



ADDENDUM 04
DELAWARE TECHNICAL & COMMUNITY COLLEGE
ALLIED HEALTH – C-WING ADDITION & RENOVATIONS

January 29, 2013

The following constitutes **Addendum 04** for the above listed project. This addendum is hereby made a part of the contract documents. Please note the following additions, revisions, and/or clarifications in connection with this contract and be governed accordingly in submitting bids.

1. **ADDITION – 07 – General Trades Contractor** shall furnish and install all **sheathing** as detailed in Contract Documents, including the enclosed Specification 061600 - Sheathing.
2. **ADDITION – 07 – General Trades Contractor** shall furnish and install all **Weather Barriers (Air Infiltration Barriers)** as detailed in Contract Documents, including the enclosed Specification – 072500 – Weather Barriers (Air Infiltration Barriers).
3. **REVISED – 013100 – Milestone Schedule – Project Master Schedule PDF**
 - ID 56 – **Construction Phase, 441days**, start 04/01/13, **finish 12/16/14**
 - ID 169 – **Mechanical Screen Wall Steel, 5 days**, start 08/27/13, **finish 09/03/13**

ENCLOSED:

- BSA+A Addendum 4 – dated 01/29/13
- Contractor’s Request for Information Log – dated 01/29/13
- Specification 061600 – Sheathing – dated 01/29/13
- Specification 072500 – Weather Barriers (Air Infiltration Barriers) – dated 01/29/13
- Specification 076200 – Sheet Metal Flashing and Trim – dated 01/29/13
- Specification 080671 – Door Hardware – dated 01/29/13
- CSK-001 – dated 01/29/13
- ASK-016 – dated 01/29/13
- ASK-017 – dated 01/29/13
- ASK-018 – dated 01/29/13
- ASK-019 – dated 01/29/13
- ASK-020 – dated 01/29/13
- ASK-021 – dated 01/29/13
- MSK-010 – dated 01/29/13

Delaware Technical & Community College
Allied Health - C-Wing Addition & Renovations
DTCC13345-CWINGADD

-MSK-011 – dated 01/29/13
-MSK-012 – dated 01/29/13
-MSK-013 – dated 01/29/13

Prepared By:
Bancroft Construction Company



Planning

Architecture

Interior design

Graphic Design

Project Management

ADDENDUM to CONTRACT DOCUMENTS

Date: January 29th, 2013

To: All Bidders

From: Renee Richardson, BSA + A

Copies: Delaware Technical & Community College
MacIntosh Engineering
Landmark/JCM
Delaware Engineering & Design Corporation
Bandcroft Construction Company

Project Name: **Delaware Technical & Community College – Allied Health, “C” Wing Addition & Renovation**

Project Number: BSA+A # 11.103

Subject: **ADDENDUM 4**

NOTICE:

Attention is called to the following item(s), effective as of the date above, which shall be added to, deleted from, or changed in the contract documents dated **January 10, 2013** and any previously issued addenda, thereby incorporating these items into the contract documents.

Attach this Addendum to the project manual for this project. Work or materials not specifically mentioned herein are to be as described in the main body of the specifications and as shown on the drawings. Bidders shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification.

The following clarification, changes and/or additions shall by this reference be incorporated into the contract documents as though fully set forth therein.

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A. GENERAL

Item No.	Item
A-1	<p>SECTION: TABLE OF CONTENTS</p> <p>INSERT NEW: 061600 – Sheathing 072500 – Weather Barriers (Air Infiltration Barriers) after</p>

B. MODIFICATIONS TO PROJECT MANUAL

Item No.	Description:
B-1	<p>SECTION 072500 – WEATHER BARRIERS (AIR INFILTRATION BARRIERS)</p> <p>INSERT NEW: Section 072500 – Weather Barriers (Air Infiltration Barriers) in its entirety. See Attachments</p>
B-2	<p>SECTION 075323 – EPDM MEMBRANE ROOFING</p> <p>REVISE: 2.4 ROOF INSULATION; Paragraph B. to read: “B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1 felt or glass-fiber mat facer on both major surfaces. Minimum thickness – two layers of 2” board insulation for a total of 4 inches (except at drains) r = 5.6 per inch. (Minimum roof insulation R-Value of R-20).”</p>
B-3	<p>SECTION 080671 – DOOR HARDWARE</p> <p>DELETE: Section 080671 – Door Hardware in its entirety. INSERT NEW: Section 080671 – Door Hardware See Attachments</p>
B-4	<p>SECTION 061600 – SHEATHING</p> <p>INSERT NEW: Section 061600 – Sheathing, in its entirety. See Attachments</p>
B-5	<p>SECTION 076200 – SHEET METAL FLASHING AND TRIM</p> <p>DELETE: Section 076200 – Sheet Metal Flashing and Trim in its entirety. INSERT NEW: Section 076200 – Sheet Metal Flashing and Trim See Attachments</p>

C. BIDDER QUESTIONS & CLARIFICATIONS

Item No.	Question/Answer
C-1	Contractor’s Request for Information Log See attachment

D. MODIFICATIONS TO DRAWINGS

Item No.	Description:
D-1	Drawing CC-05 - Lines and Grades Plan: a.) Revised Roof Leader system to avoid landscape lighting. Leader lengths of SDR-26 changed for northern most proposed pipe. 12”x12” Tee fittings changed to Wye fittings. A 45 degree bend has been added to the northern most leader to avoid lighting fixture. Invert changed for northern most roof leader exiting building. Refer to Engineer’s Supplemental Sketch CSK-001 .
D-2	Drawing 132 - First Floor Finish Plan – Addition – Base Bid: a.) Revise floor finish pattern per Architect’s Supplemental Sketch ASK-020 .
D-3	Drawing 135-A4 - First & Second Floor Finish & Furniture Plans – Alt. #4: a.) Revise floor finish pattern per Architect’s Supplemental Sketch ASK-021 .
D-4	Drawing 171 - Roof Plan: a.) Revise General Notes #3 & #7 per Architect’s Supplemental Sketch ASK-017 .
D-5	Drawing A401 - Door Schedule: a.) Revise Door Hardware Sets for Doors C148.2 and C205 per Architect’s Supplemental Sketch ASK-016 . b.) Duplicate door C214 is to be deleted, Alternate #2 Door C228 has been added per ASK-016 .
D-6	Drawing M102-A6: a.) Measure airflow of VAV box shown prior to construction. Refer to sketch MSK-010 .
D-7	Drawing M114-A6: a.) Balance duct main, and VAV box to pre-construction airflows. Refer to sketch MSK-011 .
D-8	Drawing M101-A7:

		a.) Measure airflow of VAV box shown prior to construction. Refer to sketch MSK-012.
D-9		Drawing M112-A7: a.) Balance duct main, and VAV box to pre-construction airflows. Refer to sketch MSK-013.

E. ATTACHMENTS

Items	Date
Contractor’s Request for Information Log	01/29/13
Section 061600 – Sheathing	01/29/13
Section 072500 – Weather Barriers (Air Infiltration Barriers)	01/29/13
Section 076200 – Sheet Metal Flashing and Trim	01/29/13
Section 080671 – Door Hardware	01/29/13
CSK-001	01/29/13
ASK-016	01/29/13
ASK-017	01/29/13
ASK-018	01/29/13
ASK-019	01/29/13
ASK-020	01/29/13
ASK-021	01/29/13
MSK-010	01/29/13
MSK-011	01/29/13
MSK-012	01/29/13
MSK-013	01/29/13

END OF ADDENDUM #4



Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
Q1	Is there a cost associated with the successful contractor obtaining drawings on CAD? If so, what is the cost?	01/16/13	ADDM #1	
A1	Yes, See Spec Section 007344 – Cost is \$150.00 per consultant. Note: Cad Files will only be distributed to the awarded contractor.	01/17/13	ADDM #1	BSA+A
Q2	Specifications - I see a General Provisions for Plumbing and Fire Protection specification but no Fire Protection specifications. Is one going to be provided?	01/16/13	ADDM #1	
A2	Performance specification provided on drawings.	01/17/13	ADDM #1	DEDC
Q3	Scope of Work – Fire Protection - Item 7.1.3: includes: a dry-pipe system, a fire pump [if required], concealed/recessed sprinkler heads & seismic supports. Is there a dry-pipe system on the project, plans do not indicate one? Plans do not indicate a fire / jockey pump system; Plans call for semi-recessed pendent sprinkler heads. Please indicate if & where concealed heads are required. Is seismic support required?	01/16/13	ADDM #1	
A3	Fire Protection Contractor shall be responsible for the fire suppression sprinkler system in its entirety to meet all governing codes. Concealed heads with white cover plates are to be provided in all gypsum board ceilings.	01/17/13	ADDM #1	BANCROFT BSA+A
Q4	Scope of Work – Fire Protection - Item 7.1.4: Maintain a fully functional sprinkler system in the renovation area of work in the renovation area of work for the entire duration of the project. What is the intent of this? [is the system to be turned back on each night?].	01/16/13	ADDM #1	
A4	Fire Protection Contractor shall take all means to limit existing system impairments. Fire Protection Contractor shall bare all costs associated with providing a fire watch when system is nonoperational.	01/17/13	ADDM #1	BANCROFT
Q5	Scope of Work – Fire Protection – Item 7.1.6: Tie into the domestic water main. The plumber should leave a flanged tee for the sprinkler contract after the drop down to & at the backflow preventor of the sprinkler system. This way he is responsible for the chlorination/testing of that piping.	01/16/13	ADDM #1	
A5	Fire Protection Contractor shall tie in at and including the backflow preventer per Summary of Work.	01/17/13	ADDM #1	BANCROFT
Q6	Scope of Work – Fire Protection – Item 7.1.10: Heads to be installed in the center of the ceiling tiles. Are the quarter points of the 2’ x 4’ tile permitted?	01/16/13	ADDM #1	
A6	Heads to be installed in center of ceiling tiles.	01/17/13	ADDM #1	DEDC



Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
Q7	Scope of Work – Fire Protection – Item 7.1.14: Seismic. Is this a requirement?	01/16/13	ADDM #1	
A7	Reference the Answer to Question 3.	01/17/13	ADDM #1	BANCROFT
Q8	Scope of Work – Fire Protection – Item 7.1.15: Fire department location. Has the location as indicated on the plans been approved by the Fire Marshal / Fire Chief?	01/16/13	ADDM #1	
A8	Site Plans have been approved by the Fire Marshal.	01/17/13	ADDM #1	LANDMARK
Q9	Scope of Work – Fire Protection – Item 7.1.15: Item 7.1.20 & .21: Fire pump / controller. Again, required?	01/16/13	ADDM #1	
A9	Reference the Answer to Question 3.	01/17/13	ADDM #1	BANCROFT
Q10	Scope of Work – Fire Protection – Item 7.2.7: Material testing. Please clarify what this means and if this is an actual requirement. If it is, what are the costs involved?	01/16/13	ADDM #1	
A10	No material testing from the Fire Protection scope of work is expected.	01/17/13	ADDM #1	BANCROFT
Q11	Drawings – FP001: Flow test information. Please provide the gpm for the water flow test from a fire hydrant flow test and not the inspectors test. That is what will be required from the Fire Marshal.	01/16/13	ADDM #1	
A11	Information is not available. Fire Protection Contractor is required to perform flow test as part of Contractor’s scope of work.	01/17/13	ADDM #1	DEDC BANCROFT
Q12	Drawings – FP001: Detail 2 indicates 6” underground main however Detail 3 on drawing FP101 [& drawing P121] indicates a 4” underground water main. Please clarify. Also, this information should be on the plumbing drawings as this is under his scope of work. In fact, there are FP notes on drawing P001 that should be on the FP drawings. Please indicate where the sprinkler contractor is to begin his work. See 7.1.6 under Scope of Work, above.	01/16/13	ADDM #1	
A12	6” main is required; refer to site plans and details on FP-001. Reference Answer to Question 5 for where the Fire Protection Contractor work begins.	01/17/13	ADDM #1	DEDC
Q13	Drawings - FP001: General Notes: #2 refers to keeping the existing sprinkler system active during the project. Again, need clarification/confirmation. #7 indicates an MRI room [as well as note 3C under Construction Notes. Please advise where the MRI room is as I do not see it on the plans.	01/16/13	ADDM #1	
A13	Reference the Answer to Question 4 for requirements of the existing sprinkler system. Disregard Note #7 in General section of Fire Protection notes on Sheet FP001.	01/17/13	ADDM #1	BANCROFT DEDC
Q14	Drawings - FP001: Demolition Notes: All existing sprinkler heads are to be	01/16/13	ADDM #1	



Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	removed. Please clarify/confirm that new heads are to be re-installed.			
A14	Sprinkler heads to be demolished and replaced to meet notes provided on Sheet FP-001 within areas shown on Sheet FP-102.	01/17/13	ADDM #1	DEDC
Q15	Drawings - FP001: Construction Notes: #1 refers to fire alarm devices and is not part of our scope.	01/16/13	ADDM #1	
A15	Reference the Electrical Summary of Work for fire alarm scope of work.	01/17/13	ADDM #1	BANCROFT
Q16	Drawings - FP001: Construction Notes: #3B: indicates that upright heads are to be provided for the un-finished areas. Confirm that these should be on 1” sprigs for future renovation [this would be in case the alternates are not accepted – this will provide the proper outlet to install the pendent heads at a later time].	01/16/13	ADDM #1	
A16	Contractor is to design sprinkler system mains throughout building for the case that all alternates are accepted, including first floor shelled space. Contractor is to provide upright heads in unused shelled space to meet all governing codes.	01/17/13	ADDM #1	DEDC
Q17	Drawings - FP001: Construction Notes: #7: Again, the request for clarification that the heads be permitted to be installed in the quarter points of the tiles.	01/16/13	ADDM #1	
A17	Reference the Answer to Question 6.	01/17/13	ADDM #1	DEDC
Q18	Drawings - FP001: Detail 1 indicates that there is an “SP” rising up to the 2 nd floor. Is there to be a floor control assembly in this rise? If one is to be provided, can it be in the riser room with the 1 st floor assembly?	01/16/13	ADDM #1	
A18	Fire Alarm Contractor to locate floor control assemblies, flow switches, tamper switches, etc. within Mechanical Room C143.	01/17/13	ADDM #1	DEDC
Q19	Drawings - FP001: Detail 3: I am assuming that the main drain for the systems can go to the floor drain in the room [and the inspectors tests will be run overhead and outside as indicated].	01/16/13	ADDM #1	
A19	Correct.	01/17/13	ADDM #1	DEDC
Q20	Drawings - FP001: Roof soffit / overhang: Is the Fire Marshal requiring that this be sprinkled?	01/16/13	ADDM #1	
A20	Fire Protection Contractor shall be responsible for the fire suppression sprinkler system in its entirety to meet all governing codes.	01/17/13	ADDM #1	BANCROFT
Q21	Are the existing sprinkler system drawings available?	01/16/13	ADDM #1	
A21	The existing sprinkler system drawings are not currently available.	01/17/13	ADDM #1	DEDC



Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
Q22	I am assuming that we are not responsible for relocating any existing sprinkler piping for other trades. Please confirm.	01/16/13	ADDM #1	
A22	Fire Protection Contractor shall modify the existing sprinkler system including demolition/relocation /addition to conform to all renovations of all trades as shown on Contract Documents, including, but not limited to relocated wall partitions, and coordination with all mechanical and plumbing systems new and existing.	01/17/13	ADDM #1	BANCROFT
Q23	Mechanical drawings M112, M114, M121, M123, & M171-A are all smaller drawings and didn't print out as 30"x42" drawings. Can these please be re-issued as full scale drawings?	01/16/13	ADDM #1	
A23	Drawings will be reissued under the next Addendum.	01/17/13	ADDM #1	BSA+A
Q24	In reference to alternates #2 & #3, is the price of RTU #3 to be included in both bids?	01/17/13		
A24	No. Reference Specification 012300 – Alternates. Price of RTU #3 to be included in Alternate #2.	01/17/13	ADDM #2	BANCROFT
Q25	On specification page 012300-4, alternate #4 makes reference to a M438 drawing under mechanical. This drawing is not in the bid set. Can this be issued?	01/17/13		
A25	Refer to Drawing M114-A4.	01/18/13	ADDM #2	DEDC
Q26	In spec section 220010-11, it states all domestic water to be Viega Press Fit; however, on spec page 220120-2, it states all domestic water to be type L solder joints. Which is correct?	01/17/13		
A26	Either are acceptable.	01/18/13	ADDM #2	DEDC
Q27	Drawing M113 @ column line J shows 12" round exhaust up to EF-5. Drawing M112 & M114 shows 18" round exhaust duct. Which size is correct?	01/17/13		
A27	12" Round duct up and down to EF-5 in chase. Transition required on first floor to existing 18" round at point of new connection shown on sheet M-112.	01/18/13	ADDM #2	DEDC
Q28	Cover sheet 001, showing the list of drawings available, drawing E114-A4 pertains to alternate #4, I can not locate this drawing / please advise.	01/17/13		
A28	Refer to E438-A4.	01/18/13	ADDM #2	DEDC

