



Richard Y. Johnson & Son, Inc.

General Contractors & Construction Managers

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**Delmarva Christian School
21777 Sussex Pines Road, Georgetown, Delaware
Bid Pac A– Contracts 1 thru 18
May 2, 2025**

Addendum No. 3

Attention all Prospective Bidders:

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

Addendum No. 3 consists of:
RYJ Written directive (7 pages)
Duct Liner Board Product Data (2 pages)

Non – Technical Specifications

General

1. Last day for RFI's is Wednesday, May 7th 2025, at 12:00 pm.
2. Bids may be mailed to the address above, attention Justin Savini, (US mail, FEDEX, etc) in lieu of hand delivery. All mailed bids must be received by 3:00 PM on May 14th. Bidders are responsible for bids received after the due date/time.

Section 011100 Summary of Work

Contract 1 Site Work

Page 011100-9; Add Paragraph PPP "PPP. This contract is required to have the owner parking area stoned and base paved along with the fire lane prior August 15, 2025; reference Drawing G104 in Addendum 2 for clarification."

Bidders Questions + Clarification

RFI No.	Description
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RFI 01	<p>Question 1: Contract 1-Sitework, Scope of Work item Y, states to provide exterior caulking of expansion joints at all concrete locations including sidewalks and curbs. Note 2, states, concrete sidewalks shall be constructed per DelDOT specifications. DelDOT does not require caulking of expansion joints, please advise.</p> <p>Answer 1: Provide per DelDOT specifications.</p> <p>Question 2: Scope of Work Items DD., JJ., and LL. Appear to contradict each other. Will RYJ be providing CCR reports and all testing and inspections for site work?</p> <p>Answer 2: Delete Item JJ. In site work Scope of Work. Provide all required testing and CCR reports.</p> <p>Question 3: Scope of work Item NN. Our fencing subcontractor is asking for more information and details on the dumpster enclosure fencing/gates.</p> <p>Answer 3: See Keynote S27 and Details 10 & 13/CS6001.</p>
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RFI 02	<p>Question 1: Which Contract is responsible for the exterior 5/8" wood sheathing on walls?</p> <p>Answer 1: Contract 9- Drywall/Metal Stud</p> <p>Question 2: Which contractor is responsible for wall tile?</p> <p>Answer 2: Contract 11- Floor Covering Work</p> <p>Question 3: On Drawing A605 it mentions Doors 165C Q-4 location circulation. Where and what floor plan are they shown?</p> <p>Answer 3: See detail 5/A605. They are in wall between existing building and new construction.</p> <p>Question 4: Does Trade need to provide dumpsters or is there job site dumpsters provided?</p> <p>Answer 4: Job site dumpsters will be provided.</p> <p>Question 5: Contract 5- Carpentry list items G, H, and I as to provide wood blocking as required to install items. But details on A501 call out metal blocking to be used, please clarify.</p> <p>Answer 5: (Revised – Addendum 3) Provide blocking as noted on Sheet A501, this blocking is to be provided by Contract A-9 Drywall/Metal Stud</p>
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Question 6:

Contract 5 Carpentry Item T-provide wood blocking for roof top mechanical. M501 shows no wood detail to roof. Please clarify detail drawing such.

Answer 6:

Provide blocking where indicated on details.

Question 7:

Can you clarify which contract is to carry the stainless steel corner protection for the Cornell Roll Down doors?

Answer 7:

Contract 5, Item QQ

RFI 03

Question 1:

For Contract 14-Food Service Equipment we do not see plans or specs?

Answer 1:

Please see drawing A403 for Prep Room equipment. There are no specifications.

RFI 04

Question 1:

Can the AWI certification requirements be waived.

Answer 1:

Yes, AWI Certification is not required.

RFI 05

Question 1:

Finish notes on finish legend indicate that all flooring materials are to be ordered from "Cornerstone Building Supply", is this correct?

Answer 1:

No, delete all references to "Cornerstone Building Supply" from documents. Materials may be purchased from any appropriate supplier/vendor.

RFI 06

Question 1:

Spec Section 42000 Masonry, calls for "US Brick-Chestnut Velour" as the face brick. The bid drawings specifically list three (3) different colors of Glen Gery Klaycoat brick in great detail on the elevations. Is the intent to use the Glen Gery brick per the drawings?

Answer 1:

The intent is to use the Glen Gery Brick per the drawings.

