



Prince William County

PUBLIC SCHOOLS

Providing A World-Class Education

ADDENDUM

ADDENDUM # 01

DATE: July 29, 2009

REFERENCE: Invitation for Bid: **S-LB-10600**
IFB Issue Date: **July 7, 2009**
Title & Location: Activity Room Additions to Coles/West Gate
Elementary Schools
Architect/Engineer: Moseley Architects
Sealed Bid Due Date and Time: **August 4, 2009, 3:00 PM Local Prevailing Time**

THE FOLLOWING CHANGES, ADDITIONS, DELETIONS AND CLARIFICATIONS ARE HEREBY MADE PART OF THE BIDDING REQUIREMENTS AND CONTRACT DOCUMENTS FOR THE ABOVE REFERENCED PROJECT AND SHALL BE TAKEN INTO ACCOUNT IN THE PREPARATION OF ALL BIDS AND THE EXECUTION OF ALL WORK. BIDDERS SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE APPROPRIATE SPACE ON THE BID FORM.

UNLESS INDICATED OTHERWISE, EACH ADDENDUM ITEM IS APPLICABLE TO BOTH PROJECTS.

GENERAL

CLARIFICATION: This project is not a LEED registered project for certification. However, if the Contract Documents requires LEED submittals, provide all information requested.

SPECIFICATIONS

TABLE OF CONTENTS

- A. DELETE: "00670 PWPCS Certificated of Compliance with Code of Virginia 22.1-296.1" entirely.
- B. REFER to Section 03300 Cast-In-Place Concrete. CLARIFICATION: Section number is indicated as 033000. Change Section number to now read: "03300."
- C. REFER to Section 05120 Structural Steel. CLARIFICATION: Section number is indicated as 051200. Change Section number to now read: "05120."
- D. REFER to Section 05210 Steel Joists. CLARIFICATION: Section number is indicated as 052100. Change Section number to now read: "05210."
- E. REFER to Section 05310 Steel Deck. CLARIFICATION: Section number is indicated as 053100. Change Section number to now read: "05310."
- F. DELETE: "08710 PWPCS HS Finish Hardware" and SUBSTITUTE: "08710 PWPCS ES Finish Hardware."

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- G. DELETE: “15732 Packaged Rooftop Air Conditioners (West Gate Elementary School Only)” and SUBSTITUTE: “15730 Packaged Rooftop Air Conditioners (West Gate Elementary School Only).” CLARIFICATION: Section number is indicated as 15732. Change Section number to now read: “15730.”
- H. DELETE: “Section 16730 PWCPs – Intrusion Detection Security System” entirely.
- I. Under DIVISION 15 MECHANICAL, ADD “Section 15150 - Sanitary Waste and Vent Piping” after 15110 Valves.

SECTION 01010 – SUMMARY OF WORK AND GENERAL PROVISIONS

CLARIFICATION: Refer to E. ALLOWANCES, The indicated amounts shall be applied once for both schools in the Base Bid.

SECTION 04810 – UNIT MASONRY ASSEMBLIES

A. PART 1 – GENERAL, ADD the following:

“1.8 UNIT COST ALLOWANCES

- A. Coles Elementary School: Furnish 2-1/4 inches by 3-5/8 inches by 7-5/8 inches long, nominal, Face Brick under four hundred fifty dollars (**\$450.00**) per thousand. Include solid and special shape face brick units.
 - B. West Gate Elementary School: Furnish 2-3/4 inches by 3-5/8 inches by 7-5/8 inches long, nominal, Face Brick under five hundred seventy five dollars (**\$575.00**) per thousand. Include solid and special shape face brick units.
 - C. Contract Sum will be adjusted to reflect cost of each type of brick selected in accordance with General Conditions. Submit material receipts to verify cost and quantity used, and initiate Change Order process. Each Face Brick unit cost allowance shall include delivery to the site and all required taxes, less applicable trade discounts.”
- B. REFER to 2.13 MISECLLANEOUS MASONRY ACCESSORIES, DELETE E. Cavity Drainage Material and SUBSTITUTE:
- “E. Cavity Drainage Material: Free-draining mesh; made from polyethylene strands that will not degrade within the wall cavity.
 - 1. Provide a configuration of strips, 1-inch thickness for use with cavity-wall insulation and 10 inches wide, with dovetail shaped notches 7 inches deep that prevent mesh from being clogged with mortar droppings. Design standard is Mortar Net UAS, Ltd.”