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
Q29	01-Stiework Summary of Work page 010110-2, paragraph 3.1.4 (under “Work by Others”) has the site contractor excluding the installation of the natural gas line from the main to the meter. Page 010110-4, paragraph 7.1.22 (first sentence) has the site contractor providing the gas service systems. Please clarify.	01/18/13		
A29	01 - Site Work Summary of Work was revised in Addendum 01. 01 - Site Contractor to provide gas service systems.	01/18/13	ADDMM #2	BANCROFT
Q30	01-Stiework Summary of Work page 010110-4, paragraph 7.1.15 has the site contractor backfilling the building foundations. Under the Summary of Work for 04-Concrete, page 010110-3, paragraph 7.1.3 has the concrete contractor backfilling their work. Please clarify.	01/18/13		
A30	01 - Site Contractor to backfill building foundations to subgrade. 04 - Concrete Contractor responsible for sub base and grading within the building footprint. Reference Concrete Summary of Work paragraph 7.1.11	01/18/13	ADDMM #2	BANCROFT
Q31	In reviewing summary of work for contract # 20 Plumbing, Mechanical & ATC Item 7.1.24 States Furnish & Install Dishwasher, Washer & Dryer Including all Connections	01/18/13		
A31	Correct. 20 - Plumbing, Mechanical & ATC Contractor to furnish and install dishwasher, washer, and dryer including all connections. Revise all connections to include Electrical Contractor to provide electrical terminations.	01/18/13	ADDMM #2	BANCROFT
Q32	I noticed that the Alternates are not spelled out on the Plumbing drawings except Alts 4 & 6. Does all plumbing work go into the base bid or does it need to be divided into the Alternates?	01/18/13		
A32	All plumbing is base-bid with the exception of work specifically outlined as part of Alternate 6 and Alternate 4.	01/18/13	ADDMM #2	DEDC
Q33	The specifications call for 3/4" glass in railings, the drawings call for 1/2", 1/2" is preferable at bent glass locations.	01/21/13		
A33	Provide ½” glass in railings as indicated on drawings	01/23/13	ADDMM #2	BSA+A
Q34	What film is needed for the storefront glass at SF1-7. Is the film installation by contract 11?	01/21/13		
A34	... 11 - Glazing Contractor is responsible for film installation. Reference Addendum 01 Summary of Work – 11, 7.1.3 for inclusion of this item.	01/21/13	ADDMM#2	
Q35	Spec. Sect. 088113 Decorative Glass, where is it being used?	01/21/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
A35	Frosted or etched glass is being used on exterior light fixture.	01/23/13	ADDMM #2	BSA+A
Q36	Regarding glazing note 3 on A412, who owns installation of sheet metal trim at ceilings?	01/21/13		
A36	Sheet metal trim to be furnished and installed under 07 - General Trade Contractor.	01/21/13	ADDMM #2	BANCROFT
Q37	Will the louver in CW14 be provided to contract 11 by mechanical contractor?	01/21/13		
A37	Yes.	01/21/13	ADDMM #2	BANCROFT
Q38	The glazing types on sheets A411 & A412 do not coincide with the glass types on page 9 & 10 of spec. sect. 088000. (Is vision glass to be GL-1 or GL-3) Low e is not used on both the #2 & #3 surfaces, used on one surface or the other.	01/21/13		
A38	This is high-end energy efficient glazing system – provide low E surfaces on both glass panels.	01/23/13	ADDMM #2	BSA+A
Q39	Will spec. sect. 088000-13, item 3.6 E, final cleaning of glass, be required by contract 11?	01/21/13		
A39	11 - Glazing Contractor shall include a final whip down of all glazing surfaces interior and exterior at the completion of this Contractor’s Summary of Work. Final cleaning of Glass at Substantial Complete will be completed by others.	01/21/13	ADDMM #2	BANCROFT
Q40	Contract 11 scope of work, item 7.1.9 calls for interior and exterior perimeter caulking of our frames. The interior is also in contract 10, item 7.1.6. Usually interior caulking occurs after curtainwall contractor has demobilized and is no longer on site.	01/21/13		
A40	This item has been revised. Reference Addendum 01 Summary of Work – 11 for clarification of all caulking requirements.	01/21/13	ADDMM #2	BANCROFT
Q41	Is the intent for contract 6 to provide and install the decorative metal railing posts and contract 11 to provide and install the glass in the railings?	01/21/13		
A41	No. Reference Addendum 01 Summary of Work – 11, 7.1.9.	01/21/13	ADDMM #2	BANCROFT
Q42	The specifications call out Qwiktrak, which guides the system utilizing tracks fastened to the ground. Can we offer a product that has a track system above the units.	01/21/13		
A42	Compliance with Section 10 56 26 is required for this work and Qwiktrak, with floor mounted rails, is the basis of design.	01/23/13	ADDMM #2	Design Collective
Q43	The unit specified is a post and wire configuration. Does the end user want 4-post shelving with solid steel shelving mounted on carriages or post and wire on casters?	01/21/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
A43	Compliance with Section 10 56 26 is mandatory. Post and wire shelving on casters does not meet the specification. The specification requires a system of shelving on carriages that run in tracks.	01/23/13	ADDM #2	Design Collective
Q44	Specs call for total load: 1000 lb/ft per carriage (section 2.2). The specified system does not utilize carriages. The system specified is post and wire mounted on casters. Which of the following configurations should be quoted: Post and wire on casters? Wire shelving mounted on carriages (1,000 lb/ft carriage capacity)? 4-post and solid steel shelving on carriages (1,000 lb/ft carriage capacity)?	01/21/13		
A44	The statement about the specified system is incorrect. The specified system requires shelving on carriages that utilize floor mounted tracks to run in. The specifications call for support of a total load of 1000 lbs/ft per carriage.	01/23/13	ADDM #2	Design Collective
Q45	What is being stored on these shelves?.	01/21/13		
A45	Medical devices and supplies but this question is of no relevance. Section 10 56 26 must be complied with, regardless of what will be stored on the shelves.	01/23/13	ADDM #2	Design Collective
Q46	The Rough Carpentry scope references design and shop drawings being required for the exterior wall framing system. The specification does not require these submittals. Will the Rough Carpentry Contractor be responsible for design and engineering of the exterior wall framing system?	01/21/13		
A46	Yes. Reference Addendum 01 Summary of Work - 07, 7.1.30.	01/21/13	ADDM #2	BANCROFT
Q47	Which package is responsible for the air infiltration barrier? Can a specification be provided for it	01/21/13		
A47	Note the spray foam insulation provides the air infiltration barrier so no additional air barrier is required. Yes. Spray foam insulation should lap air infiltration barrier and flashing a minimum of 6” at all conditions. 07 – General Trade Contractor shall furnish and install the air infiltration barrier. Specification enclosed.	01/21/13 Rev. 01/29/13	ADDM #2 ADDM #4	BSA+A BSA+A
Q48	Which package is responsible for the 3” spray insulation on the exterior walls?	01/21/13		
A48	07 – General Trade Contractor is responsible. Reference Addendum 01 Summary of Work – 07, 7.1.22	01/21/13	ADDM #2	BANCROFT
Q49	The specified curtain wall framing, per 084413-7, 2.1, is Kawneer 1600, 6 inch deep frames. This will work at most openings but will not meet wind loads at CW8, CW9, CW11 and CW12. Mid span steel support is needed regardless of the internal steel reinforcement used within the mullion.	01/21/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
A49	Provide mid span steel internal reinforcement.	01/23/13	ADDM #2	BSA+A
Q50	Page A131 - C108, C112 & C112A-Nothing is noted for floors/base in these areas, do you know what they are to get?	01/22/13		
A50	Items not noted or indicated with a dash are existing finishes to remain.	01/29/13	ADDM #4	BSA+A
Q51	Page A132 - C144 & C146-Does not show pattern for the two vcts requested	01/22/13		
A51	Refer to ASK-020.	01/29/13	ADDM #4	BSA+A
Q52	Page A135-A4 – C101-Does not show pattern for 3 vcts requested	01/22/13		
A52	Refer to ASK-021	01/29/13	ADDM #4	BSA+A
Q53	Page A134-A1 – C232 & C233 – B-4 (tile base) is shown for these vct areas, should it be B-3 (4.5” traditional cove base)	01/22/13		
A53	Classroom C232 & C233 base to be B-3	01/29/13	ADDM #4	BSA+A
Q54	Page A134 – C230 – B-1 (terrazzo) is shown for this vct area, should it be B-3 (4.5” traditional cove base)	01/22/13		
A54	Yes. Base to be B-3.	01/29/13	ADDM #4	BSA+A
Q55	Door C205 (Alt #4) listed as office is a closet pair. No hardware listed on Door Schedule.	01/22/13		
A55	Door C205 should receive hardware set 8.0 per ASK-016.	01/29/13	ADDM #4	BSA+A
Q56	Door C148.2 has Set 10 listed. Is this correct?	01/22/13		
A56	Door C148.2 should receive hardware set 11.0 in lieu of 10.0 per ASK-016	01/29/13	ADDM #4	BSA+A
Q57	Specification index lists 080671 as “Door Hardware Schedule” and 087100 as “Door Hardware”. Both these sections are 080671. The “Door Hardware Schedule” section only goes up to Set 18. There are 22 Sets listed on Door Schedule A401 and in “Door Hardware” section. It appears we should go by sets listed on drawings and per spec section “Door Hardware”. Please confirm.	01/22/13		
A57	Keep Specification Section 087100. This Section works in conjunction with Section 080671 since door hardware mfg. are listed in Section 087100.	01/23/13	ADDM #2	BSA+A
Q58	We will be bidding Package 16 – Specialties, and would like to request a substitution on the toilet partitions. We would like to offer MARLITE Stainless Steel as an accepted alternate to Section 102113. Please let me know if you need any additional information.	01/22/13		
A58	Provide specified toilet partition type as part of Bid. Substitution may be considered after award of Bid under Specification Section 012500 –	01/23/13	ADDM #2	BSA+A

