

**ADDENDUM NO. 4 - Issued 01-20-2024**

to the Project Manual and Drawings for

**NEW BRINKLEY HIGH SCHOOL  
BRINKLEY SCHOOL DISTRICT  
BRINKLEY, ARKANSAS  
WDD JOB NO. 23-069**

WITTENBERG, DELONY & DAVIDSON, INC.  
5050 NORTSHORE LANE  
NORTH LITTLE ROCK, ARKANSAS 72118  
(501)376-6681

*This addendum forms a part of the contract documents and modifies or interprets the Project Manual and/or Drawings as noted herein.*

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**GENERAL INFORMATION:**

1. Baldwin & Shell Construction Company Pre-Bid Request for Information Log - Brinkley High School Package #3 dated 01/17/2025 is attached to this addendum and is made a part of the Bid Documents.

**REFER TO THE PROJECT MANUAL:**

**Section 01 21 00:**

1. CHANGE Part 1.02.D. Section designation for Staging and Curtain Systems to 11 61 43 in lieu of 11 61 33.
2. ADD to Part 1.02.C. Section 10 14 19 - Dimensional Letter Signage which is inclusive with the allowance amount for all signage (interior and exterior) in Section 10 14 00.

**Section 02 26 00:**

1. ADD 02 26 00.03 - Annex Building Asbestos Sampling Report dated October 03, 2024.
2. ADD 02 26 00.04 - Band Building Asbestos Sampling Report dated October 03, 2024.
3. ADD 02 26 00.05 - Newer Gym Asbestos Sampling Report dated October 03, 2024.
4. ADD 02 26 00.06 - Storage Building Asbestos Sampling Report dated October 03, 2024.

**Section 07 21 16:**

1. OMIT Part 1.01.A.1.a. - Lamtec® Gym Guard liner not required at gymnasium roof portion. Provide SkyLiner® System throughout all PEMB structures. Color to be Bright White.

**Section 07 54 23:**

1. Part 1.07.B. - OMIT reference to 30 Year Warranty; 20 Year Warranty is specified.

**Section 09 64 66:**

1. ADD Part **2.02 MANUFACTURERS**
  - A. Robbins Sports Surfaces (**Basis-of-Design**) 4777 Eastern Ave, Cincinnati, OH 45226, (513) 871-8988.
  - B. Connor Sports, (800) 283-9522, [info@connorsports.com](mailto:info@connorsports.com) .
  - C. Junckers Hardwood, Inc., 270 Lafayette Street #1200, New York 10012, Tel: (212) 334-8060, Mail: [sales@junckershardwood.com](mailto:sales@junckershardwood.com) .
  - D. Kiefer USA, Phone: (800) 322-5448, Email: [info@kieferusa.com](mailto:info@kieferusa.com), Address: 1225 Tri State Parkway, Suite 510, Gurnee, IL 60031.

**Section 11 40 00:**

1. Part 2.4.J.o. - Item 10 Bakers Table, replace with, 16 gauge stainless steel removable overshelf mounted on 1-5/8" outside diameter tubing supports through splash to brackets welded to legs, 2" X 3/16" stainless steel band fully weld to brackets full length and stainless steel double sided pot hooks 8" on centers. Mount 60" above finished floor. Free sides turned down 1-1/2" and back 1/2" on a slight angle and turn up 2" at walls. Rear formed in one piece (seamless) turned down 3-1/2" to enclose rear of overshelf.

**ADDENDUM SPECIFICATION SECTIONS:**

**Section 00 52 00 - Bid Package Schedule, Section 03 35 43 - Polished Concrete Finishing, Section 11 66 00 - Athletic Equipment, and Section 27 10 00 - Structured Cabling dated 01-20-2024 are attached to this addendum and are made a part of the Bid Documents.**

**REVISED DRAWINGS:**

**Sheets A0.2, A1.2, A1.3, A1.4 and A4.4 of original issue date 01-10-2024 and revised 01-20-2025 are attached to this addendum and are made a part of the Bid Documents.**

**END OF ADDENDUM NO. 4**

BRINKLEY HIGH SCHOOL PACKAGE NO. 3  
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SECTION 00 52 00 – BID PACKAGE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes a summary of each contract, including responsibilities for coordination and temporary facilities and controls.
- B. Related Sections include the following:

00 01 01	PROJECT TITLE PAGE
00 01 10	TABLE OF CONTENTS
00 11 16	INVITATION TO BID
00 21 13	INSTRUCTIONS TO BIDDERS <i>(See Package No. 2 Project Manual)</i>
00 31 19	EXISTING CONDITION INFORMATION <i>(See Package No. 2 Project Manual)</i>
00 31 32.01	GEOTECHNICAL DATA <i>(See Package No. 2 Project Manual)</i>
00 31 32.02	COPY OF GEOTECHNICAL REPORT <i>(See Package No. 2 Project Manual)</i>
00 41 00	BID FORM – TRADE CONTRACTOR PACKAGES
00 41 50	BID FORM – MATERIAL SUPPLIER PACKAGES
00 42 00	UNIT PRICES BID FORM
00 52 00	BID PACKAGE SCHEDULE
00 52 10	CONSTRUCTION MANAGER CONTRACT DOCUMENTS
00 72 00	GENERAL CONDITIONS AIA® A201™ - 2017, General Conditions of the Contract for Construction - Package 3
00 73 19.13	OSHA GUIDELINES FOR TRENCH SAFETY <i>(See Package No. 2 Project Manual)</i>
01 11 00	SUMMARY OF WORK <i>(See Package No. 2 Project Manual)</i>
01 21 00	ALLOWANCES
01 23 00	ALTERNATES
01 33 00	SUBMITTAL AND SUBSTITUTION PROCEDURES WD&D Substitution Form <i>(See Package No. 2 Project Manual)</i>
01 45 23	TESTING AND INSPECTION SERVICES <i>(See Package No. 2 Project Manual)</i>
01 50 00	TEMPORARY FACILITIES AND CONTROLS <i>(See Package No. 2 Project Manual)</i>
01 57 23	TEMPORARY STORM WATER STORM RETENTION <i>(See Package No. 2 Project Manual)</i>
01 74 23	FINAL CLEANING <i>(See Package No. 2 Project Manual)</i>

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01 78 00 CLOSEOUT SUBMITTALS (*See Package No. 2 Project Manual*)

- C. Baldwin and Shell Standard Contract Documents: Each and Every Trade Contractor and Materials Purchase Order Company agrees to execute Baldwin and Shell's Standard Subcontract or Material Purchase Order and related Performance Bond and Payment Bond without alteration.
- D. Every Trade Contractor and Material Package bidder agrees to abide by Baldwin & Shell's EEO and Anti-Harassment Policy.
- E. Every Trade Contractor and Material Package bidder agrees to abide by Baldwin & Shell's Substance Abuse Policy.

1.3 COORDINATION

- A. Project Coordinator shall be responsible for coordination between the Trade and Materials Contracts.
  - 1. Construction Manager shall act as Project Coordinator.

1.4 TRADE CONTRACT BID PACKAGES

- A. Trade Contracts are separate contracts with the Construction Manager that represent significant construction activities performed concurrently with and closely coordinated with construction activities performed on the project under other separate trade contracts. Trade Contract Bid Packages for this project include:

- 1. *Asbestos Abatement & Remediation (Phase 1 Previously Bid)*
- 2. *Building Demolition (Phase 1 Previously Bid)*
- 2.a. **Building Demolition Phase 2**
- 3. **Building & Site Concrete**
- 4. *Earthwork & Storm Drainage (Previously Bid)*
- 5. *Site Utilities (Previously Bid)*
- 6. *Earthwork, Storm Drainage, & Site Utilities Combo (Previously Bid)*
- 7. **Masonry**
- 8. **Structural Steel Erection**
- 9. **Millwork & Finish Carpentry**
- 10. **Waterproofing, Air Barrier, & Joint Sealants**
- 11. **Metal Wall Panels**
- 12. **Membrane Roofing**
- 13. **Overhead & Coiling Doors**
- 14. **Glass & Glazing**
- 15. **Drywall & Acoustical**
- 16. **Resilient, Carpet, & Tile Flooring**
- 17. **Polished Concrete**
- 18. **Wood Athletic Flooring**
- 19. **Epoxy Flooring**

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20. **Painting**
21. **Building Plaque**
22. **Miscellaneous Installation**
23. **Lockers**
24. **Flagpoles**
25. **Food Service Equipment**
26. **Athletic Equipment**
27. **Roller Window Shades**
28. **Laboratory Casework & Equipment**
29. **Telescoping Bleachers**
30. **PEMB Erection**
31. **Erection Combo (Structural Steel & PEMB)**
32. **Fire Suppression**
33. **Plumbing**
34. **HVAC**
35. **Mechanical Combo (Plumbing & HVAC)**
36. **Electrical**
37. **Asphalt Paving & Striping**
38. **Landscaping & Irrigation**

1.5 EXTENT OF TRADE CONTRACT WORK

- A. The extent of each trade contract is indicated in the Contract Documents. Except where no other more specific description is contained in the Contract Documents, general names and terminology on the drawings and in specification sections determine which trade contract includes a specific element of work.
- B. Local custom and trade-union jurisdictional settlements do not control the scope of work included in each trade contract. When a potential jurisdictional dispute or similar interruption of construction activities is first identified or threatened, the affected trade contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and its delays.