RFI 07

Question 1:

In Bid Pack A, Contract 5, Scope of Work Item RR says to install steel plate provided by steel contract on top of parapet walls to fasten wood blocking. Can you clarify which parapet wall is to receive this treatment, I see no detail anywhere referencing this plate.

Answer 1:

Delete Contract 5, Scope of Work Item RR.

RFI 08**Question 1:**

Please confirm whether fencing around the playgrounds is included in site work base bid, or if it is to be part of Alternate 7?

Answer 1:

Proposed Playground fencing is to be included in Alternate 7.

RFI 09**Question 1:**

No fire alarm devices are shown on plans. Will devices and locations be issued for bidding purposes?

Answer 1:

No additional information will be provided. All fire alarm design is to be by the installing contractor as a delegated design. Architect will coordinate placement off of the design submittal.

Question 2:

Please provide circuitry information and power requirements for DOAS-1 located on the rooftop (drawing E-300).

Answer 2:

See attached sheet for requested circuitry information on the DOAS unit. Power requirements are 27 MCA, 35 MOCP, 460V. All fire alarm design is to be by the installing contractor as a delegated design. Architect will coordinate placement off of the design submittal.

Question 3:

Contract 17 Scope of Work Item X mentions site lighting revisions. Please clarify if any site lights shown on E-009 will utilize existing poles. Will the existing parking lot remain throughout construction?

Answer 3:

All existing parking lot light poles/fixtures will be removed and replaced per civil drawings. Refer to electrical plans for wiring information. Existing lights will be needed while school is in operation, electrical contractor to coordinate schedule to remove with site contractor to remove/replace infrastructure.

Question 4:

The responsibility matrix on drawing TA-002 shows PTG furnishing architectural lighting? Please clarify who furnishes lighting and controls.

Answer 4:

PTG will NOT be furnishing any of the project lighting.

Question 5:

Is lightning protection required? If so is there an existing system.

Answer 5:

Lightning protection is not required.

Question 6:

The following light fixtures are not shown on the fixture schedules. Types R8 and S6 (both are shown on Drawing E-202 in Area 145). Please provide clarification.

Answer 6:

Type R8: Recessed linear in an "L" pattern and continuous row. "L" pattern #A-830-L, 5'-7.5" x 2'-6.5"- NF-U-FSD-1-0- to be determined by architect.

Continuous row #A-409-#A-830-4'-7"-NF-U-FSD-1-0- to be determined by architect.

Type S6: 2-ft surface linear strip BOH. #ZL1D-L24-SMR-3500LM-FST-MVOLT-35K-80CRI-WH-ZSPRG

RFI 10**Question 1:**

Who owns the duct board insulation per note #5 on A-110 & A-111

Answer 1:

Contract 10 Acoustical Work

Question 2:

Who owns the K-13 Spray Insulation at CF-9-A on Page A-110?

Answer 2:

Contract 10 Acoustical Work

Question 3:

RCP General Note #8 calls for 4" batt insulation. Is this to be encapsulated in a bag or just glass fiber batt?

Answer 3:

Unfaced glass fiber batt only.

Question 4:

RCP Key note #10 indicates 4" batt insulation above lay in ceilings, please verify location where this applies.

Answer 4:

Above ceiling clouds in RM 195 (Music), RM 196 (MS Commons).

Question 5:

Please provide ceiling tag for the 5 ceilings located with a drywall border in Circulation #172.

Answer 5:

These ceilings are material tag 6, 24" x 96" Optima.

Question 6:

RCP Key Note #5 indicates duct board insulation non deck, what contractor owns this. Also, please provide spec.

Answer 6:

Contract 10, Acoustical Work. 1" Duct Board Liner, Owens Corning QuietR or equal. See attached data sheets. Any equivalent material substitution will be acceptable.

RFI 11

Question 1:

Frames W16, W17, and W18 are called out as anodized aluminum storefront on A-603. The door schedule states the doors in these frames are hollow metal in hollow metal frames. Please confirm that W16/W17/W18 are not in aluminum storefront.

Answer 1:

W16/W17/W18 are all hollow metal frames with side lites and painted hollow metal doors to match all other admin doors.

RFI 12

Question 1:

Is there a detail for the proposed preschool playground and elementary playgrounds?

Answer 1:

Playground equipment is by owner. Provide fencing as part of Alternate 7. Contract 1 to provide grading and seeding as indicated on Civil drawings.

RFI 13

Question 1:

Is the existing parking lot to be milled and over lay? If so please provide details.