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	Substitution Procedure.			
Q59	It looks like drawing E114-A4 is missing from the package.	01/22/13	ADDM #2	DEDC
A59	REFER TO SHEET E438-A4			
Q60	There are two doors C214 on base bid door schedule.	01/22/13		
A60	Refer to ASK-016	01/29/13	ADDM #4	BSA+A
Q61	Alternate #2 Door Schedule missing Door C228 (Seminar) shown on floor plan.	01/22/13		
A61	Refer to ASK-016	01/29/13	ADDM #4	BSA+A
Q62	Is there a specification on the Vacuum piping	01/23/13		
A62				
Q63	Several openings for Alt #6 have frame type F4. There is no frame type F4	01/23/13		
A63	Refer to ASK-018 issued with Addendum #4.	01/29/13	ADDM #4	BSA+A
Q64	In regards to the Selective Demo Bid Pack, does this pertain to architectural demo only (except the curtain walls both interior and exterior, as noted in item 3 of the summary) or will that contract be responsible to remove the MEP demo material after it is dropped to the floor by the respective trade or is that not to be included in that scope. Additionally, I assume all site demo is included in the site scope.	01/23/13		
A64	No. Reference Summary of Work 03 – Selective Demolition. 03 – Selective Demolition Contractor is responsible for all MEP demo. MEP Contractor’s to provide safing of MEP systems only. All site demo is included under 01 – Site Work Contractor.	01/23/13	ADDM #3	BANCROFT
Q65	There are two specification sections for laminate casework. Please advise what work the PL Lab Casework spec applies to so we know where you are expecting to have Epoxy resin Counters.	01/23/13		
A65	Section 12 35 53.16 governs the work shown on the A430 series sheets and the casework for the laboratories on the first floor.	1/23/13	ADDM #3	Design Collective
Q66	Please verify that ALL sinks and fixtures throughout are being provided by the plumbing contractor.	01/23/13		
A66	Yes. All sinks and plumbing fixtures are being provided 20 – Plumbing, Mechanical, & ATC Contractor.	01/23/13	ADDM #3	BANCROFT
Q67	Our contract scope indicates we own the Vessel sinks in the 4 bathrooms, yet the plumbing drawings call them out as drop-in stainless steel sinks. Please advise which is correct and if we do in fact own anything beyond the concrete counter and	01/23/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	supporting structure beneath.			
A67	Refer to Addendum #3, and sketch PSK-001 PSK-007, PSK-008 & PSK-009 for clarification. Vessel sinks shall be provided by 20 – Plumbing, Mechanical, & ATC Contractor.	1/24/13	ADDMM #3	DEDC
Q68	The supporting structure for the 4 Vessel sink details need sot improved upon greatly. Currently it is shown as a “suspended” configuration. With a 2” concrete counter, this will need substantial support carried from the floor to the bottom of the counter. Suspending this from the wall will not work. Please provide additional mounting details for these.	01/23/13		
A68	See future addendum for Restroom sink support steel.	01/28/13	ADDMM #4	MacEng
Q69	Are the counters and casework for Control Rooms C145 & C149 to be similar to 4/A434?	01/23/13		
A69	yes, that is correct.	01/23/13	ADDMM #3	Design Collective
Q70	Our contract scope indicates we own closet and utility shelving, however I am unable to locate any on the plans. Please advise if there is any shelving and if so, where it will be located.	01/23/13		
A70	Closet and utility shelving was deleted from the Summary of Work. Reference Addendum 01 Summary of Work – 07 – General Trades.	01/23/13	ADDMM #3	BANCROFT
Q71	The specification states Galv. Sch. 80 piping on the compressed air system...Can this be clarified? We have done medical offices, dentist offices, and other buildings of this nature and have always used Type L Copper on all the vac, air, and med lines.	01/23/13		
A71	Type-L copper is an acceptable alternative material to galvanized steel.	01/24/13	ADDMM #3	DEDC
Q72	Requested Substitution – Specification 102800 - Toilet, Bath and Laundry Accessories – to include Machflow MA09	01/23/13		
A72	Yes, this is an acceptable substitution. Provide Product data with Substitution Request.	01/25/13	ADDMM #3	BSA+A
Q73	Requested Substitution – Specification 074213 - Insulation Metal Panels – Specification 055813 – to include Kingspan	01/23/13		
A73	No, factory installed foam Metal Panel system matching basis for design will only be considered.	01/25/13	ADDMM #3	BSA+A
Q74	Specification section 055813- Metal Column Covers – Are there any other approved	01/23/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	manufacturers?			
A74	Other manufacturers will be considered for compliance with basis for design.	01/25/13	ADDM #3	BSA+A
Q75	Specification section 074213- Exterior Wall Panels – Are there any other approved manufacturers?	01/23/13		
A75	Other manufacturers will be considered for compliance with basis for design.	01/25/13	ADDM #3	BSA+A
Q76	Specification section 074213.19- Insulated Metal Wall Panels – Are there any other approved manufacturers?	01/23/13		
A76	Other manufacturers will be considered for compliance with basis for design.	01/25/13	ADDM #3	BSA+A
Q77	Summary of work for bid package 9 & 22 both notes scope of work to include column covers. Please clarify bid package	01/23/13		
A77	Reference Addendum 01. Column covers is included in Addendum 01 Summary of Work – 22 – Metal Wall Panel Systems and is excluded from Addendum 01 Summary of Wok – 09 – Roofing, Skylight, & Waterproofing.	01/23/13	ADDM #3	BANCROFT
Q78	Summary of work for bid package 22 notes roof screen panels by others. What bid package is this scheduled?	01/23/13		
A78	Roof screen panels is included in 06 – Structural & Misc. Steel Contractor.	01/23/13	ADDM #3	BANCROFT
Q79	Detail 5 A313 What bid package (9 or 22) is scheduled to provide this metal coping.	01/23/13		
A79	Detail 5 A313 metal coping is to be provided by 09 – Roofing, Skylight, & Waterproofing Contractor. Addendum 01 Summary of Wok – 09 – Roofing, Skylight, & Waterproofing 7.1.12.	01/13/13	ADDM #3	BANCROFT
Q80	Detail 5 A313 What bid package (9 or 22) is scheduled to install this metal coping.	01/23/13		
A80	Detail 5 A313 metal coping is to be installed by 09 – Roofing, Skylight, & Waterproofing Contractor. Addendum 01 Summary of Wok – 09 – Roofing, Skylight, & Waterproofing 7.1.12.	01/23/13	ADDM #3	BANCROFT
Q81	Detail 5 A180 What bid package (9 or 22) is scheduled to provide this metal coping.	01/23/13		
A81	Detail 5 A180 metal coping is to be provided by 09 – Roofing, Skylight, & Waterproofing Contractor.	01/13/13	ADDM #3	BANCROFT
Q82	Detail 5 A180 What bid package (9 or 22) is scheduled to install this metal coping.	01/23/13		
A82	Detail 5 A180 metal coping is to be installed by 09 – Roofing, Skylight, & Waterproofing Contractor.	01/23/13	ADDM #3	BANCROFT
Q83	Ref. specification section 010110, Summary of Work – 12 Ceramic Tile, page 4, paragraph 7.2.11, final cleaning. Please confirm that final cleaning by this	01/24/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	contractor is limited to cleaning upon completion of installation with final cleaning prior to the building turnover to be provided by the General Contractor.			
A83	Correct.	01/24/13	ADDM #3	BANCROFT
Q84	Ref. specification section 010110, Summary of Work – 13 Terrazzo, page 3, paragraphs 7.1.3 & 7.1.5, saw-cutting. Saw-cutting is typically completed by the Concrete Contractor shortly after the concrete is poured. Since spec section 010110, Summary of Work, 04 Concrete, paragraphs 7.1.10 and 7.1.17 note that saw cuts and control joints are to be provided by the Concrete Contractor we assume this will be removed from our scope of work unless otherwise advised.	01/24/13		
A84	Assumption is incorrect. 13 – Terrazzo Contractor shall be responsible for all saw cutting for work performed under this 13 – Terrazzo Summary of Work.	01/24/13	ADDM #3	BANCROFT
Q85	Ref. specification section 010110, Summary of Work – 13 Terrazzo, page 4, paragraph 7.1.16, protection. It is impossible to put a price on policing the job site to maintain temporary protection and removal after our work is complete and we are off the job. Please consider excluding (or re-assigning) maintenance and removal of temporary protection from this bid package. Please note we will not include temporary protection on stairs in our bid due to safety concerns.	01/24/13		
A85	13 – Terrazzo Summary of Work 7.1.16 is correct as written.	01/24/13	ADDM #3	BANCROFT
Q86	Ref. specification section 010110, Summary of Work – 13 Terrazzo, page 4, paragraph 7.1.12, Preparation of surfaces. We note that the Terrazzo contractor is to provide correction of minor deviations of flatness on the concrete substrate, based on a provided substrate flatness not to exceed a gap of ¼” in 10’-0” per specification section 03300, page 19, paragraph 3.11.D.2a, Finished Floors and Slabs.	01/24/13		
A86	13 – Terrazzo Summary of Work 7.1.12 is correct as written.	01/24/13	ADDM #3	BANCROFT
Q87	Ref. specification section 010110, Summary of Work – 13 Terrazzo, page 5, paragraph 7.2.11, final cleaning. Please confirm that final cleaning by this contractor is limited to cleaning upon completion of installation with final cleaning prior to the building turnover to be provided by the General Contractor.	01/24/13		
A87	Correct.	01/24/13	ADDM #3	BANCROFT
Q88	Ref. specification section 093103, Ceramic Tile, Page 11, Paragraph 3.6, Slate Installation. Upon review of the contract documents no slate work can be found. Please confirm there is no slate work on this project.	01/24/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
A88	No slate in project.	01/29/13	ADDM #4	BSA+A
Q89	Ref. specification section 093103 Ceramic Tile, page 12, paragraph 3.8.A& B, Floor and Wall Tile installation Schedule. We note that TCA installation methods F113 & W243 are specified for the floor and wall tile with a water based urethane grout. Upon review of the contract documents we could not find water based urethane grout in paragraph 2.5, Setting and Grouting Materials. Per the attached details from the 2012 TCNA handbook methods F113 and W243 are specified to use cementitious grout. We will assume cementitious grout is to be used for both floor and wall tile installations unless advised otherwise.	01/24/13		
A89	Provide cementitious grout.	01/29/13	ADDM #4	BSA+A
Q90	Ref. specification section 096623, Resinous Matrix Terrazzo Flooring, page 5, paragraph 2.1.B.4, Marble chips and aggregates. We note that marble chips and aggregates are listed in the specifications for this project. We assume the terrazzo will have only marble aggregates unless otherwise advised.	01/24/13		
A90	Correct.	01/29/13	ADDM #4	BSA+A
Q91	Ref. specification section 096623, Resinous Matrix Terrazzo Flooring, page 7, paragraph 2.4.D.1, Terrazzo Floor Tile. Please provide a manufacturer and series of the terrazzo tile to be used under this designation. Would poured-in-place epoxy terrazzo to match the Terrazzo in Lobby 112 & 212 be an acceptable approved equal for use in the elevator cab?	01/24/13		
A91	Wasua Tile	01/29/13	ADDM #4	BSA+A
Q92	Ref. specification section 096623, Resinous Matrix Terrazzo Flooring, page 7, paragraph 2.5.A, Precast manufactures. We assume Romoco Precast Terrazzo Products will be an approved manufacture for the precast treads and risers as they are listed on the precast base unless otherwise advised. Please see the attached literature for your reference.	01/24/13		
A92	Romoco Tile May be considered under Spec Section 012500 – Substitution Procedure after award of Bid.	01/29/13	ADDM #4	BSA+A
Q93	Ref. drawing A132, 1st Floor Finish Plan, Terrazzo Logo. Please provide additional details for the terrazzo logo in Lobby 100. We assume the use of no more than four colors on this logo unless advised otherwise.	01//24/13		
A93	No more than four (4) colors – Detail to be provided in Future ASI.	01/29/13	ADDM #4	BSA+A
Q94	Ref. drawing A132, 1st Floor Finish Plan and A134 2nd Floor Finish Plan, Stair	01/24/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	100/200. The referenced drawings indicate that W-1 wall finish is to be used in the stair well. As no elevations or details could be found to clarify the use of this finish, please confirm the intended height of the tile finish from the floor level.			
A94	Same as Lobby - Panels above base to ceiling. Refer to Elevation 4/A441	01/29/13	ADDM #4	BSA+A
Q95	Ref. drawing A601, Vertical Circulation – Stair Plans & Sections, Stair 100/200. We note that specification section 096623 indicates the use of ¾” thick Epoxy Terrazzo treads and risers however section detail #8 on drawing A601 depicts treads only. Please confirm that Stair 100/200 is to receive treads only. We assume these treads are non-structural unless advise otherwise.	01/24/13		
A95	Provide both risers & treads.	01/29/13	ADDM #4	BSA+A
Q96	Ref drawing A601, Vertical Circulation – Stair Plans & Sections, Interior Vestibule Stairs. We note that per detail #10 the precast terrazzo treads and risers are to receive end caps. Please provide clarification if the sloped surface between the stairs and the wall is to receive terrazzo flooring and wall base.	01/24/13		
A96	Yes. Precast flooring, precast wall base.	01/29/13	ADDM #4	BSA+A
Q97	In regards to the door schedule, are all glass doors and glazing for the other door types included in the rough carpentry scope or is that material to be included in the Curtain Wall, Store Front & Glazing Scope ?	01/24/13		
A97	Material for all the glass doors are covered in the Glazing Spec, with references in the Curtain Wall and Alum. Storefront Spec Sections	01/29/13	ADDM #4	BSA+A
Q98	Kawneer's engineering informed me this morning that the main entrance light box structure cannot be supported by the curtainwall framing. The vertical mullions will have internal steel windload reinforcing and will not be able to accomidate any other "embedded" steel that is shown on 8/S504. They also pointed out that this will void warranty.	01/24/13		
A98	Ok. MacEng will provide steel support for lightbox – See future Addendum.	1/28/13	ADDM #4	MacEng
Q99	Summary of Work – Site Work – 7.1.12 - Will other contractors place excavated materials on one stockpile or must the site contractor pick up excavated soils throughout the site ?(to be disposed of by Site Contractor).	01/24/13		
A99	Other Contractor to place excavated materials on one stockpile with all haul-off disposed of by the 01 - Site Work Contractor.	01/24/13	ADDM #3	BANCROFT
Q100	Summary of Work – Site Work – 7.1.22 - Will the gas service be installed by Delmarva Power and light	01/24/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
A100	No. Gas service shall be installed by 01 - Site Work Contractor.	01/24/13	ADDM #3	BANCROFT
Q101	Summary of Work – Site Work – 7.1.39 - Provide typical section showing sub base materials and pavers.Provide specification and color for type of brick to be used.	01/24/13		
A101				
Q102	Summary of Work – Site Work – 7.1.49 - provide detailed plan showing limits of striping.provide detail showing traffic and parking signage	01/24/13		
A102				
Q103	Please confirm Vessel sinks are by others at the restrooms shown on A437.	01/24/13		
A103	All vessel sinks shall be provided by 20 – Plumbing, Mechanical, & ATC Contractor.	01/25/13	ADDM #3	BANCROFT
Q104	The concrete tops will need tube steel structural support (not by me- misc. metals) or some type of support to the floor. The drawings do not show this, can this be clarified as to how the weight will be supported?	01/24/13		
A104	07 – General Trades Contractor shall be responsible for concrete top support. Reference Addendum 01 - 07 – General Trades Summary of Work 7.1.16.		ADDM #3	BANCROFT
Q105	The reception desk concrete top- Is there a concrete end panel? If not, what is the end panel?	01/24/13		
A105	It is a concrete end panel on one side only and a stainless steel standoff to support it from the desk on the other.	01/25/13	ADDM #3	BSA+A
Q106	Please confirm Vessel sinks are by others at the restrooms shown on A437.	01/24/13		
A106	Reference the Answer to Question 103.	01/25/13	ADDM #3	BANCROFT
Q107	The concrete tops will need tube steel structural support (not by me- misc. metals) or some type of support to the floor. The drawings do not show this, can this be clarified as to how the weight will be supported?	01/24/13		
A107	Reference the Answer to Question 104.	01/24/13	ADDM #3	BANCROFT
Q108	The reception desk concrete top- Is there a concrete end panel? If not, what is the end panel? (support issue)	01/24/13		
A108	Reference the Answer to Question 105.	01/25/13	ADDM #3	BANCROFT
Q109	Specification section 074213.19- Insulated Metal Wall Panels – Is the panel surface scheduled to be smooth or stucco embossed?	01/24/13		
A109	Provide Smooth finish.	01/29/13	ADDM #4	BSA+A
Q110	Drawing A171- Roof Plan- General Note 7 “ Typical insulation to be 3” (2) layers	01/24/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	of 1 ½” (=R-18). Specification section 075323 Part 2.4B notes 3” minimum insulation. Please note that this does not meet the “ Minimum R-30 insulation” as per note 3 on A171. Please clarify if a minimum of R-30 is required or (2) layers of 1 ½” is scheduled.			
A110	Revise notes to Provide (2) layers of 2” insulation (R-20) per ASK-017.	01/29/13	ADDM #4	BSA+A
Q111	Summary of work 09- Item 7.1.9 Notes” Furnish and install all waterproofing as shown on contract documents including the elevator pit walls...” The drawings do not indicate waterproofing at any location including the elevator pit. There is no specification for waterproofing. Please clarify if this is scheduled to be installed at the elevator pit only and provide a specification.	01/24/13		
A111	Correct. Reference Addendum 01 – 09 – Roofing, Skylight, & Waterproofing Summary of Work 7.1.8.	01/24/13	ADDM #3	BANCROFT
Q112	Substitution request to Kingspan Benchmark, DesignWall, 200H - Substitution request for the insulated metal panels as well as attachments that accompany the request. If the architect will not accept another manufacturer prior to the bid, the chances are very high that Centria, knowing they have no competition, will put out a very elevated price.	01/24/13		
A112				
Q113	Substitution request to Quality Metalcrafts, Ameri clad, AC-1000 - Substitution request for the composite column covers as well as attachments that accompany the request.	01/24/13		
A113				
Q114	Section 230760: Is AAON an acceptable alternative to the specified manufacturers.	01/24/13		
A114	AAON is an acceptable alternative manufacturer, provided the equipment meets all specified performance, construction, and physical criteria in the contract documents.	01/24/13	ADDM #3	DEDC
Q115	Ref. specification section 093103, Ceramic Tile, Page 5, Paragraph 2.3.B, Glazed Ceramic Mosaic Tile WT-1. The specification is indicating that a 6”x6” tile is to be used with a color per the finish legend. However the finish legend on drawing A134-A3 indicates a 12”x24” tile is to be used with a color to be determined. Please confirm the tile size and color group to be used for this finish.	01/25/13		
A115	12” x 24” Tiles – Group I, Cross Sheen Finish	01/29/13	ADDM #4	BSA+A
Q116	Ref. specification section 093103, Ceramic Tile, Page 5, Paragraph 2.3.C, Glazed	01/25/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	Ceramic Mosaic Tile FT-1. The specification is indicating that a 12"x24" tile is to be used. However the finish legend on drawing A134-A3 indicates an 8"x24" tile is to be used. As there is no 8"x24" tile size available in this by the manufacture in this series we will assume the use of a 12"x24" tile unless advised otherwise.			
A116	Tile size 6" x 24"	01/29/13	ADDM #4	BSA+A
Q117	Ref. drawing A134-A1, Second Floor Finish Plan, General Finish Notes. Note #4 indicates that Men's and Women's Rooms require full height W-1 tile at wet walls with all other walls to receive a 48" wainscot. We assume wet walls to be at the urinals and toilets only, unless otherwise advised.	01/25/13		
A117	Full height all walls. Alt. #4 Full height at wet wall only as noted.	01/29/13	ADDM #4	BSA+A
Q118	We would like to know who is to supply the hardware, Posts & railings for the Glass Stair Railings? The Structural & Misc. Steel, Masons or Glaziers? Please advise.	01/25/13		
A118	Posts and railings for the interior and exterior glass guardrail and handrail systems shall be by the 11 – Curtain Wall, Storefront, & Glazing Contractor. Reference Addendum 01 – 11 – Curtain Wall, Storefront, & Glazing Summary of Work 7.1.9.	01/28/13	ADDM #4	BANCROFT
Q119	Hardware set is missing from door number C205. Also for some reason there are two hardware schedules in the specs. Not sure why	01/25/13		
A119				
Q120	Drawing A502, Detail 10 - What bid package is scheduled to provide and install this "breakmetal cap"?	01/25/13		
A120	09 – Roofing, Skylight & Waterproofing Contractor shall provide and install this "breakmetal cap". Reference Addendum 01 – 09 – Roofing, Skylight & Waterproofing Summary of Work 7.1.13	01/28/13	ADDM #4	BANCROFT
Q121	Drawings note " 5/8" Sheathing". Specification 092900- 2.5 Notes " Exterior gypsum board...". Please clarify sheathing type and note that Dens-glass is not an approved substrate for EPDM roofing. DensDeck or plywood sheathing are approved substrates.	01/25/13		
A121	New Spec Section 061600 – Sheathing Is being further clarified in the project manual.	01/29/13	ADDM #4	BSA+A
Q122	On Drawings M112 & M114 the new diffusers and grills are not specified.	01/25/13		
A122	ALL NEW DIFFUSERS TO BE <u>CD-2</u>, 8" ROUND INLET W/ 8" ROUND	01/28/13	ADDM #4	DEDC



Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	FLEX RUNOUTS. ALL NEW GRILLES TO BE CR-1. REFER TO SCHEDULES ON SHEET M-601.			
Q123	Is there going to be another walk thru or can contractors schedule their own site visits?	01/25/13		
A123	No.	01/28/13	ADDM #4	BANCROFT
Q124	Is Bancroft supplying a dumpster for construction waste or demoed materials?	01/25/13		
A124	Yes. Bancroft is supplying all dumpsters for construction waste and demoed materials at a centralized on-site location. Contractor shall provide all collection and hauling of material to dumpsters provided by Bancroft.	01/28/13	ADDM #4	BANCROFT
Q125	Substitution request to Firestone’s UNA FOAM Flat Panels in lieu of Centria Formabond Dimension series panels specified. Attached please find two comparable product submissions for the project referenced above. Let me know if there are any questions or if supplemental information is required in considering our Firestone metal wall products.	01/25/13		
A125				
Q126	Substitution request to Firestone’s Series 1200 in lieu of Centria Formabond II panels specified. Attached please find two comparable product submissions for the project referenced above. Let me know if there are any questions or if supplemental information is required in considering our Firestone metal wall products.	01/25/13		
A126	You are correct, the triangles should be reversed. Open = Wind Moment & Closed = Full Penetration Welded Connection. See future addendum for sketches.	1/28/13	ADDM #4	MacEng
Q127	Drawings(Moment Connections): Per Structural Plan “Notes” they are calling out Wind Moment Connections with the filled/darkened triangle symbol and Full Penetration Welded Moments W/ a Non-Shaded Triangle. Please Verify that this is correct as it is usually reversed and especially along column lines I & B on Sheet S103, I would assume that those beams cantilevering would need to be Full Penetration Welded Connections not Bolted as stated on the drawings.	01/25/13		
A127				
Q128	Summary of Work: Per S.O.W 06 (Dated 1/17/13) Section– 7.1.18, Please Verify that the steel contractor is responsible for hoisting mesh and rebar for other trades.	01/25/13		
A128	Correct.	01/28/13	ADDM #4	BANCROFT

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
Q129	Summary of Work: Per S.O.W 06 (Dated 1/17/13) Section- 7.1.14, Please Verify that we are to install toe plates along with our a Perimeter Safety Cables, as this is usually picked by the carpenter.	01/25/13		
A129	Correct.	01/28/13	ADDM #4	BANCROFT
Q130	Spec Section 055000: Please Verify if Structural Steel & Misc Contractor owns the following items corner guards & Down Spout Boots.	01/25/13		
A130	Correct.	01/28/13	ADDM #4	BANCROFT
Q131	Summary of Work: Per S.O.W 06 (Dated 1/17/13) Section – 7.1.10, Please Verify that screen wall steel will be Painted and not Galvanized. Also Please Verify if the Steel Contractor owns the metal panels and fasteners for the screen. As it states in Section 3.1.4, that we do not own any Insulated or Non Insulated Metals Panels.	01/25/13		
A131	Structural steel framing for the screen wall to be factory primed, finish painting by 15 – Painting Contractor. Metal panels to be factory finished by 06 – Structural & Misc. Steel Contractor. 06 – Structural & Misc. Steel Contractor to provide metal panels and fasteners for the equipment screen ONLY. All other insulated and non-insulated metal panels by 22 – Metal Wall Panel System Contractor.	01/28/13	ADDM #4	BANCROFT
Q132	Summary of Work: Per S.O.W 06 (Dated 1/17/13) Section – 3.1.3, Please Verify that the Steel Misc. Contractor does not own Any/All Glass Filled Rails including railing system guardrails & sleeves. BUT do we own the Stair Stringers for Stair100? The following are rails that I am assuming will not be owned by the Misc. Steel Contractor: <ul style="list-style-type: none"> • Glass Rails @ Stair S100 Per Detail 12/A601 • Exterior Glass Rails Per 6/A601 • Exterior Glass Railing @ Vestibule Per Details 8&10/A501 • Interior Elevator Lobby Rails Per Detail 3/A501 	01/25/13		
A132	Correct. 06 – Structural & Misc. Steel shall provide pipe handrail per detail 3 & 5 on A60.1.	01/28/13	ADDM #4	BANCROFT
Q133	Per Addendum 1: Please Verify per Addendum the following items are no longer in the Structural & Misc. Steel Package: Steel Framing for Countertops – Ref. S.O.W 07 – 7.1.16 & 7.1.18 Misc Steel Supports for Mech & Elec. Contractors (We Will Own Roof Frames) Ref S.O.W. 20 – 7.1.36	01/25/13		

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
A133	Correct, unless detailed on Structural Drawings. Future addendum of the countertop supports shall be the responsibility of the 07 – General Trades Contractor.	01/28/13	ADDM #4	BANCROFT
Q134	Schedule: Per the bid Schedule it seems that you have the Steel Contractor Detailing the Steel after its expected to be Fabbed & Installed Please Advise.	01/25/13		
A134	ID 163 “Detail Structural Steel” is in reference to plumbing, adjusting, and final completion of the structural steel. ID 163 is NOT in reference to detailing for submittals and shop drawings.	01/28/13	ADDM #4	BANCROFT
Q135	In Addendum #1 the gas line from the existing main to the meter was added to the sitework scope of work. We are about 99% certain that DP&L must perform this work from the tap at the main to the meter. The sitework contractor will sometimes excavate and backfill the trench but cannot do the pipe installation work. In most cases Delmarva Power self performs all of the work including the excavation and backfill. Can we get the gas line work put back into the “Work by Others” section in the Sitework Summary of Work?	01/25/13		
A135	No. 01 – Site Work Contractor shall be responsible for this work.	01/28/13	ADDM #4	BANCROFT
Q136	Douron intends to provide pricing as a Sub Contractor for the Mobile Storage Shelving, section 105626. After Looking over the bid specifications, I noticed that the basis of design contradicts what is actually called out in the specifications. I attached a cut sheet of the system that is the basis of design for your review. None of the other acceptable manufacturers fabricate their mobile systems this way. Datum, Montel, and SpaceSaver, all have steel carriages that the shelving is attached to. (i.e. Section 2.3 C – Carriages requires a rigid frame of C-shaped cold-formed steel. The manufacturer’s system listed as the basis of design does not have this characteristic.) Will you please clarify if you are looking for a heavier duty Mobile Shelving System similar to what the acceptable manufacturers produce or a lighter weight system similar to the one listed as the basis of design (Qwiktrak by Metro)?	01/25/13		
A136				
Q137	Can MC be used on branch lighting & branch power circuits?	01/25/13		
A137	Installation of MC cable, EMT or rigid conduits shall be provided from the branch, distribution panel, etc.. to the specified space, at this location (MC) may only be used in concealed wall spaces. Using FMC for lighting shall be	01/28/13	ADDM #4	DEDC

Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	installed as noted in specification section 260533, 3.2 Raceway Requirements #5. But shall start with EMT or Rigid			
Q138	Can you clarify that Liquidated Damages are N/A on this project.	01/25/13		
A138	There is no Liquidated Damages on this project.	01/28/13	ADDM #4	BANCROFT
Q139	The Spec Book states that we can run HCFC (hospital grade MC Cable) where concealed in walls but I'm wondering if we can also run where concealed in all building construction? (above drop ceilings, drywall ceilings etc.)	01/25/13		
A139	Reference Answer to Question 137	01/29/13	ADDM #4	BANCROFT
Q140	RFI log #47 in Addendum #2 states that the spray insulation will provide the air infiltration barrier. While this is correct there are areas at metal panel installation that show an air infiltration barrier where there is no spray insulation. We will need a specification for these areas.	01/25/13		
A140	Reference revised 01/29/13 answer to Question #47.	01/29/13	ADDM #4	BANCROFT
Q141	Does the Demolition contractor own a temporary plywood enclosure upon removal of the existing curtain wall?	01/25/13		
A141	No. 07 – General Trades Contractor shall be responsible for a temporary construction partition. Reference Addendum 01 – 07 - General Trades Summary of Work 7.1.29.	01/28/13	ADDM #4	BANCROFT
Q142	General Trades scope item 7.1.39 states to install mechanical, electrical, and plumbing access panels. Please provide a quantity or an allowance for bidding purposes.	01/25/13		
A142	A quantity is not available.	01/28/13	ADDM #4	BANCROFT
Q143	Visual Display Boards are specified, but not on the drawings. Please provide a quantity or locations.	01/25/13		
A143				
Q144	General Trades scope item 7.1.65 states to “Include all scaffolding”. If the General Trades contractor is to provide scaffolding for all trades to use, please provide locations where scaffolding is desired, along with estimated time durations. I would suggest that each trade be responsible for access to their work, whether it be scaffolding or lifts.	01/25/13		
A144	Unclear where this is stated. Addendum 01 – 07 - General Trades Summary of Work 7.1.91 indicates scaffolding requirement. Reference individual Summary of Work for whom is responsible for scaffolding and or	01/28/13	ADDM #4	BANCROFT



Contractor Requests For Information

ITEM	Q & A	DATE	ISSUED	Answered By
	hoisting/access of personnel and materials.			

SECTION 061600 – SHEATHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. . Division 01 Section 017419 – Construction Waste Management.

1.2 SUMMARY

A. Section Includes:

- 1. Wall sheathing.
- 2. Roof sheathing.
- 3. Subflooring.
- 4. Underlayment.
- 5. Sheathing joint and penetration treatment.

B. Related Requirements:

- 1. Division 06 Section "Rough Carpentry" for plywood backing panels.
- 2. Division 07 Section "Thermal Insulation" for Close Cell Spray Foam Insulation air - resistive barrier applied over wall sheathing.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

- 1. Include data for wood-preserved treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Indicate type of preservative used and net amount of preservative retained.
- 2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Include physical properties of treated materials.
- 3. For fire-retardant treatments, include physical properties of treated plywood both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency according to ASTM D 5516.
- 4. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
- 5. Include copies of warranties from chemical treatment manufacturers for each type of treatment.

1.4 INFORMATIONAL SUBMITTALS

A. Evaluation Reports: For following products, from ICC-ES:

1. Preservative-treated plywood.
2. Fire-retardant-treated plywood.

1.5 QUALITY ASSURANCE

A. Testing Agency Qualifications: For testing agency providing classification marking for fire-retardant-treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Stack panels flat with spacers beneath and between each bundle to provide air circulation. Protect sheathing from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For assemblies with fire-resistance ratings, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction.
1. Fire-Resistance Ratings: Indicated by design designations from UL's "Fire Resistance Directory."

2.2 WOOD PANEL PRODUCTS

- A. Plywood: Either DOC PS 1 or DOC PS 2 unless otherwise indicated.
- B. Thickness: As needed to comply with requirements specified, but not less than thickness indicated.
- C. Factory mark panels to indicate compliance with applicable standard.

2.3 PRESERVATIVE-TREATED PLYWOOD

- A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.
1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
- B. Mark plywood with appropriate classification marking of an inspection agency acceptable to authorities having jurisdiction.
- C. Application: Treat items indicated on Drawings and plywood in contact with masonry or concrete or used with roofing, flashing, vapor barriers, and waterproofing.

2.4 FIRE-RETARDANT-TREATED PLYWOOD

- A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.
- B. Fire-Retardant-Treated Plywood by Pressure Process: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
1. Use treatment that does not promote corrosion of metal fasteners.
 2. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.
 3. Design Value Adjustment Factors: Treated lumber plywood shall be tested according to ASTM D 5516 and design value adjustment factors shall be calculated according to ASTM D 6305. Span ratings after treatment shall be not less than span ratings specified. For roof sheathing and where high-temperature fire-retardant treatment is indicated, span ratings for temperatures up to 170 deg F (76 deg C) shall be not less than span ratings specified.
- C. Kiln-dry material after treatment to a maximum moisture content of 15 percent. Do not use material that is warped or does not comply with requirements for untreated material.
- D. Identify fire-retardant-treated plywood with appropriate classification marking of qualified testing agency.
- E. Application: Treat plywood indicated on Drawings, and the following:
1. Roof and wall sheathing within 48 inches (1220 mm) of fire party walls.

2. Roof sheathing.
3. Subflooring and underlayment for raised platforms.

2.5 WALL SHEATHING

A. Glass-Mat Gypsum Wall Sheathing: ASTM C 1177/1177M.

1. Products: Subject to compliance with requirements, provide one of the following:
 - a. CertainTeed Corporation; GlasRoc.
 - b. G-P Gypsum Corporation; Dens-Glass Gold.
 - c. Temple-Inland Inc.; GreenGlass
 - d. United States Gypsum Co.; Securock.
2. Type and Thickness: Type X, 5/8 inch (15.9 mm) thick.
3. Size: 48 by 96 inches (1219 by 2438 mm) for vertical installation.

2.6 ROOF SHEATHING

A. Plywood Roof Sheathing: Exterior, Structural I sheathing.

1. Span Rating: Not less than 32/16.
2. Nominal Thickness: Not less than 5/8 inch (16 mm).
3. Fire retardant treated plywood, typical unless noted otherwise.

2.7 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. For roof and wall sheathing, provide fasteners of Type 304 stainless steel.

B. Nails, Brads, and Staples: ASTM F 1667.

C. Power-Driven Fasteners: NES NER-272.

D. Wood Screws: ASME B18.6.1.

E. Screws for Fastening Wood Structural Panels to Cold-Formed Metal Framing: ASTM C 954, except with wafer heads and reamer wings, length as recommended by screw manufacturer for material being fastened.

1. For wall and roof sheathing panels, provide screws with organic-polymer or other corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.

F. Screws for Fastening Gypsum Sheathing to Cold-Formed Metal Framing: Steel drill screws, in length recommended by sheathing manufacturer for thickness of sheathing to be attached, with organic-polymer or other corrosion-protective coating having a salt-spray resistance of more than 800 hours according to ASTM B 117.

1. For steel framing from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick, use screws that comply with ASTM C 954.

2.8 SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS

A. Sealant for Glass-Mat Gypsum Sheathing: Silicone emulsion sealant complying with ASTM C 834, compatible with sheathing tape and sheathing and recommended by tape and sheathing manufacturers for use with glass-fiber sheathing tape and for covering exposed fasteners.

1. Sheathing Tape: Self-adhering glass-fiber tape, minimum 2 inches (50 mm) wide, 10 by 10 or 10 by 20 threads/inch (390 by 390 or 390 by 780 threads/m), of type recommended by sheathing and tape manufacturers for use with silicone emulsion sealant in sealing joints in glass-mat gypsum sheathing and with a history of successful in-service use.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.

B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.

C. Securely attach to substrate by fastening as indicated, complying with the following:

1. NES NER-272 for power-driven fasteners.
2. Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code."

D. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections. Install fasteners without splitting wood.

E. Coordinate wall and roof sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.

F. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.

- G. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.

3.2 WOOD STRUCTURAL PANEL INSTALLATION

A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.

B. Fastening Methods: Fasten panels as indicated below:

1. Combination Subfloor-Underlayment:
 - a. Glue and nail to wood framing.
 - b. Screw to cold-formed metal framing.
 - c. Space panels 1/8 inch (3 mm) apart at edges and ends.
2. Subflooring:
 - a. Glue and nail to wood framing.
 - b. Screw to cold-formed metal framing.
 - c. Space panels 1/8 inch (3 mm) apart at edges and ends.
3. Wall and Roof Sheathing:
 - a. Screw to cold-formed metal framing.
 - b. Space panels 1/8 inch (3 mm) apart at edges and ends.