1.6 CONTRACT DOCUMENTS

- A. The Owner through the Construction Manager will furnish 1 complete electronic set of Contract Documents to the successful trade Contractor for use in construction of the Work unless otherwise negotiated. Each Trade Contractor shall supply complete sets of Contract Documents to subcontractors or material suppliers.
- B. Additional sets of Contract Documents, beyond the sets furnished by the Owner, which are requested by a Trade Contractor, may be purchased from the Construction Manager at the Trade Contractor's expense. Refer to the General Conditions.

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1.7 EXAMINATION OF THE PREMISES

- A. Before submitting proposal, each Trade Contractor will be held to have examined the premises and existing conditions under which Trade Contractor will be obligated to operate or that will in any manner affect the work under this contract.

1.8 RESPONSIBILITIES OF OWNER

- A. Responsibilities of Owner include the following:
  - 1. Owner furnished items as defined in the Contract Documents.

1.9 RESPONSIBILITIES OF CONSTRUCTION MANAGER

- A. Responsibilities of Construction Manager include the following:
  - 1. Provide two primary control points for layout.
  - 2. Provide temporary toilets.
  - 3. Provide 120-volt single phase electrical power fees. The electrical trade contractor is to provide the distribution of temporary power.
  - 4. Provide cost for dumpsters for construction waste, except for masonry waste.
  - 5. Pay for construction testing services as required by the Contract Documents.

1.10 RESPONSIBILITIES OF EACH TRADE CONTRACTOR

- A. All Trade Contractors in excess of \$50,000.00 must furnish a Performance and Payment Bond and it must be on Baldwin and Shell's Standard Bond Forms before a contract can be issued.
- B. Except as otherwise specifically stated in the Contract Documents, each Trade Contractor shall provide and pay for all materials, labor, tools, equipment, transportation, superintendence, engineering and layout, safety, protection of work by others, traffic control, weather protection, clean up, storage, performance and payment bonds and **taxes legally collectable because of the work**. Each Trade Contractor shall provide all other services and facilities of every nature whatsoever necessary to execute the work of each contract and shall deliver the work complete in every respect within the specified time.
- C. Engineering and Layout for your Work.
- D. Coordination with other trades.
- E. Temporary Facilities and Controls: In addition to specific responsibilities for temporary facilities and controls indicated in this Section and in Division 1 Section "Temporary Facilities and Controls", each contractor is responsible for the following:
  - 1. Installation, operation, maintenance, and removal of each temporary facility is usually considered as its own normal construction activity, and costs associated with each facility.

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2. Plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting and electrical power necessary exclusively for its own activities.
  3. Its own storage and fabrication sheds.
  4. Temporary enclosures for its own construction activities.
  5. Waste disposal, including collection and legal disposal of its own hazardous, dangerous, unsanitary, or other harmful waste materials. **Dumpster for construction waste provided by Construction Manager except for waste caused by Demolition trade contractors and Masonry Trade Contractors, Demolition and Masonry Trade Contractors shall haul off site their own waste or provide separate dumpsters for their sole and exclusive use. In no case shall any Demolition or Masonry Trade Contractor dispose of waste in Construction Manager provided dumpsters.**
  6. Progress cleaning of its own areas on a daily basis.
  7. Secure lockup of its own tools, materials, and equipment.
  8. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
  9. Fire stopping of penetrations created by its work.
- F. Existing Conditions: Repair damage to existing improvements, facilities, buildings and utilities to the satisfaction of the Owner, without compromise to existing warranties, at no additional cost to the Owner.

1.11 WORK PERFORMED UNDER SEPARATE TRADE CONTRACTS

- A. This is not a complete list of all Work but is a general guideline. The Contract Documents for these sections determine the total scope of the work. Each Trade Contract Bid Package can be summarized as follows:

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**1. *Asbestos Abatement & Remediation (Phase 1 Previously Bid)***

*This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:*

*02 26 00 – HAZARDOUS MATERIAL ASSESSMENT  
Asbestos Sampling - High School Building  
Asbestos Survey - Small Gym*

*The Scope of Work shall specifically include but not necessarily be limited to the following:*

- a. Engineering & Layout for your Work.*
- b. Cost of Safety for your Personnel*
- c. Protection of Work by Others.*
- d. Daily Clean up.*
- e. Include Work Referred to as in the Related Specifications Section of the Specifications Sections Listed for this Trade Bid Package. All Work Related to or that is Integral for the Completion of the Work Specified under this Trade Bid Package are included.*
- f. Mobilizations & All Necessary Equipment Required for Completion of Work for this Package*
- g. Remove and properly dispose of all hazardous materials as required in the Asbestos Surveys.*
- h. Legally & Completely Dispose of Construction Debris & Provide Dumpsters for your Work.*
- i. Maintain and control dust from abatement.*
- j. Provide Superintendent throughout entire project.*
- k. Include Phase 1 work only.*
- l. File NOI with the Arkansas Department of Environmental Quality per Rule 21.*
- m. Provide temporary power for your work.*

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**2. *Building Demolition (Phase 1 Previously Bid)***

*This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:*

*02 41 13 – SELECTIVE SITE DEMOLITION  
02 41 19 – SELECTIVE STRUCTURE DEMOLITION*

*The Scope of Work shall specifically include but not necessarily be limited to the following:*

- a. *Engineering & Layout for your Work.*
- b. *Cost of Safety for your Personnel*
- c. *Protection of Work by Others.*
- d. *Daily Clean up.*
- e. *Include Work Referred to as in the Related Specifications Section of the Specifications Sections Listed for this Trade Bid Package. All Work Related to or that is Integral for the Completion of the Work Specified under this Trade Bid Package are included.*
- f. *Mobilizations & All Necessary Equipment Required for Completion of Work for this Package*
- g. *Dumpsters for your work.*
- h. *Coordination with Utility Companies.*
- i. *Legally & Completely Dispose of Construction Debris & Provide Dumpsters for your Work. Provide landfill tickets for verification.*
- j. *Building Demo in Entirety - All Structures, MEP / FP Systems, Interior Elements, Furniture, Fixtures, & Equipment.*
- k. *Remove All Utilities Completely. Includes Capping (Make Safe) & Removal of All Utilities Back to the Site Point of Entry above building slab.*
- l. *Dust & Erosion Control as required.*
- m. *Keep Dust/Mud/Rocks off of Roads.*
- n. *Import approved select fill at basement level of High School & Regrade Existing.*
- o. *Provide Earthwork Necessary to Conform Grade to Specified Levels Per Contract Drawings.*
- p. *Include Phase 1 work only.*
- q. *Exclude removal of building foundations except at basement of High School building.*
- r. *Exclude removal of site Asphalt, Sidewalk, Curb & Gutter and Base Rock.*
- s. *Fill Excavations, Open Pits, Trenches, & Holes in Ground Areas Due to Building & above slab utility demo.*
- t. *Provide Superintendent throughout entire project.*

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**2a. Building Demolition (Phase 2)**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 02 41 13 – SELECTIVE SITE DEMOLITION (In Package No. 1 Project Manual)
- 02 41 19 – SELECTIVE STRUCTURE DEMOLITION (In Package No. 1 Project Manual)

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering & Layout for your Work.
- b. Cost of Safety for your Personnel
- c. Protection of Work by Others.
- d. Daily Clean up.
- e. Include Work Referred to as in the Related Specifications Section of the Specifications Sections Listed for this Trade Bid Package. All Work Related to or that is Integral for the Completion of the Work Specified under this Trade Bid Package are included.
- f. Mobilizations & All Necessary Equipment Required for Completion of Work for this Package
- g. Dumpsters for your work.
- h. Coordination with Utility Companies.
- i. Legally & Completely Dispose of Construction Debris & Provide Dumpsters for your Work. Provide landfill tickets for verification.
- j. Building Demo in Entirety - All Structures, MEP / FP Systems, Interior Elements, Furniture, Fixtures, & Equipment.
- k. Remove All Utilities Completely. Includes Capping (Make Safe) & Removal of All Utilities Back to the Site Point of Entry.
- l. Dust & Erosion Control as required.
- m. Keep Dust/Mud/Rocks off of Roads.
- n. Import approved select fill as needed & Regrade Existing.
- o. Provide Earthwork Necessary to Conform Grade to Specified Levels Per Contract Drawings.
- p. Include Phase 2 work only.
- q. Include removal of building foundations.
- r. Exclude removal of site Asphalt, Sidewalk, Curb & Gutter and Base Rock.
- s. Fill Excavations, Open Pits, Trenches, & Holes in Ground Areas Due to Building & below slab utility demo.
- t. Provide Superintendent throughout entire project.