Answer 1:

Not at this time.

Question 2:

Contract 1, Are we responsible for any work associated with movable bleachers as shown on drawing RP1005? If so please provide details.

Answer 2:

No, they are future installation by others.

Question 3:

Are we (contract 1) responsible for any work associated with propane or natural gas?

Answer 3:

No

Question 4:

Contract 1, Will RYJ be providing all temporary fencing per item X and also the temporary orange safety fencing per Item BBB.

Answer 4:

CM will provide temporary fence per item X. Contract 1 to provide Item BBB if noted on plans.

RFI 14

Question 1:

Please provide details/specs for new softball and soccer field.

Answer 1:

Finished softball and soccer fields will be provided by owner's contractor under separate contract. Contract 1-Site Work is to provide site as indicated in the bid documents and coordinate with owner's field contractor.

RFI 15

Question 1:

On A-110 & A-111, Note 2-Is the 10" Axiom trim needed? There appears to be a drywall perimeter surrounding these areas with a Note 2 indicated at outer perimeter.

Answer 1:

No, the Axiom trim is no longer needed at the outer perimeter of the ceiling elements in the Circulation space.

Question 2:

On A-110, what type of tile goes in the clouds in the MS Commons 196? What is the edge treatment for these clouds?

Answer 2:

The ceiling tile is to be Armstrong Optima 24"x24" Tegular (white) and the edge treatment is to be Armstrong 6" axiom trim.

Question 3:

On A-110, ceiling type CB-1-A is listed in Rooms 183 &184, but does not exist on the ceiling type legend. Please clarify.

Answer 3:

The ceilings in rooms 183 &184 are to be Armstrong 24"x24" Kitchen Zone ceiling tile.

Question 4:

On A-110, please clarify if the ceiling tags are correct in Rooms 191 & 191.1.

Answer 4:

The ceiling tags are incorrect in rooms 191 & 191.1. The tag should be "CE-4" in both spaces.

Question 5:

On A-111, please clarify the ceiling tags in the top right of Waiting Area 101 as there are two different tags (CF-10-C and CC-10-D).

Answer 5:

Both tags should be CC-10-D.

Substitution Request/Approvals

1. Section 075423- Thermoplastic Polyolefin (TPO) Roofing
 - a. GAF TPO Roofing is approved.
2. Section 074113-Metal Roof
 - a. Metal Panel Systems MP-200 Panel, Standing Seam Series is approved.
3. Section 074213- Metal Composite Material Wall Panels
 - a. Metal Panels Systems FP-100 Panel, Flush Seam Series is approved as equivalent to Metal Sales TLC-1.

End of Addendum No. 3



QUIETR[®] DUCT LINER BOARD

QuietR[®] Duct Liner Board is a bonded board of glass fibers designed to be installed inside sheet metal ductwork or plenums with metal fasteners and adhesives. The smooth, fire-resistant airstream surface resists damage during installation and in service. It is ideal for use in large ducts and plenums where air velocities do not exceed 6,000 fpm (30.5 m/s).

Features

- Outstanding thermal and acoustical performance
- Absorbs noise within the duct that helps create quiet and comfortable environments
- Tough, abuse-resistant surface that reduces installation costs because these products resist damage
- Cleanable surface with a black mat facing that provides a smooth, durable surface, making it easy to clean the duct liners using methods and equipment described in North American Insulation Manufacturers Association (NAIMA) Publication AH122, Cleaning Fibrous Glass Insulated Duct Systems: Recommended Practice
- Does not support fungal growth with an EPA registered biocide that protects the airstream surface from microbial growth

Standards, Codes Compliance

- ASTM C1071; Type II Rigid Board
- NFPA 90A and 90B Compliant
- ICC Compliant
- California Title 24
- SMACNA Application Standard for Duct Liners
- NAIMA Fibrous Glass Duct Liner Installation Standard (AH 124)
- Conforms to ASHRAE 62
- Meets requirements of ASTM C1338 and ASTM G21 (fungi test)
- NFPA 259

Technical Information

Mold in duct systems occurs when moisture comes into contact with dirt or dust collected on the duct system surfaces. Proper filters will minimize the collection of dust and dirt, but care needs to be exercised to help prevent water formation in the duct. A properly sized, installed and operated air conditioning unit will minimize the likelihood of water formation. The system must be maintained and operated to ensure that sufficient dehumidification is occurring and that filters are installed and changed as recommended by the equipment manufacturer.