3.3 GYPSUM SHEATHING INSTALLATION

A. Comply with GA-253 and with manufacturer's written instructions.

1. Fasten gypsum sheathing to cold-formed metal framing with screws.
2. Install boards with a 3/8-inch (9.5-mm) gap where non-load-bearing construction abuts structural elements.
3. Install boards with a 1/4-inch (6.4-mm) gap where they abut masonry or similar materials that might retain moisture, to prevent wicking.

B. Apply fasteners so heads bear tightly against face of sheathing, but do not cut into facing.

C. Horizontal Installation: Install sheathing with V-grooved edge down and tongue edge up. Interlock tongue with groove to bring long edges in contact with edges of adjacent boards without forcing. Abut ends of boards over centers of studs, and stagger end joints of adjacent boards not less than one stud spacing. Attach boards at perimeter and within field of board to each steel stud.

1. Space fasteners approximately 8 inches (200 mm) o.c. and set back a minimum of 3/8 inch (9.5 mm) from edges and ends of boards.

D. Vertical Installation: Install board vertical edges centered over studs. Abut ends and edges of each board with those of adjacent boards. Attach boards at perimeter and within field of board to each stud.

1. Space fasteners approximately 8 inches (200 mm) o.c. and set back a minimum of 3/8 inch (9.5 mm) from edges and ends of boards.

E. Seal sheathing joints according to sheathing manufacturer's written instructions.

1. Apply glass-fiber sheathing tape to glass-mat gypsum sheathing joints and apply and trowel silicone emulsion sealant to embed entire face of tape in sealant. Apply sealant to exposed fasteners with a trowel so fasteners are completely covered. Seal other penetrations and openings.

3.4 CEMENTITIOUS BACKER UNIT INSTALLATION

A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated.

END OF SECTION 061600

SECTION 072500 - WEATHER BARRIERS (AIR INFILTRATION BARRIERS)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

- 1. Building paper.
- 2. Building wrap.
- 3. Flexible flashing.

B. Related Requirements:

- 1. Section 061600 "Sheathing" for sheathing joint and penetration treatment.
- 2. Section 072100 "Thermal Insulation" for spray foam insulation applied over wall sheathing acting as an integral 'air barrier'.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

- 1. For building wrap, include data on air and water-vapor permeance based on testing according to referenced standards.

1.4 INFORMATIONAL SUBMITTALS

A. Evaluation Reports: For water-resistive barrier and flexible flashing, from ICC-ES.

PART 2 - PRODUCTS

2.1 WATER-RESISTIVE BARRIER

- A. Building Paper: ASTM D 226, Type 1 (No. 15 asphalt-saturated organic felt), unperforated.
- B. Building Paper: Water-vapor-permeable, asphalt-saturated kraft building paper.

1. Water vapor transmission not less than 35 g/sq. m x 24 hr per ASTM D 779.
 2. Water resistance not less than 20 minutes per ASTM F 1249.
- C. Building Wrap: ASTM E 1677, Type I air barrier; with flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E 84; UV stabilized; and acceptable to authorities having jurisdiction.
1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Dow Chemical Company (The); Styrofoam Weathermate Plus Brand Housewrap.
 - b. DuPont (E. I. du Pont de Nemours and Company); Tyvek Commercial Wrap
 - c. Ludlow Coated Products; Air Stop Housewrap.
 - d. Pactiv, Inc.; GreenGuard Classic Wrap.
 - e. Raven Industries Inc.; Fortress Pro Weather Protective Barrier.
 - f. Reemay, Inc.; Typar HouseWrap.
 2. Water-Vapor Permeance: Not less than 125 g through 1 sq. m of surface in 24 hours per ASTM E 96/E 96M, Desiccant Method (Procedure A).
 3. Allowable UV Exposure Time: Not less than three months.
- D. Building-Wrap Tape: Pressure-sensitive plastic tape recommended by building-wrap manufacturer for sealing joints and penetrations in building wrap.

2.2 MISCELLANEOUS MATERIALS

- A. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber or rubberized-asphalt compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than **0.025 inch (0.6 mm)**.
1. Products: Subject to compliance with requirements, provide one of the following:
 - a. DuPont (E. I. du Pont de Nemours and Company); DuPont Flashing Tape.
 - b. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Vycor Butyl Self Adhered Flashing.
 - c. Protecto Wrap Company; BT-25 XL.
 - d. Raven Industries Inc.; Fortress Flashshield.
 - e. Advanced Building Products Inc.; Wind-o-wrap.
 - f. Carlisle Coatings & Waterproofing; CCW-705-TWF Thru-Wall Flashing.
 - g. Fiberweb, Clark Hammerbeam Corp.; Aquaflash 500.
 - h. Fortifiber Building Systems Group; Fortiflash 25.
 - i. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Vycor Plus Self-Adhered Flashing.
 - j. MFM Building Products Corp.; Window Wrap.
 - k. Polyguard Products, Inc.; Polyguard JT-20 Tape.
 - l. Sandell Manufacturing Co., Inc.; Presto-Seal.
- B. Primer for Flexible Flashing: Product recommended by manufacturer of flexible flashing for substrate.

- C. Nails and Staples: ASTM F 1667.

PART 3 - EXECUTION

3.1 WATER-RESISTIVE BARRIER INSTALLATION

- A. Cover exposed exterior surface of sheathing with water-resistive barrier securely fastened to framing immediately after sheathing is installed.
- B. Cover sheathing with water-resistive barrier as follows:
 - 1. Cut back barrier **1/2 inch (13 mm)** on each side of the break in supporting members at expansion- or control-joint locations.
 - 2. Apply barrier to cover vertical flashing with a minimum **4-inch (100-mm)** overlap unless otherwise indicated.
- C. Building Wrap: Comply with manufacturer's written instructions.
 - 1. Seal seams, edges, fasteners, and penetrations with tape.
 - 2. Extend into jambs of openings and seal corners with tape.

3.2 FLEXIBLE FLASHING INSTALLATION

- A. Apply flexible flashing where indicated to comply with manufacturer's written instructions.
 - 1. Prime substrates as recommended by flashing manufacturer.
 - 2. Lap seams and junctures with other materials at least **4 inches (100 mm)** except that at flashing flanges of other construction, laps need not exceed flange width.
 - 3. Lap flashing over water-resistive barrier at bottom and sides of openings.
 - 4. Lap water-resistive barrier over flashing at heads of openings.
 - 5. After flashing has been applied, roll surfaces with a hard rubber or metal roller to ensure that flashing is completely adhered to substrates.

END OF SECTION 072500

SECTION 076200 – SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following manufactured roof specialties:
 - 1. Copings, including curved, corners and special shapes.
 - 2. Roof edge flashings, edge drips and vented edge drips.
 - 3. Roof edge drainage systems (gutter and downspouts) Counterflashings and reglets.
 - 4. Formed equipment support flashing.
- B. Related Sections include the following:
 - 1. Division 01 Section 017419 – Construction Waste Management.
 - 2. Division 4 Section "Unit Masonry" for reglets and thru-wall flashing.
 - 3. Division 6 Section "Miscellaneous Carpentry" for wood nailers, curbs, and blocking.
 - 4. Division 7 Section "Roof Accessories" for set-on-type curbs, equipment supports, roof hatches, vents, roof expansion-joint covers and other manufactured roof accessory units.
 - 5. Division 7 Section "Metal Wall Panels"
 - 6. Division 7 Section "Joint Sealants" for field-applied sealants.

1.3 PERFORMANCE REQUIREMENTS

- A. General: Manufacture and install manufactured roof specialties to resist thermally induced movement and exposure to weather without failing, rattling, leaking, and fastener disengagement.
- B. Manufacture and install copings and roof edge flashings tested according to SPRI ES-1 and capable of resisting the following design pressures:
 - 1. Design Pressure: 50 PSF Typical; 60 PSF pressure at building corners.
- C. Thermal Movements: Provide manufactured roof specialties that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, hole elongation, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Provide clips that resist rotation and avoid shear stress as a result of thermal movements. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): 100 deg F, ambient; 150 deg F material surfaces.

D. Water Infiltration: Provide manufactured roof specialties that do not allow water infiltration to building interior.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Show layouts of manufactured roof specialties, including plans and elevations. Identify factory vs. field-assembled work. Include the following:

1. Details for fastening, joining, supporting, and anchoring manufactured roof specialties including fasteners, clips, cleats, and attachments to adjoining work.
2. Details for expansion and contraction.

C. Samples for Initial Selection: For each type of manufactured roof specialty indicated with factory-applied color finishes.

D. Fabrication Samples: Upon request, provide copings, roof edge flashings, or counterflashings and reglets made from 12-inch (300-mm) lengths of full-size components including fasteners, cover joints, accessories, and attachments.

E. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, verifying compliance of copings and roof edge flashings with performance requirements.

F. Warranty: Special warranty specified in this Section.

1.5 QUALITY ASSURANCE

A. Product Options: Information on Drawings and in Specifications establishes requirements for system's aesthetic effects and performance characteristics. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction. Performance characteristics are indicated by criteria subject to verification by one or more methods including preconstruction testing, field testing, and in-service performance.

1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.6 COORDINATION

A. Coordinate installation of sheet metal flashing and trim with interfacing and adjoining construction to provide a leakproof, secure, and noncorrosive installation.

1.7 WARRANTY

- A. Special Warranty on Painted Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace manufactured roof specialties that show evidence of deterioration of factory-applied finishes within specified warranty period.
1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
 2. Basis-of-Design Product: The design for the product(s) identified is based on the product named. The use of a trade name and/or suppliers name and address in the specifications is to indicate a possible source of the product and a standard of quality. Products of the same type from other sources shall not be excluded, provided they possess like physical and functional and aesthetic characteristics. Refer to Division 1, "Product Requirements" for process to obtain approval of other products.

2.2 EXPOSED METALS

- A. Aluminum Sheet: ASTM B 209 (ASTM B 209M), alloy and temper recommended by manufacturer for use and finish indicated, finished as follows:
1. Surface: Smooth, flat finish.
 2. High-Performance Organic Finish: AA-C12C42R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: acid-chromate-fluoride-phosphate conversion coating; Organic Coating: as specified below). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - a. Two-Coat Fluoropolymer: AAMA 620. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

- B. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), alloy and temper recommended by manufacturer for type of use and finish indicated, finished as follows:
 - 1. High-Performance Organic Finish: AA-C12C42R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: acid-chromate-fluoride-phosphate conversion coating; Organic Coating: as specified below). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - a. Two-Coat Fluoropolymer: AAMA 620. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
- C. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304, No. 2B (bright, reflective) finish, with hem edges.
 - 1. Provide stainless steel flashing where metal flashing is indicated on drawings at exterior walls where used in conjunction with membrane flashing.
 - 2. Other locations on the drawing where not part of a manufactured (aluminum) roof coping and manufactured (aluminum) roof flashing systems.

2.3 CONCEALED METALS

- A. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304, with hem edges typical.

2.4 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, protective coatings, separators, sealants, and other miscellaneous items required by manufacturer for a complete installation.
- B. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to withstand design loads.
 - 1. Exposed Penetrating Fasteners: Gasketed screws with hex washer heads matching color of sheet metal.
 - 2. Provide stainless steel screws, bolts and fasteners where attached or anchored to treated lumber blocking.
- C. Sealing Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealing tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape.
- D. Elastomeric Sealant: ASTM C 920, elastomeric silicone polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.

- E. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant, polyisobutylene plasticized, heavy bodied for hooked-type expansion joints with limited movement.
- F. Bituminous Coating: Cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil (0.4-mm) dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.
- G. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.
- H. Polyethylene Sheet: 6-mil- (0.15-mm-) thick polyethylene sheets complying with ASTM D 4397.
- I. Felt: ASTM D 226, Type II (No. 30), asphalt-saturated organic felt, nonperforated.
 - 1. Slip Sheet: Rosin-sized paper, minimum 3 lb/100 sq. ft. (0.16 kg/sq. m).

2.5 MANUFACTURED ROOF COPINGS

- A. Copings: Manufactured coping system consisting of formed-metal coping cap in section lengths not exceeding 12 feet concealed anchorage, concealed splice plates with same finish as coping caps, mitered corner units, and end cap units, including curved, corners and special shapes.
- B. Basis-of-Design Product:
 - 1. Metal-Era, Inc. "Anchor-Tite"
 - 2. Or a comparable product by one of the following:
 - a. ATAS International, Inc.
 - b. Cheney Flashing Company.
 - c. Merchant & Evans, Inc.
 - d. MM Systems Corporation.
 - e. Perimeter Systems, a division of Southern Aluminum Finishing Co.
 - f. W. P. Hickman, Company
 - g. Petersen Aluminum Corp.
 - 3. Coping Caps: Snap-on fabricated from the following exposed metal: Aluminum: 0.050 inch minimum.
 - 4. Coping Cap Color: Match Architect's samples:
 - 5. Corners: Continuously welded or mechanically cinched and sealed watertight.
 - 6. Snap-on Coping Anchor Plates: Concealed, galvanized steel sheet, 12 inches (300 mm) wide, 0.028 inch (0.7 mm) thick, with integral cleats.
 - 7. Face Leg Cleats: Concealed, continuous galvanized steel sheet.

2.6 MANUFACTURED ROOF EDGE FLASHINGS

- A. Gravel Stops and Edge Fascia: Manufactured, one-piece, formed-metal gravel stop in section lengths not exceeding 12 feet with a horizontal flange and vertical leg fascia terminating in a drip edge, continuous hold-down cleat, and concealed splice plates of same material, finish, and shape as gravel stop. Provide mitered and welded or soldered corner units.
1. Basis-of-Design Product: Provide same manufacturer as coping.
 2. Fabricate from the following exposed metal: Formed Aluminum: 0.050 inch.
 3. Color: Match Architect's sample.
 4. Corners: Continuously welded or mechanically cinched and sealed watertight.
 5. Snap-on Coping Anchor Plates: Concealed, galvanized steel sheet, 12 inches (300 mm) wide, 0.028 inch (0.7 mm) thick, with integral cleats.
 6. Face Leg Cleats: Concealed, galvanized steel sheet.

2.7 FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of work.
1. Examine walls, roof edges, and parapets for suitable conditions for manufactured roof specialties.
 2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
 3. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install manufactured roof specialties according to manufacturer's written instructions. Anchor manufactured roof specialties securely in place and capable of resisting forces specified in performance requirements. Use fasteners, separators, sealants, and other miscellaneous items as required to complete manufactured roof specialty systems.
 - 1. Install manufactured roof specialties with provisions for thermal and structural movement.
 - 2. Torch cutting of manufactured roof specialties is not permitted.
- B. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.
 - 1. Coat concealed side of aluminum manufactured roof specialties with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.
 - 2. Underlayment: Where installing exposed-to-view components of manufactured roof specialties directly on cementitious or wood substrates, install a course of felt underlayment and cover with a slip sheet, or install a course of polyethylene underlayment.
 - 3. Bed flanges in thick coat of asphalt roofing cement where required by manufacturers of roof specialties for waterproof performance.
- C. Install manufactured roof specialties level, plumb, true to line and elevation, and without warping, jogs in alignment, excessive oil-canning, buckling, or tool marks.
- D. Install manufactured roof specialties to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before manufacture.
- E. Expansion Provisions: Provide for thermal expansion of exposed manufactured roof specialties. Space movement joints at a maximum of 12 feet (3.6 m) with no unplanned joints within 18 inches of corners or intersections.
- F. Fasteners: Use fasteners of type and size recommended by manufacturer but of sizes that will penetrate substrate not less than 1-1/4 inches (32 mm) for nails and not less than 3/4 inch (19 mm) for wood screws.
- G. Seal joints with elastomeric sealant as required by manufacturer of roofing specialties.

3.3 COPING INSTALLATION

- A. Install cleats, anchor plates, and other anchoring and attachment accessories and devices with concealed fasteners.
- B. Anchor copings to resist uplift and outward forces according to performance requirements.
 - 1. Interlock face and back leg drip edges of snap-on coping cap into cleated anchor plates anchored to substrate at manufacturer's recommended spacing.