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**3. Building & Site Concrete**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 03 01 00 – Site Concrete Work (In Package No. 2 Project Manual)
- 03 10 00 – Concrete Forming and Accessories (In Package No. 2 Project Manual)
- 03 15 00 – Site Concrete Expansion, Construction, and Contraction Joints (In Package No. 2 Project Manual)
- 03 20 00 – Concrete Reinforcing (In Package No. 2 Project Manual)
- 03 20 01 – Site Concrete Reinforcing (In Package No. 2 Project Manual)
- 03 30 00 – Cast-In-Place Concrete (In Package No. 2 Project Manual)
- 03 60 00 – Grouting (In Package No. 2 Project Manual)
- 07 26 16 – Under Slab Vapor Barrier
- 31 31 16 – Termite Control (In Package No. 2 Project Manual)
- 32 13 13 – Concrete Paving (In Package No. 2 Project Manual)

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations for Phase 1 and 2 as Required to Complete this Bid Package
- h. Provide, Maintain, and Remove Washout Pit Upon Completion
- i. Concrete Foundations; Complete
- j. Slab on Grade, Base Rock, Under-slab vapor barriers, Vapor Barriers; Complete
- k. Raised & Recessed floor slabs, Ramps, Risers, Stairs, Benches, Steps, Seating, Locker bench bases/tops, Complete
- l. Provide Concrete Reinforcing Steel & Devices; Complete
- m. Removal of Debris/Spoils Offsite Generated by Work of this Trade Package
- n. Provide and Install Expansion Joints & Covers that occur in concrete
- o. Provide Concrete Light Pole Bases, including rubbing – Anchor Bolts and Light Poles by Electrical Subcontractor
- p. Install Anchor Bolts, Handrail Sleeves, Embeds, Bollards, Dumpster Gate & Posts – Supplied by Structural Steel Supplier
- q. Include Detectable Warning Surfaces at Sidewalks
- r. Provide all Exterior Sidewalks, Curb & Gutter, Mechanical / Housekeeping / Transformer / Generator Pad, and Dumpster Enclosure Pad and all Base Rock per plans, specs, & Geotechnical Report – Coordinate with Material Suppliers and MEP Subcontractors
- s. Waterstops as Required by Plans and Specs

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- t. Exclude base rock under Asphalt
- u. Termite Control
- v. Grouting of Base Plates
- w. Excavation and Backfill of All Building Concrete Work
- x. Excavation of any recesses slab areas whether located in the Building or on Site
- y. Tie into existing sidewalks, curbs & gutters and concrete paving (to include saw-cutting as needed)
- z. All building & site concrete sawcut, expansion, and control joints
- aa. Exclude Concrete Flagpole Base – By Flagpole Subcontractor
- bb. Exclude Sealed Concrete & Polished Concrete Floor Finishes – to be by Others
- cc. Exclude sidewalk to relocated portable classrooms – By Others
- dd. Laser Screed equipment must be utilized when pouring building slabs
- ee. Provide Unit Prices for All Applicable Items on the Unit Price Bid Form

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**4. *Earthwork & Storm Drainage (Previously Bid)***

*This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:*

*01 57 23 – Temporary Storm Water Pollution Control  
02 41 13 – Selective Site Demolition  
31 00 00 - Earthwork  
31 00 10 – Earthwork - Architectural  
31 11 00 – Clearing & Grubbing  
31 23 33 – Trenching and Backfilling  
32 11 23 – Aggregate Base Course (As it pertains to your work)  
32 92 20 – Temporary Seeding and Mulching  
33 05 33.14 – Corrugated-Wall, Smooth Interior HDPE Pipe  
33 42 10 – Storm Utility Drainage Piping*

*The Scope of Work shall specifically include but not necessarily be limited to the following:*

- a. Engineering and Layout for your work*
- b. Cost of safety for your personnel*
- c. Protection of Work by others*
- d. Daily Clean up*
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included*
- f. Provide All Necessary Equipment Required for Completion of Work*
- g. Multiple Mobilizations for Phase 1 and 2 as Required to Complete this Bid Package*
- h. Furnish and Install Erosion Control Measures for your Work*
- i. Provide, Maintain, and Remove Construction Entrances*
- j. Include Tree Protection*
- k. Salvage engraved brick pavers, bench, sign and marquee digital sign, D.01*
- l. Include removal of items stated to be by Earthwork Contractor, D.01*
- m. Installation, Maintenance, and Removal of SWPPP. (Maintain while on site)*
- n. Include all costs for Grading Permit*
- o. Haul Off of All Debris/Spoils Generated by Work of this Trade Package*
- p. Clear and Grub Site as Shown on Plans and Specs; Remove and dispose of offsite*
- q. Import/Export of Soils Per Plans, Specs, and Geotechnical Report*
- r. Include removal of building foundations/footings*
- s. Include removal of Site Concrete, Asphalt, Sidewalk and Curb & Gutter*
- t. Strip, Stockpile, and Respread Stockpiled Topsoil as Required; haul off any excess*
- u. Backfill curb & gutter*
- v. Maintain clean streets while on site*
- w. Provide All Site Storm and Roof Drainage piping and structures; Complete*
- x. Provide connections to downspouts, including downspout boots*
- y. Provide roof drains to within 5' of building at storm drain lines that run under-slab, final connection by Plumbing Subcontractor*

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- z. Trenching, backfill, and compaction for storm drainage work, per Geotech report*
- aa. Trench Safety*
- bb. Exclude Specified Undercut and Replacement of Unsuitable Soils Allowances*
- cc. Provide applicable Unit Prices on the Unit Prices Bid Form*
- dd. Include modifications to storm drainage structures, complete*

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**5. Site Utilities (Previously Bid)**

*This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:*

- 01 57 23 – Temporary Storm Water Pollution Control*
- 31 23 33 – Trenching and Backfilling*
- 32 11 23 – Aggregate Base Course (As it pertains to your work)*
- 33 01 10.58 – Disinfection of Water Utility Piping System*
- 33 05 05.31 – Hydrostatic Testing*
- 33 05 19 – Ductile Iron utility Water Pipe and Fittings*
- 33 05 31.11 – Polyvinyl Chloride Gravity Sewer Pipe*
- 33 12 19 – Water Utility Distribution Fire Hydrants*
- 33 14 01 – Polyvinyl Chloride Pipe and Fittings*
- 33 30 00 – Sewage Collection System*

*The Scope of Work shall specifically include but not necessarily be limited to the following:*

- a. Engineering and Layout for your work*
- b. Cost of safety for your personnel*
- c. Protection of Work by others*
- d. Daily Clean up*
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included*
- f. Provide All Necessary Equipment Required for Completion of Work*
- g. Multiple Mobilizations for Phase 1 and 2 as Required to Complete this Bid Package*
- h. Furnish and Install Erosion Control Measures for your Work*
- i. Protect and Maintain Condition of Erosion Control Measures Provided Under this Trade Package During the Execution of this Scope of Work*
- j. Provide Domestic Water Service from main to water meter location, complete, to also include all tapping fees, utility company fees, and meter setter.*
- k. Provide Sanitary Sewer Services from main to within 5' from Building, complete – Final Connection by Plumbing Subcontractor.*
- l. Include local sanitary sewer inspection and manhole tie-in fees*
- m. Provide concrete at protection collars for sanitary sewer cleanouts*
- n. Include cutting and capping and/ or removal of sewer lines as shown*
- o. Exclude Grease trap and associated Sanitary Sewer lines – By Plumbing Subcontractor*
- p. Provide Water service from main to meter setter/meter.*
- q. Provide and Install the Irrigation service and setter/meter*
- r. Include local domestic water fees for meters, inspections and tie-ins*
- s. Exclude water service from meter to building – By Plumbing Subcontractor*
- t. Include cutting and capping and/or removal of water lines as shown.*
- u. Site Fire Line to within 5' of building slab edge & all Fire Hydrant assemblies up to and including the Demarcation Valve.*

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- v. *Provide Site FDC from FDC to within 5' of building, complete*
- w. *Exclude gas piping – By Plumbing Subcontractor*
- x. *Trench compaction per Geotech report*
- y. *Trench Safety*
- z. *Exclude Specified Undercut and Replacement of Unsuitable Soils Allowances*
- aa. *Provide applicable Unit Prices on Unit Prices Bid Form*
- bb. *Locate crossing waterline and provide elevation to engineer prior to construction per note on C4.0*
- cc. *Exclude site electrical – By Electrical Subcontractor*

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**6. *Earthwork, Storm Drainage, & Site Utilities Combo (Previously Bid)***

*This Trade Package shall include the complete Scope of Work as described in Trade Contractor Package #4 Earthwork & Storm Drainage and Trade Contractor Package #5 Site Utilities without exception.*

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**7. Masonry**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 04 05 13 – Masonry Mortaring
- 04 05 13.23 – Adhered Masonry Veneer System
- 04 05 23 – Masonry Accessories
- 04 20 00 – Unit Masonry
- 05 50 00 – Metal Fabrications (As it pertains to this scope of work) (In Package No. 2 Project Manual)
- 07 21 00 – Thermal Insulation (Rigid Insulation Behind Masonry)
- 07 84 00 – Firestopping (As it pertains to this scope of work)
- 07 95 13.16 – Exterior Expansion Joint Cover Assemblies (As it pertains to this scope of work)