SECTION 08710 – FINISH HARDWARE

CLARIFICATION: Hardware sets, for the two school projects, are based on set numbers indicated in the DOOR AND FRAME SCHEDULES. Not all hardware sets listed are utilized.

SECTION 09910 – PAINTS

Refer to 1.2 DESCRIPTION OF WORK, Paragraph B., 1., DELETE subparagraphs b. and c. and SUBSTITUTE :

- “b. Be repeated at intervals not exceeding 8 feet measured horizontally along the wall or partition; and
- c. Include lettering not less than 1 inch in height, incorporating the suggested wording: “FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS,” or other wording in fluorescent “safety” orange paint color.”

SECTION 07650 – FLASHING, SHEET METAL AND ROOFING ACCESSORIES

Refer to PART 2 – PRODUCTS, ADD the following:

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“2.9 UNIT SKYLIGHTS (West Gate E.S.)

- D. General: Factory-assembled units that include glazing, extruded-aluminum glazing retainers, gaskets, and inner frames and that are capable of withstanding design loads indicated.
- E. Integral Curb: Self-flashing type.
 - 1. Height: As indicated.
 - 2. Insulation: Manufacturer's standard rigid or semirigid type.
- F. Unit Shape and Size: As indicated.
- G. Glazing: Provide 1-3/16" thick insulating glass with translucent core, consisting of a top layer of 5/16" clear laminated glass over a bottom layer of 3/8" clear laminated glass with a 1/2" air space. Each piece of laminated safety glass shall have an interlayer of "Saflex" plastic as manufactured by Monsanto or an approved substitute.
 - 1. Translucent Core: Provide diffusing cloth layer within each skylight insulating glazing unit. The translucent core shall be "Solera L®" as manufactured by Advanced Glazings Limited.
 - 2. Each piece of laminated glass shall have a permanent logo which signifies Safety Commission 16 CFR 1201 and the safety glass requirements on ANSI Z 97.1 (current editions).
- H. Glazing Gaskets: Manufacturer's standard.
- I. Aluminum Components:
 - 1. Sheets: ASTM B 209, alloy and temper to suit forming operations and finish requirements but with not less than the strength and durability of alclad alloy 3005-H25.
 - 2. Extruded Shapes: ASTM B 221, alloy and temper to suit structural and finish requirements but with not less than the strength and durability of alloy 6063-T52.
 - 3. Anodic Coating: Class I, clear anodic coating complying with AAMA 611.
 - 4. Skylight framing shall be designed to exert no horizontal reactions under vertical gravity type loads, (dead, snow, live).
- J. Available Manufacturers: Subject to compliance with requirements, manufacturers offering prefabricated unit skylights which may be incorporated in the work include, but are not limited to, the following:
 - 1. Naturalite Skylight Systems
 - 2. O'Keeffe's Inc.
 - 3. Skyline Products, Inc./Sky-Lites
 - 4. Solar Industries, Inc.
 - 5. Sunglo Skylights
 - 6. Traco, Skytech Systems, Inc.
 - 7. Velux America; Model CAP, design standard.
 - 8. Wasco Products, Inc., "Pinnacle 300 (PY) Pyramid," design standard.