Physical Properties

PROPERTY	TEST	VALUE
Operating Temperature	ASTM C411	250°F (121°C)
Maximum Air Velocity	UL 181 and ASTM C1071 Erosion test	6,000 fpm (30.5 m/s)
Water Vapor Sorption	ASTM C1104	<3% by weight at 120°F (49°C), 95% R.H.
Fungi Resistance	ASTM C1338	Meets requirements
Fungi Resistance	ASTM G21	Meets requirements
Corrosiveness ¹	ASTM C665 Corrosiveness test	Will not cause corrosion greater than caused by sterile cotton on aluminum or steel
Thermal Conductivity (k) at 75°F (λ at 24°C mean)	ASTM C518	Btu·in/hr·ft ² ·°F W/m·°C 0.23 0.033
Surface Burning Characteristics ²	ASTM E84	
Flame Spread	UL 723, and CAN ULC-S102	<25
Smoke Developed		<50

- 1 When wet, coated surfaces of QuietR[®] Duct Liner Board in contact with galvanized steel may cause discoloration of the sheet metal.
- 2 The surface burning characteristics of these products have been determined in accordance with UL 723, ASTM E 84, and CAN/ULC-S102. These standards should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment, which takes into account all of the factors that are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

Acoustical Performance per ASTM C423; Type A Mounting

Tested Values — QuietR[®] Duct Liner Board

THICKNESS (IN)	125	250	500	1000	2000	4000	NRC
1.0 (25 mm)	0.04	0.26	0.63	0.91	0.99	0.99	0.70
2.0 (51 mm)	0.16	0.61	0.94	1.04	0.95	0.99	0.90

This data was collected using a limited sample size and are not absolute values. Therefore, reasonable tolerances must be applied. Tests were conducted in accordance with ASTM C423, Mounting A (material applied against a solid backing.)

Insertion Loss dB per ft. of Lined Duct

P/A, FT/FT ²	1" LINER 1/3 OCTAVE BAND CENTER FREQUENCIES, HZ						2" LINER 1/3 OCTAVE BAND CENTER FREQUENCIES, HZ					
	125	250	500	1000	2000	4000	125	250	500	1000	2000	4000
8	0.6	1.5	2.7	5.8	7.4	4.3	0.8	2.9	4.9	7.2	7.4	4.3
6	0.5	1.2	2.3	5.0	5.8	3.6	0.6	2.3	4.2	6.2	5.8	3.6
4	0.4	0.8	1.9	4.0	4.1	2.8	0.5	1.6	3.5	5.0	4.1	2.8
2	0.2	0.5	1.4	2.8	2.2	1.8	0.3	0.9	2.5	3.5	2.2	1.8
1	0.1	0.3	1.0	2.0	1.2	1.2	0.2	0.5	1.8	2.5	1.2	1.2

Data extracted from ASHRAE Handbook, HVAC Applications, Chapter 48 2015
P/A = Duct Perimeter, (ft)/Duct Cross Sectional Area (ft²). Example: 12" x 24" duct,
P/A = 3 ft/ft².

Availability

QuietR® Duct Liners are available in the following combinations of thicknesses and types: R-values, hr•ft²•°F/Btu (RSI, m²•°C/W) at 75°F (24°C) mean temperature.

PRODUCT TYPE AND THICKNESS	NOMINAL DENSITY PCF (KG/M³)	1.0 IN (25 MM)	2.0 IN (50 MM)
QuietR® Duct Liner Board	3.0 (48)	4.3 (0.76)	8.7 (1.53)

QuietR® Duct Liner Board is available in the following standard sizes: 1" x 48" x 96" (25 mm x 1,219 mm x 2,438 mm), 2" x 48" x 96" (51 mm x 1,219 mm x 2,438 mm). MTO available at Width: 48", Length: 24"-120".

Installation

For complete installation instructions and recommendations, see "QuietR® Duct Liner Board and HD-Roll Insulation Installation Instructions" (Pub. No. 10021549).

Certifications and Sustainable Features

- Certified by SCS Global Services to contain an average 53% with minimum 22% post-consumer and balance 31% pre-consumer recycled glass content
- GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.
- Health Product Declaration® for QuietR® Duct Liner Board



Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation, and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets, and enhancing lives. More information can be found at www.owenscorning.com.

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SCS Global Services provides independent verification of recycled content in building materials and verifies recycled content claims made by manufacturers. For more information, visit www.SCSglobalservices.com.

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Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

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