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others, including concrete floors
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install Masonry Reinforcement; Complete
- i. All CMU Masonry, including ties, anchors, etc; Complete
- j. Provide Bracing of Walls and Openings
- k. Dumpster Enclosure
- l. All Brick Masonry & Modular Masonry Veneer, including at Site Retaining / Stem walls
- m. Receive, unload, shake out, inventory, install and grout HM Frames in CMU Walls (Frames provided by others)
- n. Installation of Lintels – Lintels Provided by Structural Steel Supplier
- o. Furnish and Install Masonry Control/Expansion Joints & Covers, all required Flashings
- p. Progress & Final Cleaning of Masonry
- q. Removal of Debris/Spoils Generated by Work of this Trade Package
- r. Grout Fill CMU Cells as Shown on Plans and Specs
- s. Install only of Exterior Security Vault if in Masonry Wall or Brick Veneer
- t. All Rigid Insulation Behind Brick and CMU; complete
- u. Dumpsters for Masonry Waste legally disposed of offsite
- v. Fire Caulking and Safing as Required at Masonry Walls
- w. Tape to seal penetrations at weather barrier by this trade

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- x. All masonry cavity wall drainage systems; Complete
- y. Furnish and Install all Stone Masonry per drawings and specifications; Complete
- z. Set Structural Embeds in Masonry if required (provided by others)
- aa. Drill holes and provide epoxy dowels (or similar) for work of this trade
- bb. Stenciling of Masonry fire walls
- cc. Erosion Control (SWPPP) for Masonry trade work
- dd. Furnish & Install Exterior Expansion Joint Cover Assemblies when located in this trade's walls
- ee. Door frame installation in CMU walls, including grout
- ff. CMU to be installed up to the deck above if the wall type requires it
- gg. Cast Stone Coping
- hh. Thin Masonry Veneer
- ii. Install Salvaged Marble Sign (7 & 8 / A2.2)
- jj. Furnish and install CMU planter bed walls. Footers provided by Concrete Sub
- kk. Furnish and install CMU and thin stone veneer at site dumpster enclosure. Footers provided by Concrete Sub

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**8. Structural Steel Erection**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 05 05 16 – Preparation of Hot-Dip Galvanized Steel Surfaces for Painting
- 05 10 00 – Structural Steel (In Package No. 2 Project Manual)
- 05 20 00 – Metal Joist (In Package No. 2 Project Manual)
- 05 30 00 – Metal Decking (In Package No. 2 Project Manual)

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering & Layout for your Work.
- b. Cost of Safety for your Personnel
- c. Protection of Work by Others.
- d. Daily Clean up.
- e. Include Work Referred to as in the Related Specifications Section of the Specifications Sections Listed for this Trade Bid Package. All Work Related to or that is Integral for the Completion of the Work Specified under this Trade Bid Package are included.
- f. Multiple Mobilizations & All Necessary Equipment Required for Completion of Work for this Package
- g. Install structural steel
- h. Install metal joists
- i. Install metal decking
- j. Install steel stairs and railings
- k. Install steel plates and angles
- l. Install 1-1/2" steel pipe for Stage Lighting
- m. Install all interior and exterior hand and guard rails complete
- n. Unload, receive, inventory, inspect, distribute, store, protect, and install materials
- o. Protection of concrete from work done above
- p. Temporary shoring/bracing as required
- q. All equipment necessary to complete this scope of work
- r. Protect, and replace if needed, sprayed on fireproofing (if work done after fireproofing is applied)
- s. Coordination between structural steel shop drawings and curtainwall / storefront shop drawings are required
- t. Install dumpster gate frame
- u. Install mechanical roof screen frame (Panels installed by others)
- v. Install removable pipe bollards
- w. Exclude installation of embedded pipe bollards
- x. Install Unistrut as it pertains to structural steel work.
- y. Install steel clip angles, bent plates, bolts and anchors at exterior wall fins.
- z. Install exposed steel trim
- aa. Include crane large enough to erect steel with crane being located outside building pad

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**9. Millwork & Finish Carpentry**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 06 10 00 – Rough Carpentry (As it pertains to this scope of work) (In Package No. 2 Project Manual)
- 06 40 00 – Architectural Woodwork
- 06 61 16 – Solid Surfacing Fabrications

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Field Verify Dimensions Prior to Fabrication
- i. Caulking of Countertops
- j. Millwork, Casework, and Associated Hardware; Complete
- k. Furnish and Install all Laminate work
- l. Furnish and Install Lavatory Counters with Cut Outs at Sinks
- m. Furnish and Install Mailbox millwork
- n. Furnish and Install All Running Wood Trim (Example: ¾” Hardwood Nosing at Detail 5 / A4.5)
- o. Exclude All In-Wall Blocking – Materials and Installation by Others
- p. All Countertops; Complete
- q. All Window Sills; Complete
- r. Tackable Materials where incorporated into Millwork units
- s. All Grommets at Countertops
- t. Corridor Benches
- u. All solid surfacing at millwork
- v. Music education storage casework; Complete

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**10. Waterproofing, Air Barrier, & Joint Sealants**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 07 19 00 – Water Repellants
- 07 27 26 – Fluid-Applied Weather Barriers
- 07 92 00 – Joint Sealants
- 32 13 73 – Pavement Joint Sealants (In Package No. 2 Project Manual)

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Caulking at Masonry Control Joints, Concrete Control Joints
- i. Caulk where Masonry abuts to dissimilar materials
- j. Exterior, Site Hardscape, and All Building Related Caulking
- k. Waterproofing Membrane and Protection Boards; Complete
- l. Fluid-applied Waterproofing/Weather Barrier
- m. Waterproofing systems at Foundation walls / Stem walls;  
to include protection board
- n. Caulking at exterior hollow metal frames
- o. Exclude caulking at plumbing fixtures
- p. Exclude caulking at interior hollow metal frames
- q. Exclude Sound and Fire caulk
- r. Exclude Tyvek
- s. Water repellants on Exterior Brick & Exterior CMU; Complete
- t. Provide and install Backer Rods; Complete
- u. Caulking at Exterior Mechanical Louvers

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**11. Metal Wall Panels**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

06 10 00 – Rough Carpentry (Blocking) (In Package No. 2 Project Manual)  
07 21 00 – Thermal Insulation (As it pertains to this scope of work)  
07 41 13 – Metal Roof Panels (As it pertains to Soffit Panels)  
07 41 20 – Metal Wall Panels  
07 60 00 – Flashing and Sheet Metal  
07 65 00 – Flexible Flashing  
07 71 13 – Manufactured Coping  
07 72 00 – Roof Accessories  
07 95 13.16 – Exterior Expansion Joint Cover Assemblies

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Provide and Install All Metal Wall Panels, Metal Soffit Panels, and all Rigid Insulation behind Metal Wall Panels; Complete
- i. Furnish and Install Rigid Insulation up to the underside of the metal decking where shown at Detail 15 / A5.6 and any similarly detailed occurrences
- j. Furnish and Install All Prefinished Brake Metal Fascia and Wall Panels; Complete
- k. All Z-Furring &/or Hat Channels, Tape to seal penetrations at weather barrier, and Related Components at Metal Wall Panels and Soffit Panels
- l. Metal Wall Panels at Dumpster Gates
- m. All Caulking and Flashing necessary to complete this scope of work
- n. Wood blocking at Prefinished Brake Metal
- o. Exclude Standing Seam Roof Panels, by PEMB Erection subcontractor

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**12. Membrane Roofing**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 05 50 00 – Metal Fabrications (In Package No. 2 Project Manual)
- 06 10 00 – Rough Carpentry (Blocking) (In Package No. 2 Project Manual)
- 07 54 23 – Thermoplastic-Polyolefin Roofing
- 07 60 00 – Flashing and Sheet Metal
- 07 65 00 – Flexible Flashing
- 07 71 13 – Manufactured Coping
- 07 72 00 – Roof Accessories
- 07 95 13.16 – Exterior Expansion Joint Cover Assemblies

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install Membrane Roofing; Complete
- i. Roof Insulation
- j. Roof Hatches at Membrane Roof
- k. Flashing, Penetrations, Curbs, Crickets, Terminations, Expansion Joints and Covers
- l. Verify Installation of All Penetrations
- m. Wood Blocking & Plywood at Membrane Roof and Parapet Blocking for Coping
- n. Warranty
- o. Walk-pads
- p. Furnish and install all membrane roof specialties and accessories; Complete
- q. All Gutters, Downspouts, Splash pans, Splash blocks, Scuppers, Parapet Cap as utilized with this type of roofing system; Complete
- r. Final connections to Site Storm Drainage; Complete

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**13. Overhead & Coiling Doors**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

06 10 00 – Rough Carpentry (Blocking if required) (In Package No. 2 Project Manual)  
08 33 00 – Coiling Doors and Grilles  
08 36 13 – Sectional Doors

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install all supplementary supporting steel
- i. Furnish and Install Overhead & Side Slide Security Grille Doors; Complete
- j. Furnish and Install Overhead Rolling Counter doors; Complete
- k. Furnish and Install Overhead Coiling Doors & Sectional Doors; Complete
- l. Furnish and Install all Overhead & Coiling door trims; Complete
- m. Furnish and Install All Finish Hardware for Security Grille, Overhead Rolling Counter & Coiling Doors; Complete