2.10 DRIP EDGE AND UNIPEAK VENTS (West Gate E.S.)

- A. Vents: Pre-fabricated drip edge and unipeak vent system consisting of formed 0.050 inch aluminum cover of profile indicated, with louvered or perforated ventilation pattern in soffit plane of size indicated for free area requirements. Provide splice plates, terminations, and installation accessories required for installation.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Drip Edge Vent and Unipeak by Air Vent, Inc or comparable product by one of the following:
 - a. Cor-A-Vent, Inc.
 - b. GAF Materials Corporation.
 - c. Mid-America Building Products.
 - d. Trimline Building Products.
 - 2. Minimum Net Free Area: As established by basis of design product of sizes indicated.
 - 3. Width: 2 inch vent area with filter material.
 - 4. Color: As selected by the Architect from manufacturer's entire line."

SECTION 09656- PWCPS-FLEXIBLE FERLAZAZO TILE

DELETE: “FERLAZAZO” and SUBSTITUTE: “TERRAZZO”.

SECTION 10730 – PROTECTIVE COVERS (Coles E.S.)

- A. CLARIFICATION: This specification section is applicable to the outdoor canopy indicated on the Coles Elementary School.
- B. 2.1 MANUFACTURERS, B., 1., ADD: “c. Mason-Florida, LLC.”

SECTION 11480 – ATHLETIC EQUIPMENT

Refer to 1.2 SUMMARY under B. Types of athletic equipment required include the following:

DELETE items 1 through 4 and SUBSTITUTE:

- 1. Basketball backstops: Wall mounted
- 2. Basketball backstops and goals.
- 3. Wall padding.

SECTION 12355 – ES-PLASTIC LAMINATE CASEWORK

REFER to 2.1 MANUFACTURERS, A., 1., ADD: “Fuller & d’Albert, Inc.”.

SECTION 15083–PIPE INSULATION

REFER to 2.1 MANUFACTURES under 2. DELETE “Closed-Cell Phenolic-Foam Insulation” and SUBSITITUTE “Vaporwick[®] Pipe Insulation.”

REFER to 2.1 MANUFACTURES under 2. a. DELETE “Kooltherm Insulation Products, Ltd.” and SUBSITITUTE “Owens-Corning”

REFER to 2.2 INSULATION MATERIALS under B. DELETE “Closed-Cell Phenolic-Foam Insulation: Preformed pipe insulation of rigid, expanded, closed-cell structure. Comply with ASTM C 1126, Type III, Grade 1.” and SUBSITITUTE the following:

- B. Vaporwick[®] Pipe Insulation: Molded fibrous glass pipe insulation shall comply with the requirements of ASTM C 547 and meet ASTM C 585 for sizes required. It shall a wicking type suitable for installation on piping systems operating below 60° F. Product shall include a factory applied integral vapor retarder extending under the evaporator area of the wick. Coverage shall not be less than 98% of the circumference of the product. The exposed evaporation area shall not be less than 0.1 sq. ft./linear ft. of product.
 - 1. Fittings and valves shall be insulated per manufacturer’s instructions:
 - a. Fittings and valves shall be wrapped continuously with wicking material prior to installing insulation to ensure a continuous path for removal of condensation.
 - b. Standard site fabricated connections (e.g. mitered, segmented, or fish mouth) are recommended for bends and fittings.

- c. Standard PVC fittings with blanket insulation or molded/preformed fiberglass fittings may be used.
 - d. Standard oversizing practices shall be used for valves and flanges.
2. All piping shall be supported in such a manner that the insulation is not compromised by the hanger or the effects of the hanger. In all cases, hanger spacing shall be such that the circumferential joint may be made outside the hanger. Cover the evaporating holes with contractor supplied VaporWick Sealing Tape for the length of the metal saddle.
- a. Piping systems 3" (75 mm) in diameter or less, insulated with fiberglass pipe insulation, may be supported by placing saddles of the proper length and spacing under the insulation as designated in Owens Corning Pub. 1-IN-14210.
 - b. For hot or cold piping systems larger than 3" (75 mm) in diameter, operating at temperatures less than +200F (93C) and insulated with fiberglass, inserts such as foam or high-density fiberglass with sufficient compressive strength shall be used to support the weight of the piping system.
 - c. On vertical runs, insulation support rings shall be used as indicated on contract drawings.

