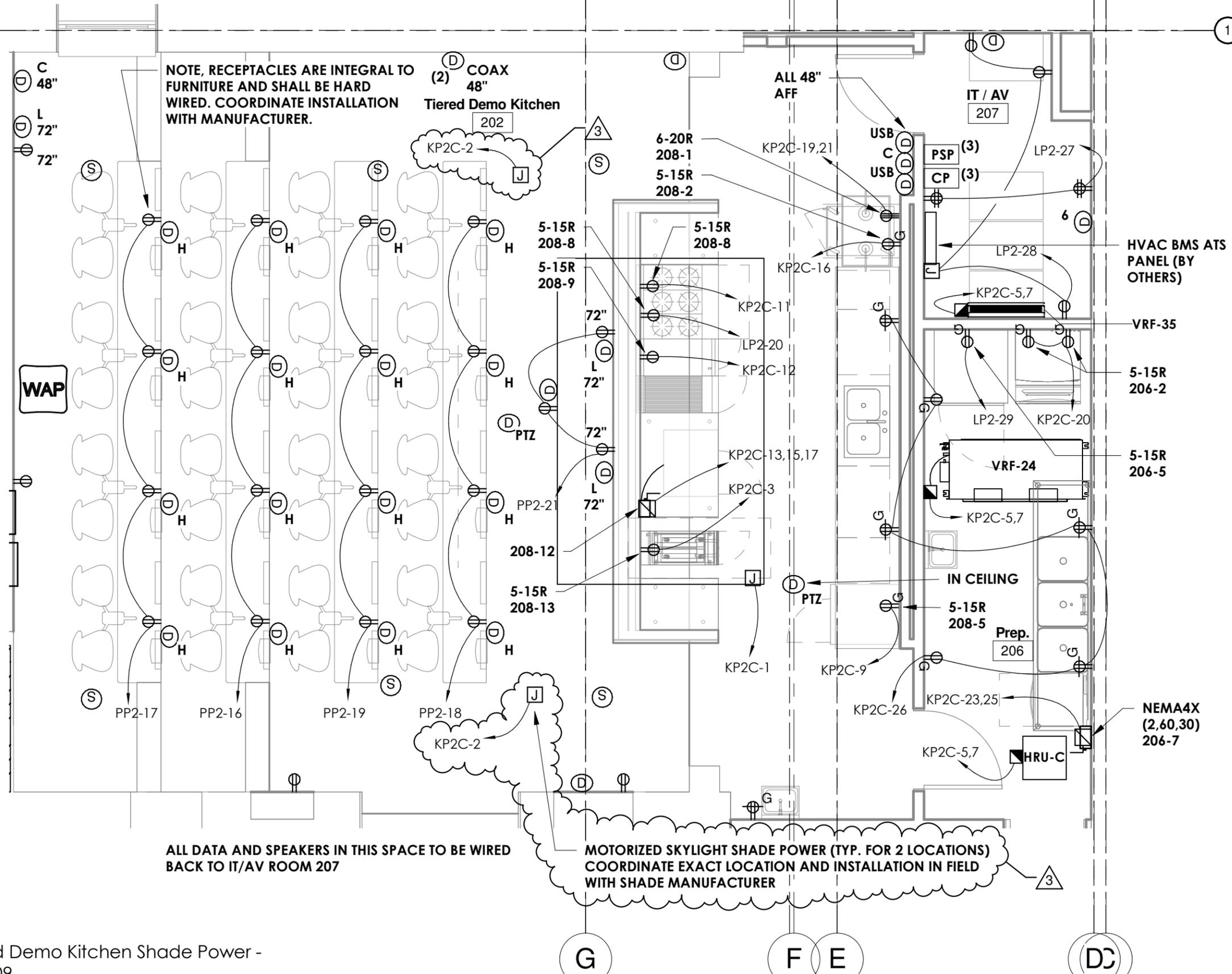
- A. Contractor's Moisture Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.
- B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect materials from water damage and keep porous and organic materials from coming into prolonged contact with concrete.
- C. Partially Enclosed Construction Phase: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
 1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
 2. Keep interior spaces reasonably clean and protected from water damage.
 3. Discard or replace water-damaged and wet material.
 4. Discard, replace, or clean stored or installed material that begins to grow mold.
 5. Perform work in a sequence that allows any wet materials adequate time to dry before enclosing the material in drywall or other interior finishes.
- D. Controlled Construction Phase of Construction: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
 1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
 2. Remove materials that cannot be completely restored to their manufactured moisture level within 48 hours.

3.7 OPERATION, TERMINATION, AND REMOVAL - CONTRACTS GC, EC, MC, PC

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

- B. Maintenance: Maintain facilities in good operating condition until removal.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 - 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION 01 50 00



NOTE, RECEPTACLES ARE INTEGRAL TO FURNITURE AND SHALL BE HARD WIRED. COORDINATE INSTALLATION WITH MANUFACTURER.

(2) COAX 48" Tiered Demo Kitchen 202

ALL 48" AFF

IT / AV 207

HVAC BMS ATS PANEL (BY OTHERS)

VRF-35

5-15R 206-2

5-15R 206-5

IN CEILING

5-15R 208-5

Prep. 206

NEMA4X (2,60,30) 206-7

ALL DATA AND SPEAKERS IN THIS SPACE TO BE WIRED BACK TO IT/AV ROOM 207

MOTORIZED SKYLIGHT SHADE POWER (TYP. FOR 2 LOCATIONS) COORDINATE EXACT LOCATION AND INSTALLATION IN FIELD WITH SHADE MANUFACTURER

Tiered Demo Kitchen Shade Power - E-SK-09

1/4" = 1'-0"

DRAWING OF ORIGIN: E402

Client:
SUNY Broome
 P.O. Box 1017
 Binghamton, NY 13902

Passero Associates

242 West Main Street, (585) 325-1000
 Suite 100
 Rochester, NY 14614 Fax: (585) 325-1691
 Principal-In-Charge Mark D. Passero, P.E.
 Project Manager Steve Trobe
 Designed By

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TIERED DEMO SHADE POWER
 78 Exchange Street

SUNY Broome Culinary Arts Center - Renovation & Addition

Town/City: Binghamton
 County: Broome State: New York

Project No.:
 20140120.0009

Drawing No.:
E-SK-09

Date:
 February 9, 2018