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**14. Glass & Glazing**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 06 10 00 – Rough Carpentry (Blocking) (In Package No. 2 Project Manual)
- 07 77 00 – Wall Specialties
- 08 41 13 – Aluminum-Framed Entrances and Storefronts
- 08 44 13 – Glazed Aluminum Curtain Walls
- 08 45 23 – 4” Insulated Translucent Fiberglass Sandwich Panel Wall System
- 08 71 00 – Door Hardware (as applicable to Storefront system)
- 08 80 00 – Glazing
- 08 88 53 – Security Glazing

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Prefinished Aluminum Storefront Window Systems and Doors – Interior & Exterior locations; Complete
- i. Curtain wall systems; Complete
- j. Furnish & Install all door hardware for Storefront / Curtain Wall Systems
- k. All Brake Metal Associated with Storefront Systems & Curtain walls
- l. Any Loose Glazing (Example: Detail 1 / A6.1)
- m. Shims as required
- n. All Glass in Hollow Metal Doors & Frames, and in Wood Doors
- o. Coordination between structural steel shop drawings and curtainwall and storefront shop drawings are required
- p. Unframed mirrors
- q. Furnish and Install Translucent Wall Panels
- r. Coordination with other trades to supply and install all loose glazing
- s. Spandrel Glass Panels
- t. Furnish & Install Storefront Door Hardware
- u. All associated flashing and caulking of interior and exterior for a watertight system
- v. Furnish and Install Exterior Fin Wall System; Complete
- w. Furnish and install all Security Glazing
- x. Furnish and install all ¼” Tempered Glass (Details 3 & 4 / A4.10)

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**15. Drywall & Acoustical**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 05 40 00 – Cold Formed Structural Steel Framing (In Package No. 2 Project Manual)
- 06 10 00 – Rough Carpentry (Inwall Blocking, Plywood) (In Package No. 2 Project Manual)
- 06 16 43 – Gypsum Sheathing
- 07 21 00 – Thermal Insulation
- 07 84 00 – Firestopping
- 07 95 13.13 – Interior Expansion Joint Cover Assemblies
- 09 21 16 – Gypsum Board Assemblies
- 09 22 16 – Non-Structural Metal Framing
- 09 51 00 – Acoustical Ceilings
- 09 84 00 – Acoustic Room Components

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Stamped / Engineered Shop Drawings and Calculations
- i. All Metal Stud Framed Assemblies Including Drywall, Exterior Sheathing, Insulation (Batt & Rigid), Fire Stopping, and Sealants
- j. Acoustical Ceilings, Gypsum Ceilings, Sound Diffusers, Baffles, Panels; Including any Aluminum Edge trims (Example: Armstrong Knife Edge trim)
- k. Tile Backer Board, Shaftwall Liner, Impact Resistant, 3/4" Gypsum, or any specialty gypsum boards as required
- l. All In-Wall Wood Blocking & Wood Furring to include Window and Door blocking (Roof Blocking & Parapet Roof Blocking for Coping by Others)
- m. Wood blocking as required behind brick, as required for storefront or curtainwall installation, and as required for roller shades
- n. Flat metal strapping if required for blocking
- o. Acoustical Sound Panels, Barrel Sound Reflectors; Complete
- p. Fire Stopping as required for your Scope of Work
- q. Receive, unload, shake out, inventory and install all hollow metal frames that occur in Drywall Partitions, Provided by Others
- r. Install only of Exterior Security Vault if located within a Light Gauge Metal Framed Wall

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- s. Mineral Wool insulation where required to fill voids
- t. Exclude Rigid Insulation found directly behind Metal Wall Panels, and directly behind Brick – By Others
- u. All Batt Insulation
- v. Fill Voids with Insulation at Exterior Envelope
- w. Install Access Panels as Required in Drywall Assemblies; Supplied by Others
- x. Exterior Sheathing; Complete
- y. Fiberglass Reinforced Wall Panels & Trim; Complete
- z. Provide and Install Expansion Joints & Covers at all Gypsum walls and ceilings
- aa. All Plywood as attached to Light Gauge Framing members (Examples: Detail 7 / A5.9; Detail 17 / A5.6)
- bb. Exclude Tape / Float / Finishing
- cc. All metal trims / Corner beads / Control Joints / Reglets at drywall assemblies
- dd. Stenciling of Metal Stud framed Fire Walls
- ee. Stage, Stairs, and Ramp framing (Refer to Details on A4.5) and any similar, to include Plywood decking
- ff. FRP at Janitor's Sinks
- gg. Furnish and Install light gauge metal stud support framing at soffits; hat channels &/or Z-furring to be by the Soffit Panel Installer

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**16. Resilient, Carpet, & Tile Flooring**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 09 31 00 – Thin-Set Tiling
- 09 65 13 – Resilient Base and Accessories
- 09 65 19 – Resilient Tile Flooring
- 09 68 13 – Tile Carpeting

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Minor Floor Prep & Moisture Testing
- i. Furnish and Install All Rubber Base and Edges
- j. Furnish and Install Carpet, LVT, Resilient flooring, and Rubber Stair Treads/Risers
- k. Exclude Epoxy Flooring, Wood Flooring, Polished Concrete, Sealed Concrete
- l. Floor Protection
- m. Tile Flooring & Wall Tile; to include Base, & Metal Edge protection; Complete
- n. Perform moisture test prior to installation
- o. Walk-Off Carpets
- p. Furnish and Install Expansion joint cover assemblies at this scope flooring only; to exclude any at Sealed Concrete areas

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**17. Polished Concrete**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

03 35 43 – Polished Concrete Finishing

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Polish & Seal Concrete Per Plans and Specs
- i. Light Sanding/Grinding of concrete floor Prior to Sealing as Required
- j. Floor Protection
- k. Joint Sealants at Polished and Sealed Concrete
- l. Perform moisture test prior to installation
- m. Cleaning of slurry off walls / glass and glazing
- n. Provide and Install Expansion joint cover assemblies at polished and sealed concrete only
- o. Additional saw cuts / joints as needed

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**18. Wood Athletic Flooring**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

09 64 66 – Wood Athletic Flooring

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required For Completion Of Work
- g. Multiple Mobilizations As Required To Complete This Bid Package
- h. Furnish And Install Wood Athletic flooring system, including vented wall base, transition ramps, aluminum thresholds, expansion joints, resilient pads, all required substrates, vapor barriers; Complete
- i. Floor Protection
- j. Minor Floor Prep
- k. Include Moisture Testing per specifications
- l. Lettering, all game striping / court lines, & borders
- m. Exclude Center Court Graphic; Will be by Allowance
- n. Finishing, Staining, & Sealing of Wood Athletic Flooring

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**19. Epoxy Flooring**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

09 67 00 – Fluid-Applied Flooring

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install Fluid Applied Flooring/Coatings Per Plans and Specs
- i. Integral Cove Base and Trims
- j. Floor Protection
- k. Include Moisture Testing per specifications
- l. Shower applications

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**20. Painting**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

09 91 00 – Painting

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Prep all surfaces that are to receive paint or stain
- i. Paint Exposed Structural Steel Including Canopies, Bollards, Handrails, and Dumpster Enclosure / Gates
- j. Tape, Float, Finish, and Paint All Drywall Assemblies Including Gypsum Ceilings
- k. Paint CMU
- l. Paint All Handrails
- m. Paint HM Doors and Frames
- n. Paint All Interior Exposed Piping and Raceways
- o. Stain or Paint Exposed Wood as Required; exclude wood athletic flooring
- p. Paint all gas lines that are exposed on the outside of the building; to include those found on the roof
- q. Caulking of dissimilar material joints
- r. All Exterior items that require painting. Exclude line striping and parking symbols at parking lots.
- s. Paint Lettering (Example: Details 1 & 2 / A4.12)

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**21. Building Plaque**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

10 14 00 – Signage

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install Building Plaque
- i. Exclude Interior Signage Allowance
- j. Exclude Building Signage Allowance
- k. Exclude Exterior Handicap Signage

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**22. Miscellaneous Installation**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 08 11 13 – Hollow Metal Doors & Frames (Install Doors Only)
- 08 14 00 – Wood Doors (Install Only)
- 08 71 00 – Door Hardware (Install Only)
- 10 11 00 – Visual Display Units (Install Only)
- 10 11 16 – Glass Marker Boards (Install Only)
- 10 21 13.19 – Solid Plastic Toilet Compartments (Install Only)
- 10 28 13 – Toilet Accessories (Install Only)
- 10 44 00 – Fire Protection Specialties (Install Only)
- 10 80 00 – Other Specialties (Install Only)

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Install Doors (Metal & Wood) & Hardware
- i. Install Toilet Partitions, Accessories, and Restroom Fixtures
- j. Install Fire Extinguishers & Cabinets
- k. Install Visual Display Units
- l. Install Marker Boards and Other Visual Display Devices
- m. Install Tackboards and Map Rails
- n. Install Wall Protection & Corner Guards
- o. Install Shower Rods & Compartments
- p. Install Cubicle Curtains and Track
- q. Install Owner Furnished Wall Mounted Televisions
- r. Install Owner Furnished Residential Appliances
- s. Unload, Receive, Inventory, Inspect, Distribute, Store, Protect, and Install Miscellaneous Items
- t. Exclude Knox Box Installation
- u. Exclude Installation of Storefront Doors and Hardware