REFER to 2.4 ACCESSORIES AND ATTACHMENTS and ADD the following:

D. Accessory materials installed as part of insulation work under this section shall include but not be limited to:

- 1. Wick material for wrapping valves and fittings
- 2. Closure Materials - Sealing Tape, and mastics.
- 3. Support Materials - Hanger straps, hanger rods, saddles, high density support blocks, and support rings.

REFER to 3.5 DELETE ALL of 3.5 and SUBSITUTE the following:

3.5 VAPORWICK PIPE INSULATION APPLICATION

- A. All accessory materials shall be installed in accordance with manufacturer's instructions and in conformance with the current edition of the Midwest Insulation Contractors Association (MICA) "Commercial & Industrial Insulation Standards."
- B. General
 - 1. Install all insulation materials and accessories in accordance with manufacturer's published instructions and recognized industry practices to ensure that it will serve its intended purpose.
 - 2. Install insulation on piping after acceptance tests.
 - 3. Install insulation materials with smooth and even surfaces. Insulate each continuous run of piping with full-length units of insulation, with single cut piece to complete run. Do not use cut pieces or scraps abutting each other. Butt insulation joints firmly to ensure complete, tight fit over all piping surfaces.
- C. Fittings: Wrap valves, fittings, and similar items in each piping system with wicking material to ensure a continuous path (100% coverage) for the removal of condensation.
- D. Cover valves, fittings, and similar items in each piping system using PVC Fitting Covers insulated with material equal in thickness and composition to adjoining insulation.
- E. Seal all fitting joints with contractor supplied VaporWick Sealing Tape or approved vapor retarder mastic compound.
- F. Extend piping insulation without interruption through walls, floors and similar piping penetrations, except where otherwise specified.

REFER to 3.11 INTERIOR INSULATION APPLICATION SCHEDULE under A. Service: Condensate drain piping, 1. Material, DELETE "Closed-Cell Phenolic-Foam pipe insulation" and SUBSITITUTE "Mineral fiber preformed pipe insulation."

REFER to 3.11 INTERIOR INSULATION APPLICATION SCHEDULE under B. Service: Chilled water supply and return.
1. Material, DELETE “Closed-Cell Phenolic-Foam pipe insulation” and SUBSITITUTE “Vaporwick[®] Pipe Insulation.”

REFER to 3.11 INTERIOR INSULATION APPLICATION SCHEDULE under C. Service: Heated hot-water supply and return.
1. Material, DELETE “Closed-Cell Phenolic-Foam pipe insulation” and SUBSITITUTE “Mineral fiber preformed pipe insulation.”

SECTION 15150–SANITARY WASTE AND VENT PIPING

REFER to attached specification SECTION 15150 - SANITARY WASTE AND VENT PIPING.

SECTION 15430–PLUMBING SPECIALTIES

REFER to 2.2 CLEANOUTS, ADD the following:

- C. Floor cleanouts:
 - 1. Body or Ferrule Material: Cast iron or Stainless steel.
 - 2. Clamping Device: Required in tile floors where water proofing membrane is present. Refer to architectural drawings.
 - 3. Outlet Connection: Threaded, Inside calk, or Spigot to suit installation and contractor’s standard installation methods.
 - 4. Closure: Brass plug with tapered threads.
 - 5. Adjustable Housing Material: Cast iron with threads, set-screws or other device to suit installation and contractor’s standard installation methods.
 - 6. Frame and Cover Material and Finish:
 - a. Ceramic Tile floors: Satin finish bronze scoriated cover.
 - b. Quarry Tile floors: Satin finish bronze scoriated cover.
 - c. Vinyl and Linoleum floors: Satin finish bronze scoriated cover.
 - d. Concrete floors: Satin finish bronze scoriated cover.
 - e. Terrazzo floors: Bronze top, recessed to receive terrazzo.
 - f. Carpeted floors: Bronze with carpet cleanout marker.
 - 7. Frame and Cover Shape:
 - a. Ceramic Tile floors: Square.
 - b. Quarry Tile floors: Square.
 - c. Vinyl and Linoleum floors: Round.
 - d. Concrete floors: Round.
 - e. Terrazzo floors: Round.
 - f. Carpeted floors: Round.
 - 8. Top Loading Classification:
 - a. Ceramic Tile floors: Medium Duty.
 - b. Quarry Tile floors: Medium Duty.
 - c. Vinyl and Linoleum floors: Medium Duty.
 - d. Concrete floors: Heavy Duty.
 - e. Terrazzo floors: Medium Duty.
 - f. Carpeted floors: Medium Duty.
 - 9. Secure Areas: Provide torx head screws with center reject pins.