3.4 ROOF EDGE FLASHING INSTALLATION

- A. Install cleats, cant dams, and other anchoring and attachment accessories and devices with concealed fasteners.
- B. Anchor roof edgings to resist uplift and outward forces according to performance requirements.

3.5 ROOF EDGE DRAINAGE SYSTEM INSTALLATION

- A. General: Install parapet scuppers to produce a complete roof drainage system according to manufacturer's written instructions. Coordinate installation of roof perimeter flashing with installation of roof drainage system.
- B. Parapet Scuppers: Install scuppers where indicated through parapet. Continuously support scupper, set to correct elevation, and seal flanges to interior wall face, over cants or tapered edge strips, and under roofing membrane.
 - 1. Anchor scupper closure trim flange to exterior wall and seal or solder to scupper.

3.6 EXPOSED FLASHING INSTALLATION

- A. Counterflashings: Coordinate installation of exposed flashing, and brick caps with installation of adjacent finish materials. Insert minimum 4 inches behind metal panels and bed with sealant.

3.7 CLEANING AND PROTECTION

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean and neutralize flux materials. Clean off excess solder and sealants.
- C. Remove temporary protective coverings and strippable films as manufactured roof specialties are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain in a clean condition during construction.
- D. Replace manufactured roof specialties that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

END OF SECTION 076200

SECTION 080671 – DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
1. Swinging doors.
 2. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
1. Mechanical door hardware.
 2. Electromechanical and access control door hardware.
 3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
 4. Cylinders specified for doors in other sections.
- C. Related Sections:
1. Section 08 11 13 - Hollow Metal Doors and Frames.
 2. Section 08 14 16 - Flush Wood Doors.
 3. Section 08 41 13 - Aluminum Framed Entrances and Storefronts.
 4. Section 08 41 23 – Fire Rated Aluminum Framed Entrances and Storefronts.
 5. Section 08 41 26 - All-Glass Entrances.
 6. Section 08 71 00 - Door Hardware.
 7. Section 08 74 00 – Access Control Hardware.
 8. Section 28 13 00 – Access Control.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 2. ICC/IBC - International Building Code.
 3. NFPA 70 - National Electrical Code.
 4. NFPA 80 - Fire Doors and Windows.
 5. NFPA 101 - Life Safety Code.
 6. NFPA 105 - Installation of Smoke Door Assemblies.
 7. [State Building Codes, Local Amendments].
- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.2 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.3 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum [5] years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Installer Qualifications: Installers, trained by the primary product manufacturers, with a minimum [3] years documented experience installing both standard and electrified builders hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum [5] years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor in good standing by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- D. Source Limitations: Obtain each type and variety of Door Hardware specified in the Related Sections from a single source, qualified supplier unless otherwise indicated.
- E. Regulatory Requirements: Comply with NFPA 70, NFPA 80, NFPA 101 and ANSI A117.1 requirements and guidelines as directed in the applicable model building code.
- F. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.6 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.7 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets at the end of Part 3 of each referenced section that products are to be supplied under.
 - 1. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
 - a. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

- B. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.3 FINISHES

- A. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 or traditional U.S. finishes shown by certain manufacturers for their products.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
- B. The supplier is responsible for handing and sizing all products as listed in the door hardware sets. Quantities listed are for each pair of doors, or for each single door.
- C. Products listed in the Door Hardware Sets are to be provided under and meet the requirements described in the specification sections noted.

1. Section 08 71 00 – Door Hardware.
2. Section 08 74 00 – Access Control Hardware.

- D. Manufacturer's Abbreviations:

1. MK - McKinney
2. RO - Rockwood
3. RU - Corbin Russwin
4. NO - Norton
5. RF - Rixson

- 6. PE - Pemko
- 7. 00 - Other

Hardware Schedule

Set: 1.0

5 Hinge	TA2714 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge	TA2714-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Flush Bolt (automatic)	2842 (or) 2942	US26D	RO	
1 Dust Proof Strike	570	US26D	RO	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Coordinator	1700	BLK	RO	087100
2 Door Closer	PR7500	689	NO	087100
2 Kick Plate	K1050 8" 4BE	US32D	RO	
2 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S88BL		PE	087100
1 Astragal	S771C		PE	
1 Astragal	357SP		PE	
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

Set: 2.0

2 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge	TA2714-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	R7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
3 Silencer	608 (or) 609	GRY	RO	
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

Set: 3.0

2 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge	TA2714-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	R7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S88BL		PE	087100
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

Set: 4.0

2 Hinge	TA2714 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge	TA2714-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	PR7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S88BL		PE	087100
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

Set: 5.0

2 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK	087100
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1 Electric Hinge (heavy weight)	T4A3786-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	R7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S773BL		PE	087100
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

Set: 6.0

2 Hinge (heavy weight)	T4A3786 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge (heavy weight)	T4A3786-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	PR7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S773BL		PE	087100
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

Set: 7.0

2 Hinge (heavy weight)	T4A3786 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge (heavy weight)	T4A3786-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	CLP7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Gasketing	S773BL		PE	087100
1 Frame Harness	QC-C1500		MK	087100

3 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK	087100
1 Push Plate	70E (6 x 16)	630	RO	087100
1 Door Pull	BF Y110	US32D	RO	087100
1 Door Closer	R7500	689	NO	087100
1 Mop Plate	K1050 4" 4BE	US32D	RO	
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
3 Silencer	608 (or) 609	GRY	RO	

Set: 11.0

3 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK	087100
1 Mortise Lock (passage)	ML2010 NSA	626	RU	087100
1 Door Closer	R7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S773BL		PE	087100

Set: 12.0

1 All Hardware	BY DOOR SUPPLIER			00
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Notes: All hardware by door supplier.

Set: 13.0

2 Cylinder (mortise)	1000 - LENGTH/CAM TO SUIT	626	RU	
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Notes: Balance of hardware by door/frame supplier.

Set: 14.0

2 Hinge (heavy weight)	T4A3786 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge (heavy weight)	T4A3786-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Exit Device (fail-safe)	ED5400AN N9S603 M812 24AD	626	RU	087400
1 Cylinder (rim)	3000	626	RU	
1 Door Closer	PR7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	

1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S88BL		PE	087100
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains unlocked.

Set: 15.0

2 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Electric Hinge	TA2714-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	R7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Threshold	270A MSES25SS		PE	087100
1 Gasketing	S773BL		PE	087100
1 Acoustic Corner Pad	ACP112BL		PE	087100
1 Door Bottom (automatic)	4301CRL		PE	087100
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

Set: 16.0

1 All Hardware	BY DOOR SUPPLIER			00
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Notes: All of hardware by door/frame supplier.

Set: 17.0

3 Hinge (heavy weight)	T4A3386 x NRP 4-1/2" x 4-1/2"	US32D	MK	087100
1 Exit Device (rim, exit only)	ED5200	626	RU	087100
1 Door Closer	CPS7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	

1 Threshold	270A MSES25SS	PE	087100
1 Rain Guard	346C	PE	087100
1 Gasketing	S773BL	PE	087100
1 Sweep	3452CNB	PE	087100

Set: 18.0

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Mortise Lock (storeroom)	ML2057 NSA	626	RU	087100
1 Door Closer	R7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S88BL	PE	087100	

Set: 19.0

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Mortise Lock (classroom)	ML2055 NSA	626	RU	087100
1 Door Closer	R7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S88BL	PE	087100	

Set: 20.0

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Mortise Lock (classroom)	ML2055 NSA	626	RU	087100
1 Door Stop	403 (or) 441CU	US26D	RO	087100
3 Silencer	608 (or) 609	GRY	RO	

Set: 21.0

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Mortise Lock (storeroom)	ML2057 NSA	626	RU	087100
1 Door Stop	403 (or) 441CU	US26D	RO	087100
3 Silencer	608 (or) 609	GRY	RO	

Set: 22.0

2 Hinge (heavy weight)	T4A3786 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
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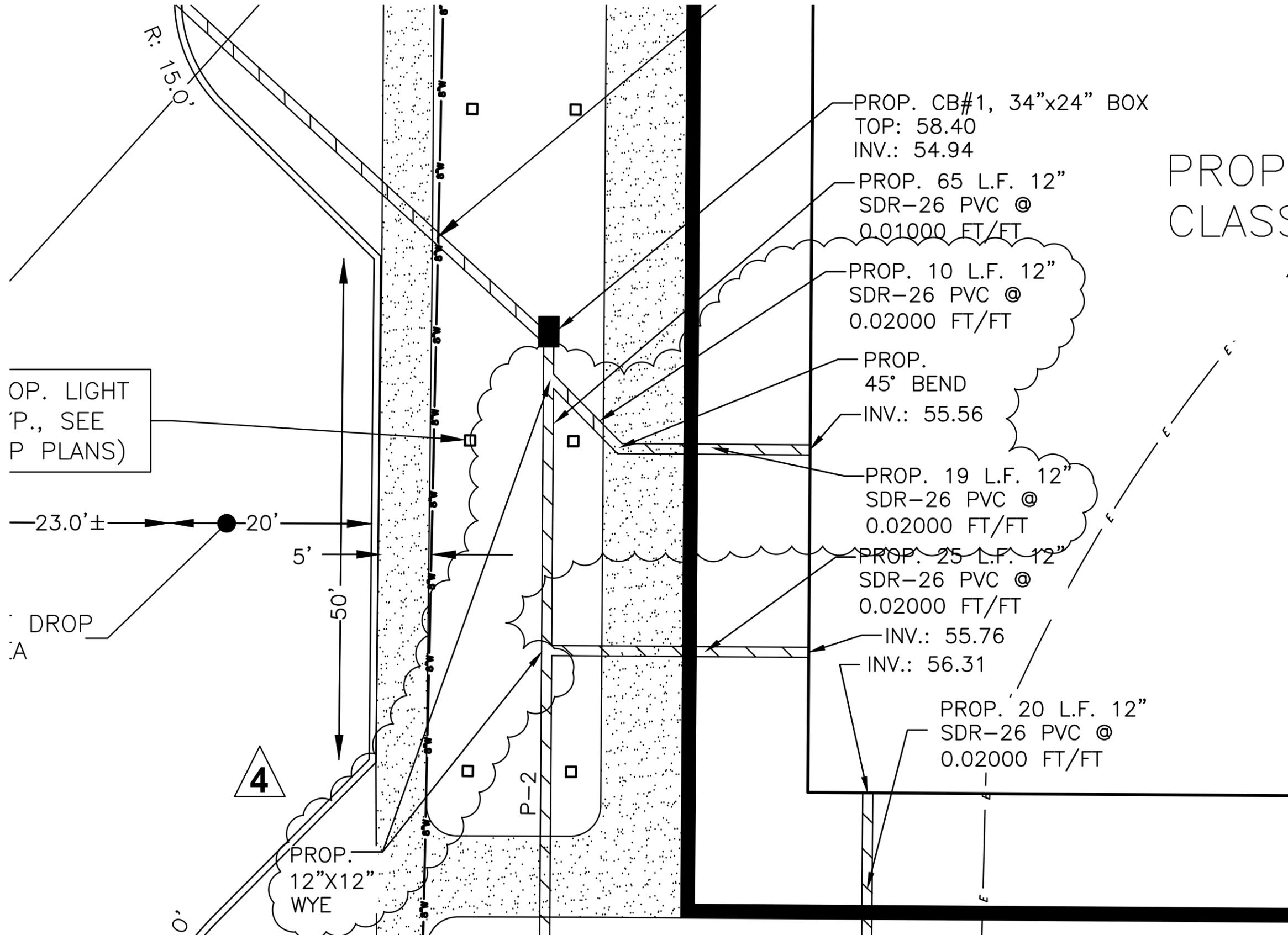
1 Electric Hinge (heavy weight)	T4A3786-QC12 4-1/2" x 4-1/2"	US26D	MK	087100
1 Card Reader Lock (fail-secure)	ML20605 x TCRNE1 NSA SS078 M812 24AD	626	RU	
1 Door Closer	PR7500	689	NO	087100
1 Kick Plate	K1050 8" 4BE	US32D	RO	
1 Door Stop	403 (or) 441CU	US26D	RO	087100
1 Gasketing	S773BL		PE	087100
1 Frame Harness	QC-C1500		MK	087100
1 Door Harness	QC-CXXX		MK	087100

Notes: Coordinate hardware requirements with existing conditions.

Lock power by security.

Electronic Operation: Valid card unlocks outside lever or key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked.

END OF SECTION 080671



PROPOSED 2-ST
CLASSROOM BUIL
42,228 S.F.
FF=70.09

OP. LIGHT
'P., SEE
P PLANS)

23.0'±
20'
5'
50'
DROP
A

PROP. CB#1, 34"x24" BOX
TOP: 58.40
INV.: 54.94

PROP. 65 L.F. 12"
SDR-26 PVC @
0.01000 FT/FT

PROP. 10 L.F. 12"
SDR-26 PVC @
0.02000 FT/FT

PROP.
45° BEND
INV.: 55.56

PROP. 19 L.F. 12"
SDR-26 PVC @
0.02000 FT/FT

PROP. 25 L.F. 12"
SDR-26 PVC @
0.02000 FT/FT
INV.: 55.76
INV.: 56.31

PROP. 20 L.F. 12"
SDR-26 PVC @
0.02000 FT/FT

PROP.
12"x12"
WYE

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Date Issued:	1/29/2013
Scale:	1" = 10'
Project No.:	11.103

Reference: CC-04, CC-05

ADDENDUM #4
ROOF LEADER SYSTEM
Sheet: CSK001

DOOR SCHEDULE - BASE BID

Level	Mark	Room Name	DOOR						FRAME			Threshold	Jamb Detail	Head Detail	Fire Rating	Hardware Set	Remarks
			Type	Width	Height	Thickness	Material	Finish	Type	Material	Finish						
FIRST FLOOR	C147	DRY STORAGE	D3	6' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F2	HM	PTD		J1	H1		1	
FIRST FLOOR	C148.1	LAB	D2	4' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		9	
FIRST FLOOR	C148.2	LAB	D2	4' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		11	
FIRST FLOOR	C149	CONTROL	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		4	
FIRST FLOOR	C150	LAB	D2	4' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		5	
SECOND FLOOR	C210.1	FACULTY CUBICLES	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		6	
SECOND FLOOR	C210.2	FACULTY CUBICLES	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		8	
SECOND FLOOR	C211.1	FUTURE EXPANSION	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		3	
SECOND FLOOR	C211.2	FUTURE EXPANSION	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		3	
SECOND FLOOR	C213	CLASSROOM	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		6	
SECOND FLOOR	C214	CLASSROOM	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		6	
SECOND FLOOR	C214	CLASSROOM														22	EXISTING DOOR, NEW LOCKSET, KICKPLATE
SECOND FLOOR	C215	CLASSROOM														22	EXISTING DOOR, NEW LOCKSET, KICKPLATE
SECOND FLOOR	C216	OFFICE	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		3	

DELETED

DOOR SCHEDULE - ALT.#2

Level	Mark	Room Name	DOOR						FRAME			Threshold	Jamb Detail	Head Detail	Fire Rating	Hardware Set	Remarks
			Type	Width	Height	Thickness	Material	Finish	Type	Material	Finish						
SECOND FLOOR	C223	CLASS ROOM	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		5	
SECOND FLOOR	C224	CLASSROOM	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		6	
SECOND FLOOR	C225	SEMINAR	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		3	
SECOND FLOOR	C226	CLASSROOM	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		6	
SECOND FLOOR	C227	CLASSROOM	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		6	
SECOND FLOOR	C228	CORR.	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		3	
SECOND FLOOR	C229	SEMINAR	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J2	H2		6	