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**23. Lockers**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

10 51 13 – Metal Lockers

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install All Lockers & Associated Hardware Per Plans and Specs; Complete
- i. Sloped Tops where indicated
- j. Haul Off of All Debris/Spoils Generated by Work of this Trade Package

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**24. Flagpoles**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

10 75 00 – Flagpoles

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and install all Flagpoles
- i. Furnish and install Concrete Flagpole Bases

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**25. Food Service Equipment**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

11 40 00 – Food Service Equipment

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment for Completion of Work
- g. Multiple Mobilizations as Required
- h. Furnish and Install Kitchen Equipment and Food Service Equipment per plans and specifications; Complete
- i. Exclude Kitchen Hood (By Others)
- j. Sinks as indicated on the drawings to be supplied by KEC
- k. Exclude Dishwasher hood (By Others)

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**26. Athletic Equipment**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

11 66 00 – Athletic Equipment

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install Athletic Equipment and associated Hardware per plans and specs; to include but not limited to, basketball backstops, backboards, goals, volleyball sleeved systems, tensioners, storage bags, padding, net antenna and tape; to include folding and motorized units
- i. Furnish and Install Athletic Wall Padding
- j. Install Electronic Scoreboards (O.F.C.I.; relocated from original competition gym)

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**27. Roller Window Shades**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

12 24 13 – Roller Window Shades

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install All Roller Shade Systems & Window Housings (Manual & Motorized) Per Plans and Specs; Complete

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**28. Laboratory Casework & Equipment**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

12 32 13 – Manufactured Wood-Veneer-Faced Casework

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering & Layout for your Work.
- b. Cost of Safety for your Personnel
- c. Protection of Work by Others.
- d. Daily Clean up.
- e. Include Work Referred to as in the Related Specifications Section of the Specifications Sections Listed for this Trade Bid Package. All Work Related to or that is Integral for the Completion of the Work Specified under this Trade Bid Package are included.
- f. Multiple Mobilizations & All Necessary Equipment Required for Completion of Work for this Package
- g. Furnish and Install all Laboratory Casework, Accessories, & Technical Products
- h. Furnish and install science faucets, plumbing rough in by others.
- i. Furnish and install Goggle cabinets
- j. Furnish and install Chemical storage cabinets
- k. Furnish emergency eye wash station
- l. Furnish and Install Pegboards
- m. Coordinate with plumbing and other trades as necessary
- n. Caulk as required

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**29. Telescoping Bleachers**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

12 66 13 – Telescoping Bleachers

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Gym Floor protection
- i. Furnish and Install Telescoping Bleachers / Hardware / Accessories / Wood Blocking as noted per plans and specs; Complete
- j. Warranty
- k. Plywood Infill behind Top row of Seating (Refer to note on 1 / A1.2)

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**30. PEMB Erection**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 13 34 19 – Metal Building Systems
- 07 21 16 – Blanket Insulation For Metal Buildings
- 07 41 13 – Metal Roof Panels
- 07 60 00 – Flashing and Sheet Metal
- 07 65 00 – Flexible Flashing
- 07 71 13 – Manufactured Coping
- 07 72 00 – Roof Accessories

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering & Layout for your Work.
- b. Cost of Safety for your Personnel
- c. Protection of Work by Others.
- d. Daily Clean up.
- e. Include Work Referred to as in the Related Specifications Section of the Specifications Sections Listed for this Trade Bid Package. All Work Related to or that is Integral for the Completion of the Work Specified under this Trade Bid Package are included.
- f. Multiple Mobilizations & All Necessary Equipment Required for Completion of Work for this Package
- g. Erection of the PEMB building
- h. Install Continuous Snow & Ice Retention System
- i. Install Standing Seam Metal Roof and Associated Insulation System at PEMB Structures Only
- j. Install Gutters and Downspouts Associated with PEMB work
- k. Install PEMB Insulation System
- l. Install Boots / Roof Jacks

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**31. Erection Combo (Structural Steel & PEMB)**

This Trade Package shall include the complete Scope of Work as described in Trade Contractor Package #8 Structural Steel Erection and Trade Contractor Package #30 PEMB Erection without exception.

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**32. Fire Suppression**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 07 84 00 – Firestopping
- 21 05 00 – Common Work Results For Fire Suppression
- 21 05 23 – General-Duty Valves for Water-Based Fire-Suppression Piping
- 21 05 48 – Vibration and Seismic Controls For Fire Suppression Piping and Equipment
- 21 05 53 – Identification For Fire Suppression Piping and Equipment
- 21 11 00 – Facility Fire-Suppression Water-Service Piping
- 21 13 00 – Fire-Suppression Sprinkler Systems

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Design / Engineered by this Subcontractor
- i. Furnish and Install Fire Sprinkler System; Complete
- j. Furnish and Install Underground Fire Line to 5' outside building slab, including connection to previously ran fire line. (Demarcation valve by Others)
- k. Fire department connections
- l. Fire caulk and fire safe all fire protection penetrations as required
- m. Provide all required permits, testing, and certifications
- n. Furnish and install all hangers for equipment and piping, to include seismic requirements; Complete
- o. Install sprinkler heads in ceiling tiles; tiles supplied by others
- p. Furnish Access Panels & Doors for Fire Protection work only; Installed by Others
- q. Fire Pump; complete.

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**33. Plumbing**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 07 84 00 – Firestopping
- 11 40 00 – Food Service Equipment (As Applicable for Hook Ups / Connections)
- 22 00 00 – Supplementary Plumbing General Conditions
- 22 05 17 – Sleeves And Sleeve Seals For Plumbing Piping
- 22 05 23 – General-Duty Valves For Plumbing Piping
- 22 05 29 – Hangers And Supports For Plumbing Piping And Equipment
- 22 05 48 – Vibration And Seismic Controls For Plumbing Piping And Equipment
- 22 05 53 – Identification For Plumbing Piping And Equipment
- 22 07 19 – Plumbing Piping Insulation
- 22 10 05 – Plumbing Piping
- 22 10 06 – Plumbing Piping Specialties
- 22 15 00 – General-Service Compressed-Air Systems
- 22 30 00 – Plumbing Equipment
- 22 40 00 – Plumbing Fixtures

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Plumbing piping, fixtures and equipment; Complete
- i. All Gas piping, fixtures and equipment; Complete
- j. All Building Storm Drainage Piping & Accessories to 5' Outside of Building, including final connections; Complete
- k. All Building Domestic Water Piping and Accessories to water meter; Complete
- l. Furnish and install all required items to connect to utilities 5'-0" from the building, U.N.O. (Reference Trade Packages #4 & #5.)
- m. Grease Traps, Sanitary sewer work from nearest manhole to building (Manhole structure by others), Sanitary Sewer Cleanouts per details; Complete
- n. Rough-in of all kitchen equipment (Spec. 11 40 00)
- o. All Condensate Drain Piping to Structures and Roof Drain Tees; Complete
- p. Haul Off of All Debris/Spoils Generated by Work of this Trade Package
- q. Caulk Plumbing Fixtures
- r. Fire Caulk and Fire Safe All Plumbing Penetrations
- s. New Gas Service Line from Meter to Building

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- t. Backflow Preventer Testing
- u. Include All Plumbing Charges, Permits, and Local Fees for this Scope of Work
- v. Exclude Monthly Water Fees (To be covered by CM as Allowance)
- w. Tag and/or stencil plumbing piping and equipment as required
- x. Water and sewer connection for jobsite trailer
- y. Final Connections of Kitchen Equipment
- z. Compressed-Air System at Agri Shop; Complete
- aa. Final connection of downspouts to the Storm Drainage system
- bb. Install Emergency Eye Wash Stations; Supplied by Others
- cc. Furnish Access Panels & Doors for Plumbing work only; Installed by Others
- dd. Final connection of Laboratory equipment
- ee. Reroute underground gas from Gas Meter to Kitchen at existing Annex Building to avoid new building

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**34. HVAC**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 07 84 00 – Firestopping
- 11 40 00 – Food Service Equipment (Kitchen Hood)
- 12 32 13 – Manufactured Wood-Veneer-Faced Casework (Lab Fume Hood)
- 23 00 00 – Supplementary HVAC General Conditions
- 23 05 13 – Common Motor Requirements For HVAC Equipment
- 23 05 17 – Sleeves And Sleeve Seals For HVAC Piping
- 23 05 29 – Hangers And Supports For HVAC Piping And Equipment
- 23 05 48 – Vibration And Seismic Controls For HVAC
- 23 05 53 – Identification For HVAC Piping And Equipment
- 23 05 93 – Testing, Adjusting, And Balancing For HVAC
- 23 07 13 – Duct Insulation
- 23 07 19 – HVAC Piping Insulation
- 23 09 23 – Direct-Digital Control System For HVAC
- 23 11 23 – Facility Natural-Gas Piping
- 23 23 00 – Refrigerant Piping
- 23 31 00 – HVAC Ducts And Casings
- 23 33 00 – Air Duct Accessories
- 23 34 16 – Centrifugal HVAC Fans
- 23 34 23 – HVAC Power Ventilators
- 23 35 13 – Dust Collection Systems
- 23 37 00 – Air Outlets And Inlets
- 23 72 23 – Packaged Air-To-Air Energy Recovery Units
- 23 74 16 – Packaged Rooftop Air-Conditioning Units
- 23 81 26.13 – Small-Capacity Split-System Air Conditioners