DRAWINGS

DRAWING C3.1 (Coles E.S.)

ADD the following Notes:

- “A. Remove and relocate the existing “Landscape, Brick Pavers, & Wood Ties” to location directed by the Owner. Items to be removed and relocated include: brick pavers, timber planting beds, wooden arbors, and plants. The costs associated with the removal and relocation is covered by the Landscape Allowance. Any costs deducted from the Landscape Allowance must be approved by the Owner.”
- “B. Relocation of the existing electrical service and telephone shall be completed by the Owner prior to the Contractor commencing the Work.”

DRAWING LS1.1 (Coles E.S.)

- A. REFER to BUILDING & LIFE SAFETY DATA, ADD “ICC/ANSI A117.1-2003” under BUILDING CODE REFERENCE.
- G. REFER to FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS, DELETE sentence at bottom reading: “CONSTRUCT MASONRY WALL FIRE RATED ASSEMBLIES IN ACCORDANCE WITH IBC 2006, SECTION 720.1 (2). and SUBSTITUTE the following two sentences:

“CONSTRUCT MASONRY WALL FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE APPROVED ASSEMBLY AS TESTED AND PUBLISHED BY UNDERWRITERS LABORATORIES INC. IN FIRE RESISTANCE DIRECTORY - 2009 - VOL 1: U905.”

“IDENTIFICATION SHALL BE IN ACCORDANCE WITH VUSBC 2006 EDITION SECTION 701.2 FIRE-RESISTANCE ASSEMBLY MARKING.”

DRAWING LS1.1 (West Gate ES)

- A. REFER to BUILDING & LIFE SAFETY DATA, ADD “ICC/ANSI A117.1-2003” under BUILDING CODE REFERENCE.
- B. REFER to FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS, and ADD the following sentence at the bottom:

“IDENTIFICATION SHALL BE IN ACCORDANCE WITH VUSBC 2006 EDITION SECTION 701.2 FIRE RESISTANCE ASSEMBLY MARKING.”

DRAWING LS1.2 (Coles E.S.)

- A. DELETE: FIRE BARRIER UL DESIGN NO. U425 Detail.
- B. REFER to Attached Drawing AD-1, A1 for revisions indicated.

DRAWING LS1.2 (West Gate E.S.)

DELETE: FIRE BARRIER UL DESIGN NO. U425 Detail.

DRAWING A0.2 (Coles E.S.)

- A. DELETE MASONRY WALLS/PARTITION Legend and REFER to Attached Drawing AD-1, A2 for revisions indicated.
- B. REFER to GENERAL PLAN NOTE, ADD, “ 4. EXTERIOR WALLS ARE NOT INDICATED WITH WALL/PARTITION TYPES. REFER TO PLAN DETAILS, WALL SECTIONS, ELEVATIONS, STRUCTURAL DRAWINGS AND OTHER DETAILS TO DETERMINE WALL CONSTRUCTION.”

DRAWING A0.2 (West Gate E.S.)