Grand total: 7

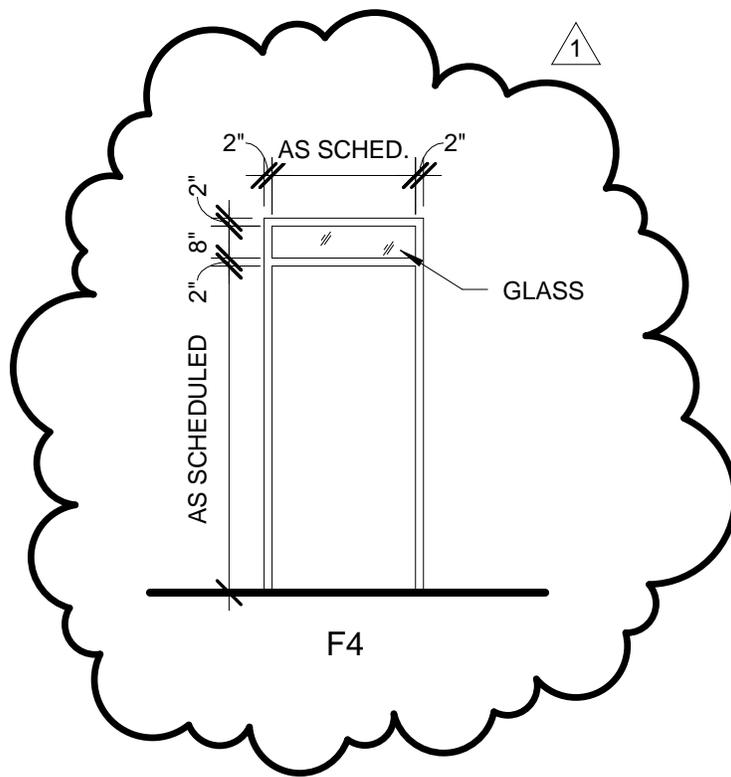
DOOR SCHEDULE - ALT.#4

Level	Mark	Room Name	DOOR						FRAME			Threshold	Jamb Detail	Head Detail	Fire Rating	Hardware Set	Remarks
			Type	Width	Height	Thickness	Material	Finish	Type	Material	Finish						
FIRST FLOOR	C102A	OFFICE	D2	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J1	H1		19	
FIRST FLOOR	C103	CORR	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J1	H1		21	
FIRST FLOOR	C103A	CORR	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J1	H1		18	
FIRST FLOOR	C104	WOMEN'S RM.	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J1	H1		10	
FIRST FLOOR	C105	CORR	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J1	H1		10	
SECOND FLOOR	C205	OFFICE	D3	6' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F2	HM	PTD		J1	H1		8	
SECOND FLOOR	C290	WOMEN'S RM.	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J1	H1		10	
SECOND FLOOR	C291	MEN'S RM.	D1	3' - 0"	7' - 0"	0' - 1 3/4"	WD	SN	F1	HM	PTD		J1	H1		10	

Grand total: 8

GENERAL NOTES:

1. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR VENTS, FLUES, LIGHTNING PROTECTION AND OTHER ROOF PENETRATIONS AND ROOF MOUNTED ITEMS.
2. 2. MINIMUM ROOF SLOPE TO BE 1/4" PER FOOT.
3. 3. PROVIDE MIN. R-20 INSULATION, U.O.N.
4. 4. PROVIDE WALKWAY PADS BETWEEN ALL ROOF ACCESS POINTS AND TO ALL ROOF MOUNTED UNITS AND EQUIPMENT.
5. 5. NEW ROOFTOP UNITS ARE TO BE PAINTED (TYPICAL) - COLOR TO BE SELECTED BY ARCHITECT FROM FULL RANGE OF COLORS - SEE SPECIFICATIONS.
6. 6. ROOFING CONTRACTOR IS TO PROTECT ALL OTHER WORK FROM WEATHER DAMAGE WHILE PREPARING FOR AND PERFORMING ALL ROOFING WORK. COORDINATE WITH OTHER TRADES FOR PROTECTION AT INSTALLATION OF ITEMS BY OTHER TRADES.
7. 7. TYPICAL INSULATION THICKNESS TO BE 4" MIN., CONSISTING OF (2) 2" LAYERS OF CONTINUOUS RIGID INSULATION WITH STAGGERED JOINTS U.N.O.
8. 8. CONTRACTOR TO COORDINATE ALL LOCATIONS OF ROOF DRAINS WITH STRUCTURAL AND PLUMBING DRAWINGS AND OFFSET DRAINS ACCORDINGLY.
9. 9. STAGGER JOINTS OF ALL ROOF COMPONENTS INCLUDING BLOCKING.
10. 10. REFER TO SHEET A180 FOR TYPICAL ROOF DETAILS.
11. 11. CONTRACTOR TO COORDINATE SIZE, QUANTITY, AND LOCATION OF ALL PLUMBING, MECHANICAL, AND ELECTRICAL ROOF TOP EQUIPMENT WITH STRUCTURAL MEMBERS.
12. 12. PROVIDE TAPERED INSULATION CRICKETS ON HIGH SIDE OF ALL ROOF TOP EQUIPMENT CURBS.



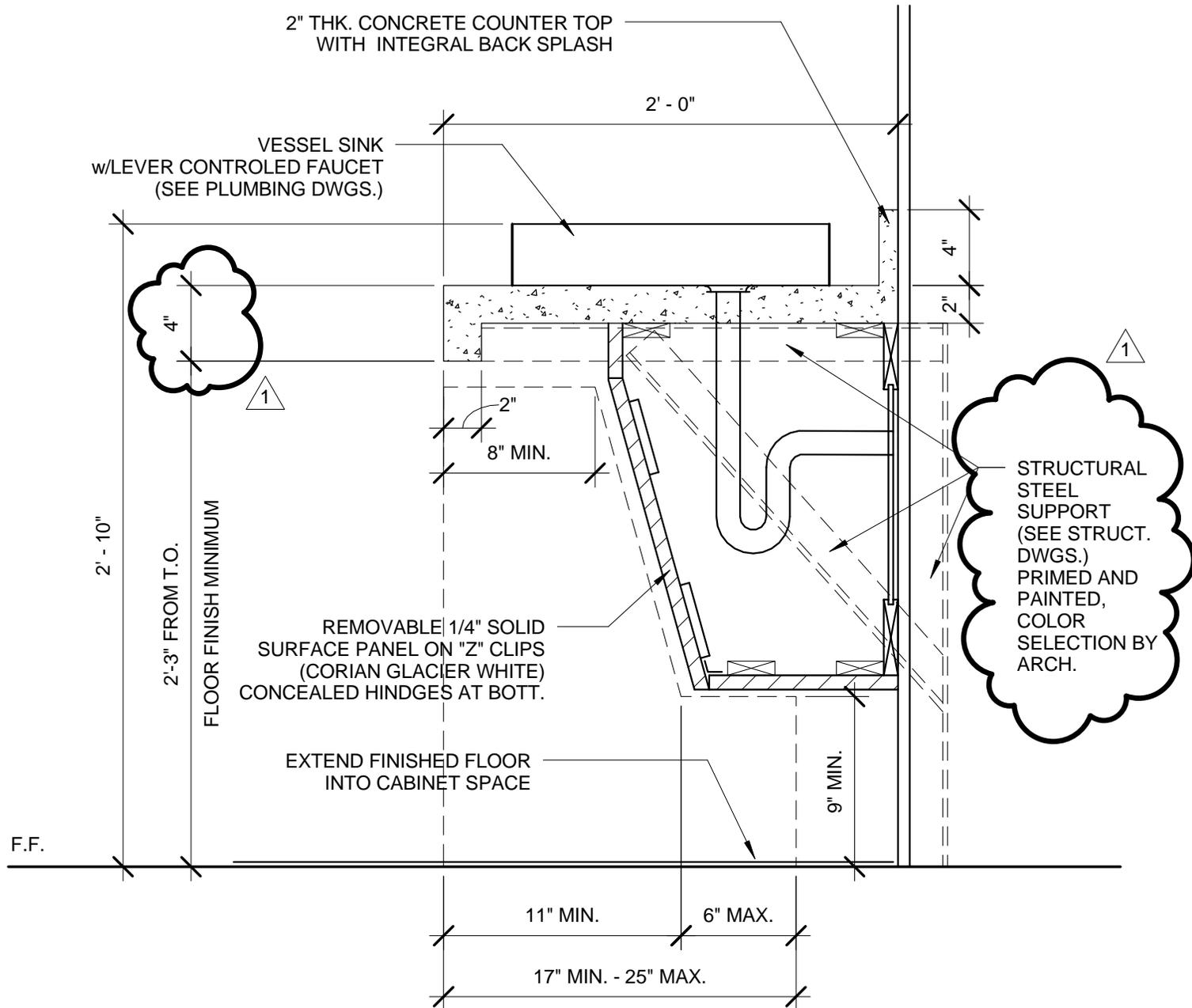
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ADDENDUM #4 FRAME TYPE	
Reference:	A401
Sheet:	ASK-018



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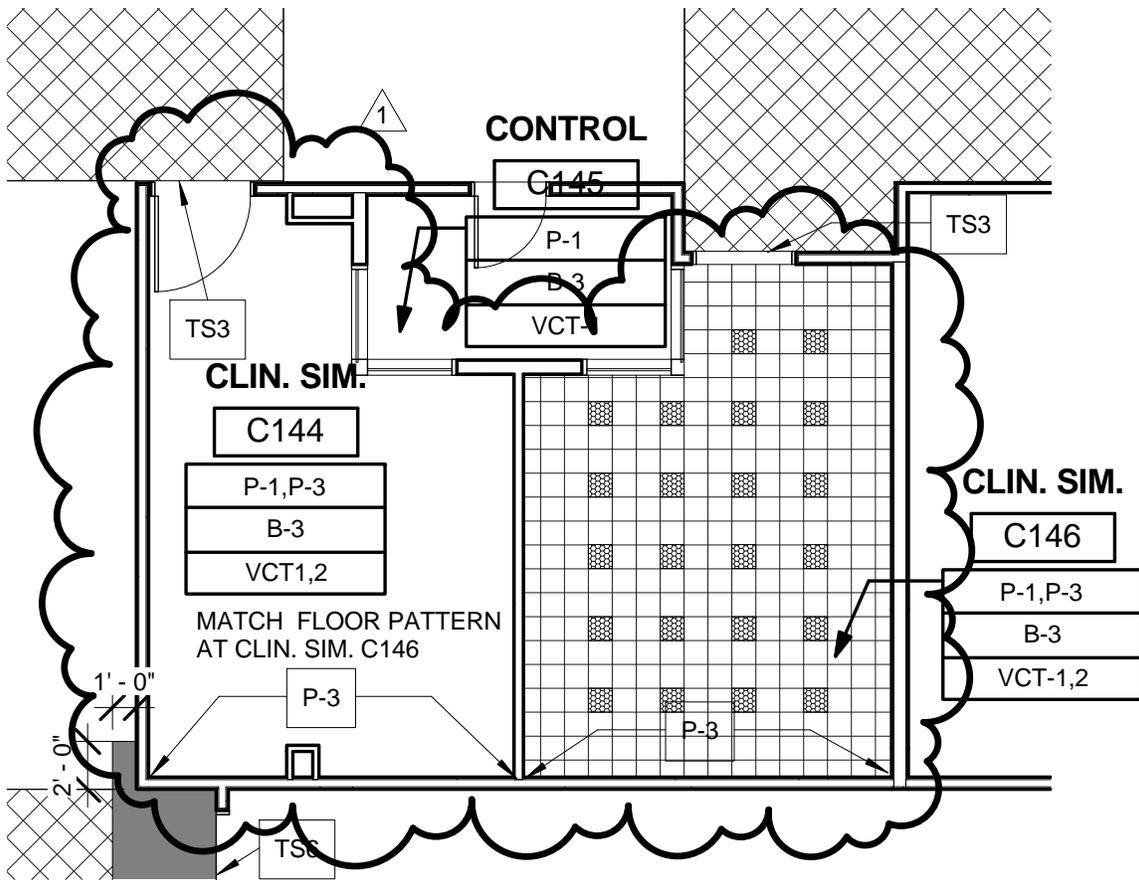
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ADDENDUM #4
REVISED DETAIL

Reference: 5/A441 Sheet: **ASK-019**



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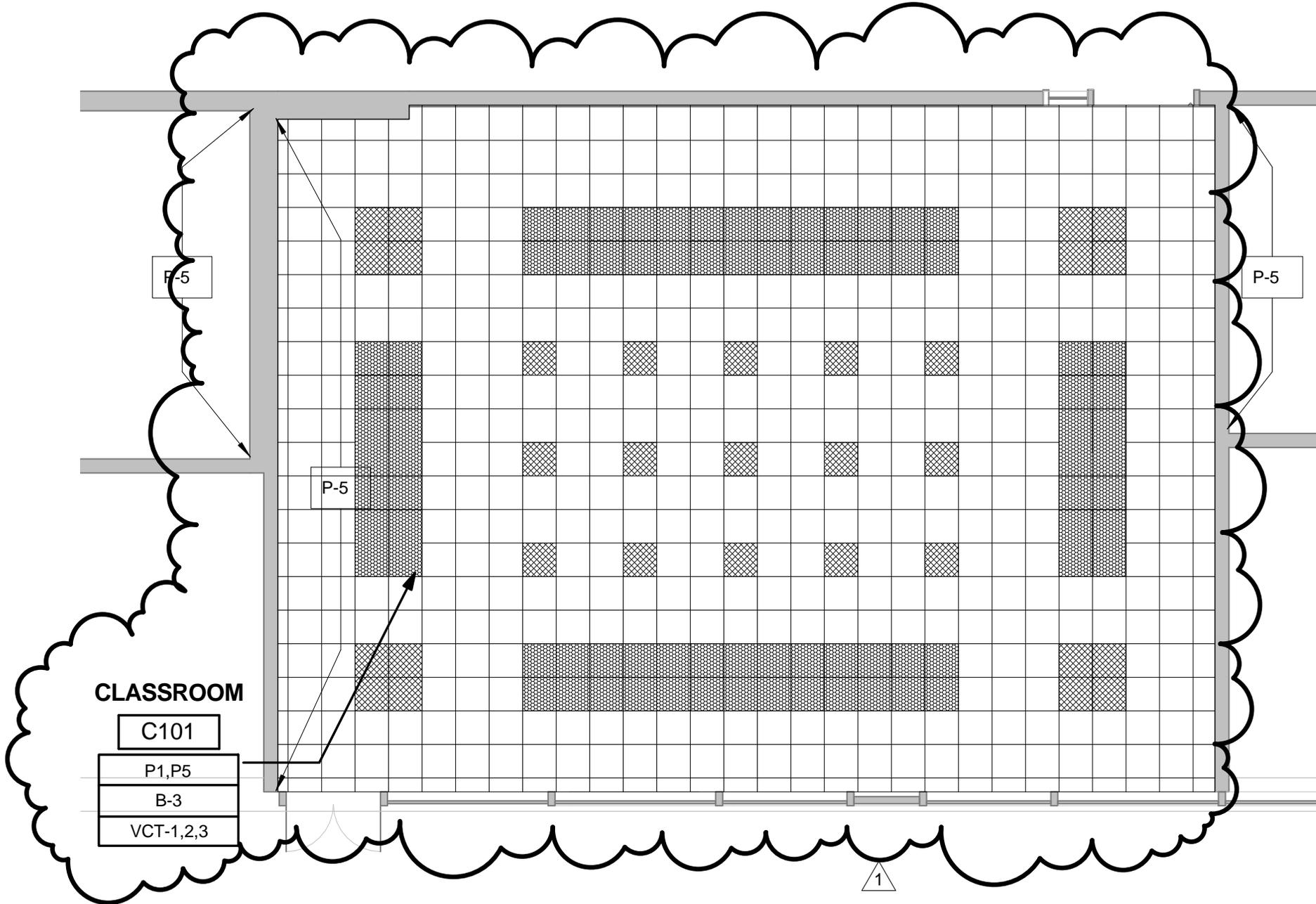
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**ADDENDUM #4 BASE
BID ROOMS C144
AND C146 VCT
PATTERN**

Reference:	A132	Sheet:	ASK-020
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CLASSROOM