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Furnish and Install HVAC Systems Per Plans and Specs; Complete
- i. HVAC Controls
- j. Duct Detectors on Mechanical Units
- k. Fire caulking & Fire safing at HVAC penetrations as required
- l. Protect, and replace if needed, sprayed on fireproofing if damaged by this trade

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- m. Coordinate overhead work with all other overhead work contractors
- n. Tag and/or stencil HVAC duct and piping as required
- o. Insulate the Top of All Supply Air Diffusers
- p. Provide all air intake grilles, screens, louvers, wall caps, sleeves, vents, layout through walls and caulk as required
- q. Testing & Balance
- r. Temporary Air Filters / Media during Construction; to be replaced as needed
- s. Makeup Air Units
- t. All Exhaust Fan Units (Example: Kitchen, Dishwasher, Lab, Locker Rooms, Agri Shop)
- u. Nederman Modular Hood System Model Number MHG-0505; Complete
- v. Furnish Access Panels & Doors for HVAC work only; Installed by Others
- w. Furnish and Install Kitchen Hoods; Complete
- x. Furnish and Install Dishwasher Hoods; Complete
- y. Supply and Install Laboratory fume hoods; Complete
- z. Furnace / blower platforms
- aa. Dust Collection Systems; Complete
- bb. Packaged Air-To-Air Energy Recovery Units; Complete
- cc. Mechanical curbs; Complete
- dd. HVAC commissioning
- ee. Exclude HVAC Condensate Drain Piping; by Others
- ff. Fabric Ducts and include Line Suspension systems
- gg. Raised Service Platforms
- hh. Kiln Flue and Bird screen; Complete
- ii. All Fume Extraction Units & Systems in Agri Shop
- jj. Coordination through the GC for PEMB Supplier and Structural Steel Supplier for the HVAC openings & penetrations

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**35. Mechanical Combo (Plumbing & HVAC)**

This Trade Package shall include the complete Scope of Work as described in Trade Contractor Package #33 Plumbing and Trade Contractor Package #34 HVAC without exception.

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**36. Electrical**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 07 84 00 – Firestopping
- 11 40 00 – Food Service Equipment (As Applicable for Hook Ups / Connections)
- 26 00 00 – Supplementary Electrical General Conditions
- 26 05 19 – Low-Voltage Electrical Power Conductors And Cables
- 26 05 26 – Grounding And Bonding For Electrical Systems
- 26 05 29 – Hangers And Supports For Electrical Systems
- 26 05 33.13 – Conduit For Electrical Systems
- 26 05 33.16 – Boxes For Electrical Systems
- 26 05 53 – Identification For Electrical Systems
- 26 05 83 – Wiring Connections
- 26 21 00 – Low-Voltage Electrical Service Entrance
- 26 24 13 – Switchboards
- 26 24 16 – Panelboards
- 26 27 26 – Wiring Devices
- 26 28 13 – Fuses
- 26 28 16.16 – Enclosed Switches
- 27 05 29 – Hangers and Supports For Communications Systems
- 27 10 00 – Structured Cabling
- 28 46 00 – Fire Detection and Alarm

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Fire caulking and safing of electrical penetrations
- i. Disconnects and Switches as Required
- j. Furnish and Install All Electrical Items Per Plans and Specs; Complete
- k. Interior & Exterior Lighting; Complete
- l. Digital Lighting Controls
- m. Site Electrical (including Light Poles); Complete (concrete bases by Others)
- n. Furnish Anchor Bolts for Light Pole Bases
- o. Generator; Complete
- p. Automatic Transfer Switches
- q. Fire Alarm System; Complete

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- r. Provide rough-in of Intercom System
- s. Provide rough-in of Security Camera System
- t. Provide rough-in of Access Control System
- u. Provide pull chords as required
- v. Rough in for all items with power requirements
- w. Provide all electrical raceways and conduit systems as required
- x. Provide Audio-Video Rack (Stage); Complete
- y. Provide rough-in of Audio / Visual systems
- z. Exclude Audio / Visual Allowance
- aa. Provide rough-in of Telephone / Data Systems
- bb. Provide Structured Cabling
- cc. Sleeves and layout through walls and slabs required for this scope of work
- dd. Haul Off of All Debris/Spoils Generated by Work of this Trade Package
- ee. Include All Electrical Utility Charges and Permits that Pertain to this Scope of Work
- ff. Exclude temporary electrical to CM Jobsite Trailer, by others
- gg. Temporary lighting and electrical connections, for each floor, during construction
- hh. Coordination with owner supplied vendors is required
- ii. Coordinate overhead work with all other overhead work contractors
- jj. Provide access doors and panels for your work; Installed by others
- kk. Trenching and backfill per Plans, Specs, & Geotech Report
- ll. Final connections of Kitchen Equipment
- mm. Final connections of Theatrical Equipment
- nn. Final connections for Owner provided equipment
- oo. Install Electronical for Scoreboards

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**37. Asphalt Paving & Striping**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 32 11 23 – Aggregate Base Course
- 32 12 16 – Asphalt Paving
- 32 17 23 – Pavement Marking

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Verification of Subgrade Prior to Starting Work
- i. Provide Compacted Base Course under asphalt paving
- j. Exclude Base Rock under Concrete Curbs & Gutters
- k. Provide Standard Duty and Heavy Duty Asphalt; Complete
- l. All Line Striping, HC Signage, Roadway, Fire Lane & Traffic Signage; Complete
- m. Final saw cutting for asphalt tie-ins as required, Tie-in to the existing Paved areas
- n. Provide Unit Prices as Applicable on the Unit Price Bid Form

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**38. Landscaping & Irrigation**

This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 32 84 10 – Underground Sprinkler
- 32 92 19 – Seeding
- 32 92 20 – Temporary Seeding and Mulching
- 32 92 23 – Sodding
- 32 93 01 – Exterior Plants

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering and Layout for your work
- b. Cost of safety for your personnel
- c. Protection of Work by others
- d. Daily Clean up
- e. Include work referred to as in the Related Specifications Section of the Specifications Sections listed for this Trade Bid Package. All Work related to or that is integral for the completion of the Work specified under this Trade Bid Package are included
- f. Provide All Necessary Equipment Required for Completion of Work
- g. Multiple Mobilizations as Required to Complete this Bid Package
- h. Maintain condition of erosion control measures during the execution of scope of work
- i. Provide Landscaping Items Per Plans and Specs; Complete
- j. Furnish and install new topsoil per plans and specs; Complete
- k. Haul Off of All Debris/Spoils Generated by Work of this Trade Package
- l. Mulch; Complete
- m. Topsoil analyzation, testing, and modifications / soil amendments is part of this trade package
- n. Irrigation system; Complete
- o. RPZ and Testing of RPZ; Complete
- p. Irrigation sleeves; Complete
- q. Final grading of topsoil
- r. Maintenance of landscape and irrigation system during Construction Phase and after completing your work, until the project is turned over to the Owner
- s. Warranty for landscape and irrigation work
- t. Sod, Plants, Bushes, Trees; Complete
- u. Steel Edging, Weed barriers, Root barriers
- v. Labelling of vegetation / bushes / shrubs / trees
- w. Hydroseeding
- x. Planting beds; complete
- y. Site brick pavers (Refer to site plan); to include Salvaged Engraved Bricks

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PART 2 - DEFINITION OF THE EXTENT OF TRADE CONTRACT WORK

- A. Determines which Trade contract includes a specific element of work.
- B. Local custom and trade union jurisdictional settlements do not control the scope-of-work included in each Trade contract. When a potential jurisdictional dispute or similar interruption of construction activities is first identified or threatened, the affected Trade contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and its delays.
- C. As point of clarifications, note the following:
  - 1. Construction Manager will provide Temporary Toilets.
  - 2. Construction Manager will be responsible for Temporary Fencing.
  - 3. Construction Manager will be responsible for Geotechnical Testing and Inspections.