- A. REFER TO MASONRY WALLS/PARTITION Legend, Remarks column. DELETE: “Where indicated as a fire wall, reference UL design number U906.” And SUBSTITUTE: “Where indicated as a fire wall, reference UL design number U905.”
- B. REFER to GENERAL PLAN NOTE, ADD: “6. EXTERIOR WALLS ARE NOT INDICATED WITH WALL/PARTITION TYPES. REFER TO PLAN DETAILS, WALL SECTIONS, ELEVATIONS, STRUCTURAL DRAWINGS AND OTHER DETAILS TO DETERMINE WALL CONSTRUCTION.”

DRAWING A1.0 (West Gate E.S.)

DEMOLITION PLAN: DELETE masonry infill. Refer to Attached Drawing AD-1, A2

DRAWING A1.1 (Coles E.S.)

CLARIFICATION: DEMOLITION SECOND FLOOR PLAN. Only note areas that have a Keynote for work in contract. Various locations with cross hatch areas in walls are not in contract.

DRAWING A2.0 (West Gate E.S.)

FLOOR PLAN: ADD marker board. Refer to Attached Drawing AD-1, A1.

DELETE masonry infill. Refer to Attached Drawing AD-1, A3

DRAWING A2.1 (Coles E.S.)

FIRST FLOOR PLAN: Revised wall/partition type tags. Refer to Attached Drawing AD-1, A3.

ROOF PLAN: Revised KEYNOTE. Refer to attached Drawing AD-1, A4 for revision.

DRAWING A5.0 (West Gate E.S.)

WALL SECTIONS: DELETE masonry infill. Refer to Attached Drawing AD-1, A4 for revision.

REFER to Attached Drawing AD-1, A5 for revision to sill height.

DRAWING S0.1 (Coles E.S. and West Gate E.S.)

DELETE note #1 of the Structural Steel in the general notes and SUBSTITUTE the following: “All structural steel work shall conform with the following documents: AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, dated

03-09-2005, AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, date 03-18-2005, and with IBC 2006, chapter 35.”

Add the following to note #1 of the Masonry in the general notes: “Masonry to conform with IBC 2006, chapter 35.”

DRAWING S0.1 (Coles E.S)

At note #1 of the Masonry in the general notes, revise year of the ACI530 and ACI530.1 from 02 to 05.

DRAWING S2.1 (Coles E.S)

REFER to attached drawing ADD1-S1 and S2.

DRAWING M0.1 (Coles E.S)

REFER to Attached Drawing AD-1 M4 for revisions indicated.

DRAWING M2.1 (Coles E.S)

REFER to Attached Drawing AD-1 M1, M2, & M3 for revisions indicated.

DRAWING M5.1 (Coles E.S. and West Gate E.S.)

REFER to Detail BRANCH TAKEOFF TO DIFFUSER-SIDE, ADD “WITH QUADRANT LOCKING INDICATOR AND LOCKING WINK NUT.” after “VOLUME DAMPER”.

DRAWING M5.1 (West Gate E.S.)

REFER to Detail GOOSENECK OA INTAKE VENT ROOF TERMINATION DETAIL, relocate gravity back draft damper at duct inlet.

DRAWING M7.1 (Coles E.S. and West Gate E.S.)

REFER to CONTROL SYSTEM SYMBOLS, Delete “(FACTORY INSTALLED)” and SUBSTITUE “(BY DIV 16).”

DRAWING E2.1 (Coles E.S)

REFER to Attached Drawing AD1-E1 for revisions indicated.

DRAWING E1.1 (West Gate E.S.)

REFER to Attached Drawing AD1-E1 for revisions indicated.

DRAWING E2.1 (West Gate E.S.)

REFER to Attached Drawing AD1-E2 for revisions indicated.

DRAWING E2.1 (West Gate E.S.)

REFER to Attached Drawing AD1-E3 for revisions indicated.

DRAWING E2.2 (West Gate E.S.)

REFER to Attached Drawing AD1-E4 for revisions indicated.

END OF ADDENDUM NO.1