C101

P1, P5

B-3

VCT-1,2,3

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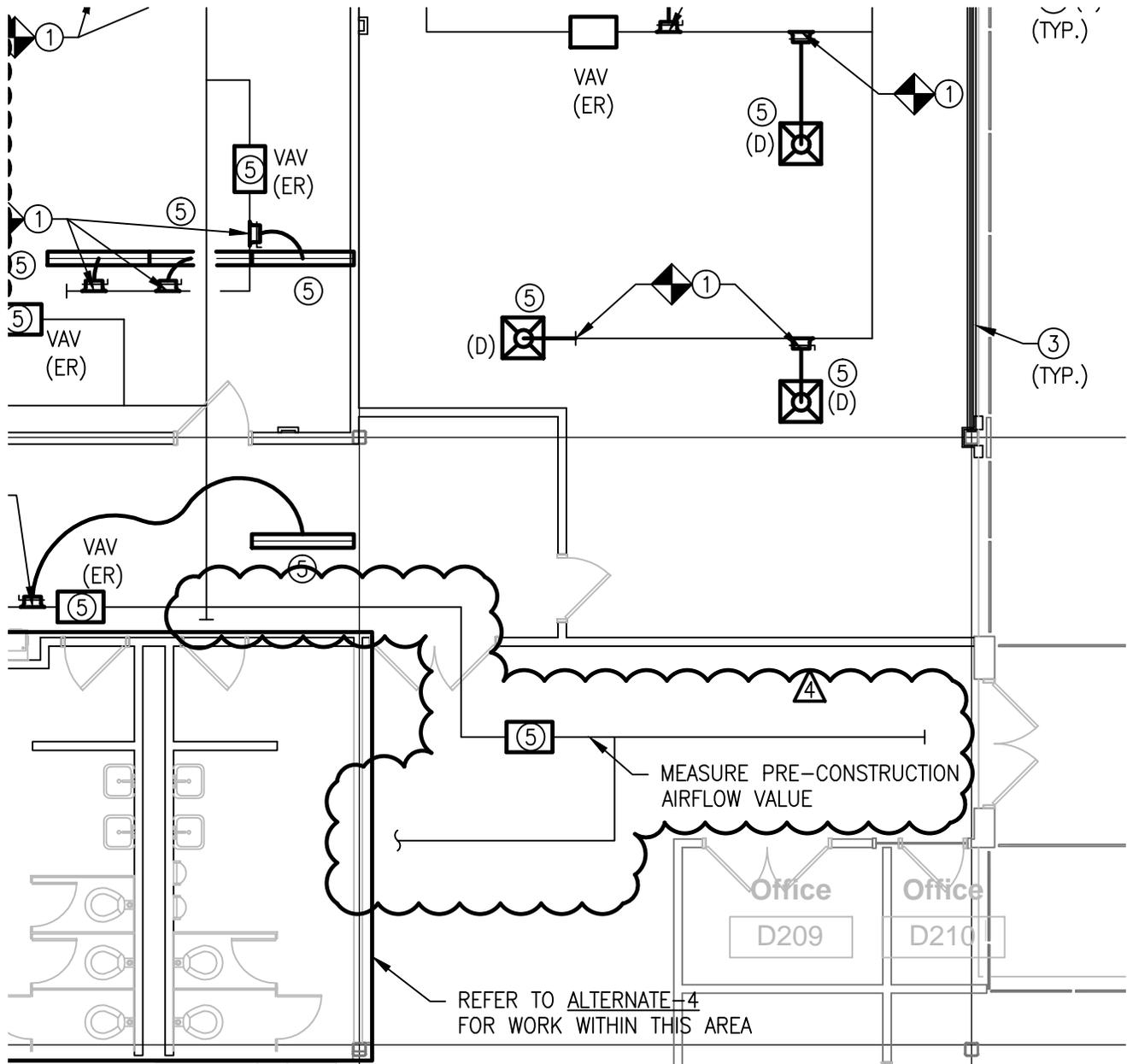
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Date Issued:	01/29/2013
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**ADDENDUM #4 ALT #4 ROOM
C101 VCT PATTERN**

Reference:	A135-A4	Sheet:	ASK-021
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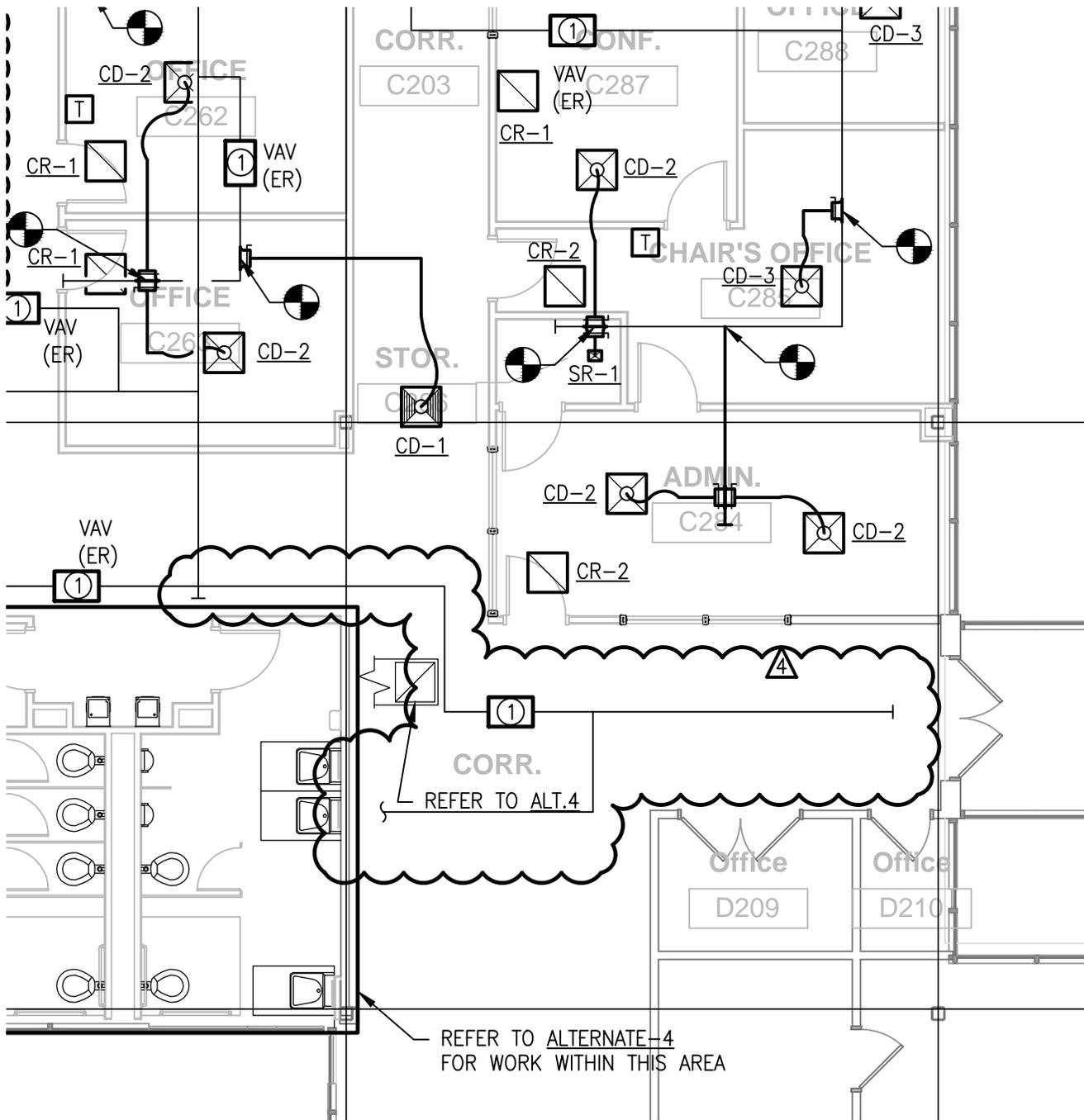
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Date Issued:	01/25/2013
Scale:	1/8" = 1'-0"
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ADDENDUM #4 2ND FLOOR PLAN MECH. - ALT. 6

Reference: M102-A6 Sheet: MSK-010



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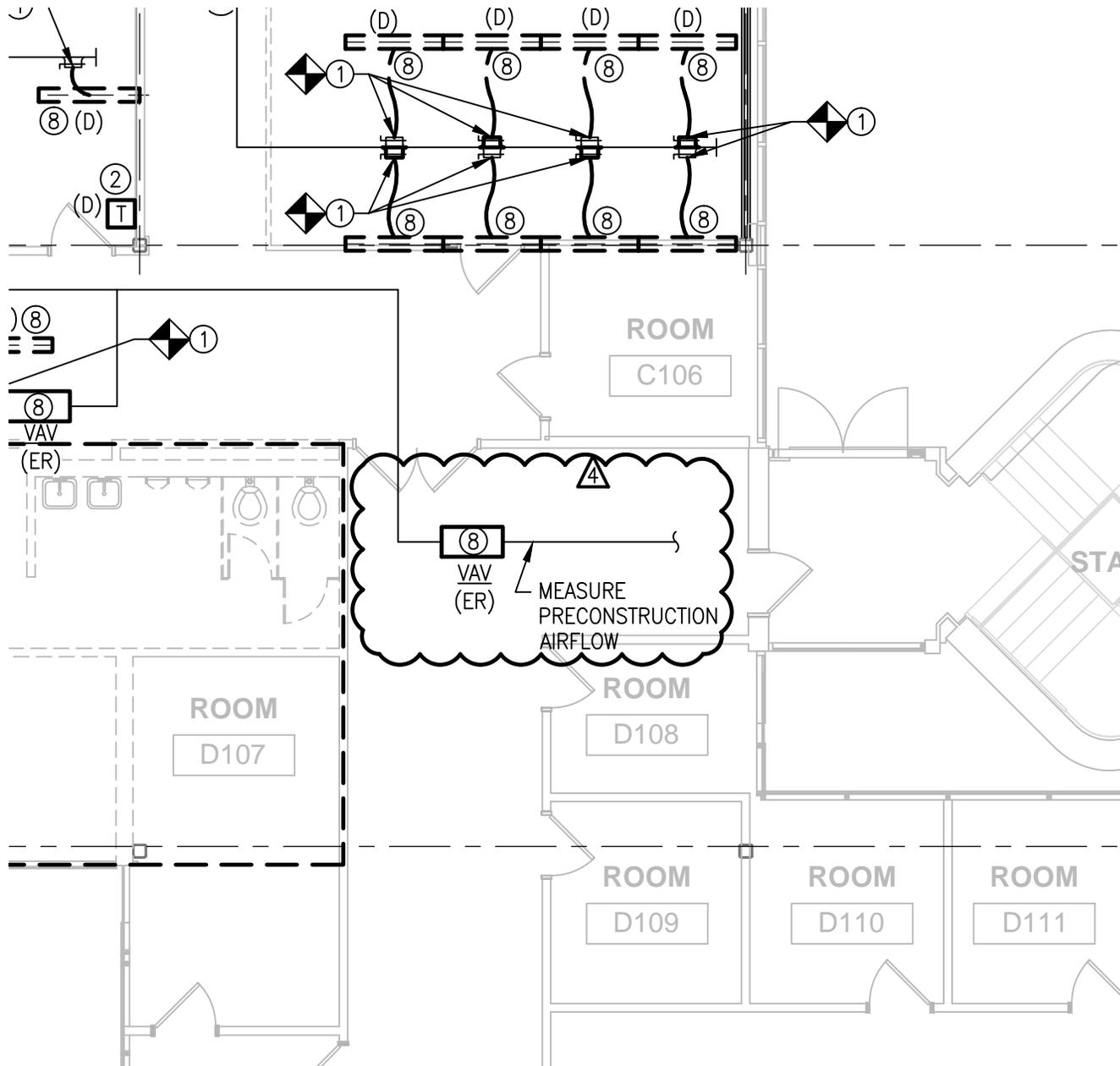
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**ADDENDUM #4
2ND FLOOR PLAN
MECH. - ALT. 6**

Reference:	M114	Sheet:	MSK-011
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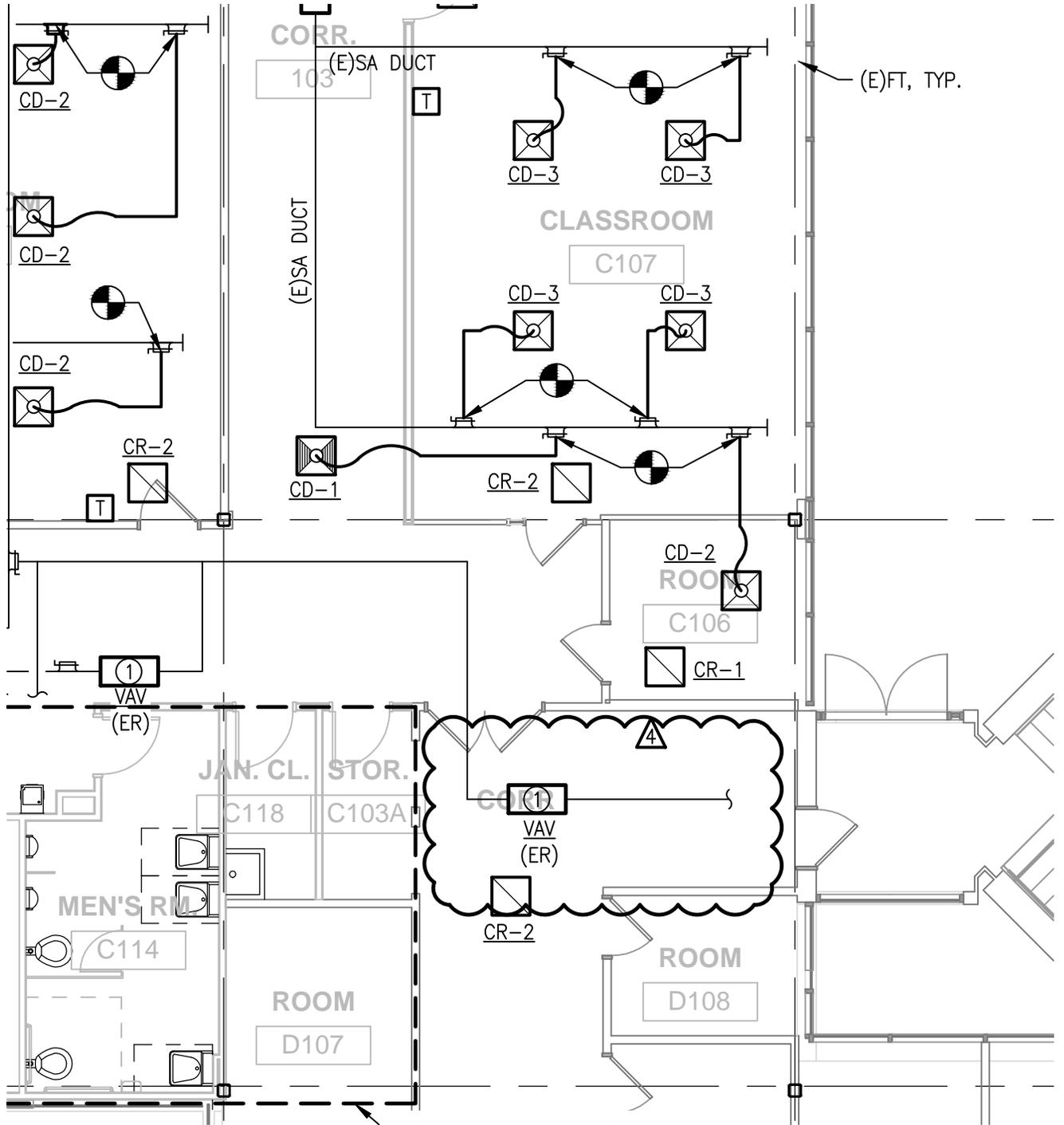
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Project No.:	11.103

ADDENDUM #4
2ND FLOOR PLAN
MECH. - ALT. 6

Reference:	M101-A7	Sheet:	MSK-012
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ADDENDUM #4
1ST FLOOR PLAN
MECH. - ALT. 7

Reference: M112-A7 Sheet: MSK-013