1.12 MATERIALS PURCHASE ORDER BID PACKAGES

- A. Materials Purchase Order Bid Packages: All Materials Purchase Order Bid Packages are separate supply contracts with the Construction Manager and shall include furnishing all shop drawings and other required submittals. Coordinate work of these supply contracts with Construction Manager's Representative and work of Trade Contractors. Refer to Contract Documents for details of packages. Material Purchase Order Packages in excess of \$100,000.00 will require a 5% Bid Bond and a 100% Payment Bond. Cost of the 100% Payment Bond is to be included in the Bid Amount. Material Purchase Order Packages for this project include:

- 60. Structural Steel (FOB) (Previously Bid)*
- 61. PEMB (FOB) (Previously Bid)*
- 62. Doors, Frames, & Hardware (FOB)**
- 63. Specialties (FOB)**

1.13 WORK PERFORMED UNDER SEPARATE MATERIALS PURCHASE ORDER BID PACKAGES

- A. This is not a complete list of all Work but is a general guideline. The Contract Documents for these sections determine the total scope of the work. Each Materials Purchase Order Bid Package can be summarized as follows:

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**60. Structural & Miscellaneous Steel Fabrication (FOB) (Previously Bid)**

*This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:*

- 05 10 00 – Structural Steel*
- 05 20 00 – Metal Joists*
- 05 30 00 – Metal Decking*
- 05 40 00 – Cold Formed Structural Steel Framing*
- 05 50 00 – Metal Fabrications (as applicable)*

*The Scope of Work shall specifically include but not necessarily be limited to the following:*

- a. Engineering, Submittals and Shop Drawings*
- b. Exclude Sales Tax*
- c. Provide a bid bond with your bid if the bid is in excess of \$100,000.00.*
- d. Include the costs of premiums for a Material Supply Bond in your bid if the bid is in excess of \$100,000.00.*
- e. Note: Structural Steel Shops at areas where it ties into PEMB shall be provided first to coordinate with PEMB Supplier*
- f. Note: must meet all GALVANIZED requirements*
- g. Coordination through the GC with PEMB Supplier, and MEP Contractors*
- h. Furnish FOB to the project site, All Structural and Miscellaneous steel per Plans and Specs.*
- i. Furnish FOB to the project site, All Composite and Steel Decking*
- j. Furnish FOB to the project site, All Handrails*
- k. Furnish FOB to the project site, All Metal Ladders (Access, Roof) and Bollards*
- l. Furnish FOB to the project site, Anchor Bolts & Base Plates for Structural Steel Items*
- m. Furnish FOB to the project site, embeds & loose lintels*
- n. Furnish FOB to the project site Structural Steel Joists*
- o. Furnish FOB to the project site Dumpster gates, frame, hardware, and supports*
- p. Furnish FOB to the project site, Mechanical equipment frames*
- q. Furnish FOB to the project site, channel tie beam, splice, and embed connections*
- r. Furnish FOB to the project site, 1-1/2" diameter steel pipe for Stage Lighting*
- s. Furnish FOB to the project site, Galvanized steel at Equipment Screen*
- t. Furnish FOB to the project site, steel clip angles, bent plates and anchors at exterior wall fins, assume 5" x 5" bent plate with 1/2" thru bolts to 3" x 5" plate on opposite side. Use silicone washer between steel and aluminum fin to separate dissimilar metals*
- u. Exclude PEMB*
- v. Exclude Stock Hat Channel for Cladding Support*
- w. Exclude Stainless Steel Wall Panels*
- x. Exclude Curtain and Clothes Hanger Rods*

BRINKLEY HIGH SCHOOL PACKAGE NO. 3  
BRINKLEY SCHOOL DISTRICT  
BRINKLEY, ARKANSAS

**61. PEMB (FOB) (Previously Bid)**

*This Trade Package shall include the complete Scope of Work as described in the following Specification Sections without exception:*

*07 21 16 – Blanket Insulation for Metal Buildings  
07 41 13 – Metal Roof Panels  
13 34 19 – Metal Building Systems*

*The Scope of Work shall specifically include but not necessarily be limited to the following:*

- a. Engineering, Submittals and Shop Drawings*
- b. Exclude Sales Tax*
- c. Provide a bid bond with your bid if the bid is in excess of \$100,000.00.*
- d. Include the costs of premiums for a Material Bond in your bid if the bid is in excess of \$100,000.00*
- e. Provide BIM, if required*
- f. Provide Shop Drawings and Reactions*
- g. Provide FOB All Items Associated with Pre-Engineered Metal Building including All Miscellaneous Steel/Metal Associated with PEMB*
- h. Provide any Hangers and Outriggers as noted in drawings as by the M.B. MFR*
- i. Provide any Purlins as noted in drawings as by the M.B. MFR*
- j. Furnish FOB to the project site, All Metal Building Roof Liner Insulation System, including double layer w/thermal break at roof*
- k. Furnish FOB to the project site, Metal Roof Deck at Lo Metal Building Roof per note on S3.3*
- l. Furnish FOB to the project site, all Standing Seam Metal Roof Panels*
- m. Furnish FOB to the project site, All Gutters & Downspouts & Splash Pans at PEMB Structure Only*
- n. Furnish FOB to the project site, All required Flashings and Trims associated with the PEMB*
- o. Furnish FOB to the project site, All PEMB Framing - Primary & Secondary*
- p. Furnish FOB to the project site, All anchor bolts for PEMB*
- q. Furnish FOB to the project site, Snow & Ice Retention System*
- r. All fasteners to be concealed per note on DTL 2/A3.6*
- s. Exclude wall insulation – By Drywall Subcontractor*
- t. Exclude metal wall panels – By Metal Wall Panel Subcontractor*

BRINKLEY HIGH SCHOOL PACKAGE NO. 3  
BRINKLEY SCHOOL DISTRICT  
BRINKLEY, ARKANSAS

**62. Doors, Frames, & Hardware (FOB)**

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

08 11 13 – Hollow Metal Doors & Frames  
08 14 00 – Wood Doors  
08 71 00 – Door Hardware

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering, Submittals and Shop Drawings
- b. Exclude Sales Tax
- c. Provide a bid bond with your bid if the bid is in excess of \$100,000.00.
- d. Include the costs of premiums for a Material Supply Bond in your bid if the bid is in excess of \$100,000.00.
- e. Furnish FOB to the project site All HM Frames, HM Doors, Wood Doors, & Hardware; Complete
- f. Coordination of doors, frames, and hardware with project team

BRINKLEY HIGH SCHOOL PACKAGE NO. 3  
BRINKLEY SCHOOL DISTRICT  
BRINKLEY, ARKANSAS

**63. Specialties (FOB)**

This Material Purchase Order Bid Package shall include the complete Scope of Work as described in the following Specification Sections without exception:

- 10 11 00 – Visual Display Units
- 10 11 16 – Glass Marker Boards
- 10 21 13.19 – Solid Plastic Toilet Compartments
- 10 28 13 – Toilet Accessories
- 10 44 00 – Fire Protection Specialties
- 10 80 00 – Other Specialties

The Scope of Work shall specifically include but not necessarily be limited to the following:

- a. Engineering, Submittals and Shop Drawings
- b. Exclude Sales Tax
- c. Provide a bid bond with your bid if the bid is in excess of \$100,000.00.
- d. Include the costs of premiums for a Material Supply Bond in your bid if the bid is in excess of \$100,000.00.
- e. Furnish FOB to the project site All Toilet Compartments
- f. Furnish FOB to the project site All Toilet Accessories that are not supplied by Owner
- g. Furnish FOB to the project site All Shower Accessories & Compartments
- h. Furnish FOB to the project site All Fire Extinguishers & Cabinets
- i. Furnish FOB to the project site All Visual Display Devices and Projection Screens Including Marker Boards, Tack Boards, Map Rails, and Related Items
- j. Furnish FOB to the project site Knox Boxes Per Plans, Specs, and Local Codes
- k. Furnish FOB to the project site Wall Protection & Corner Guards
- l. Furnish FOB to the project site Cubicle Curtains and Track
- m. Include All Applicable Anchors and Fasteners

BRINKLEY HIGH SCHOOL PACKAGE NO. 3  
BRINKLEY SCHOOL DISTRICT  
BRINKLEY, ARKANSAS

PART 2 – ENGINEERING AND SHOP DRAWINGS

1.14 CONSTRUCTION DRAWINGS AND PROJECT MANUAL

A. The owner (through the Construction Manager) will furnish electronic sets of Contract Drawings and the Project Manuals in the following quantities, without cost, to each Trade Contractor for his use in construction of the work unless otherwise negotiated. Each Trade Contractor is to supply all Contract Drawings and Project Manuals to his subcontractors or material suppliers.

1. Everyone one (1) electronic set except:

a. Trade Contract/Material Purchase Order .....1 set

B. Additional sets or portions of Contract Drawings and Project Manuals, beyond the sets furnished by the Owner, that are requested by a Trade Contractor or Materials Purchase Order Company, will be furnished for the actual cost of printing at the Trade Contractor's or Materials Purchase Order Company's expense.

1.15 EXAMINATION OF THE PREMISES

A. Before submitting his quotation, each Trade Contractor will be held to have examined the premises and satisfied himself as to existing conditions under which he will be obligated to operate or that will in any manner affect the work under this contract.

1.16 TRADE CONTRACTORS USE OF PREMISES

A. General: The Trade Contractors shall limit their use of the premises to construction activities in areas indicated; allow for Owner occupancy and use by the public.

1. Confine operations to areas within contract limits indicated. Portions of the site beyond areas in which construction operations are indicated are not to be disturbed.
2. Burial of waste materials: Do not dispose of organic and hazardous material on site, either by burial or by burning.
3. Each Trade Contractor will be responsible for leaving work area broom clean.

1.17 COLOR RELATED ITEMS

A. Verify color/texture/pattern selections prior to ordering and prior to application/installation.

BRINKLEY HIGH SCHOOL PACKAGE NO. 3  
BRINKLEY SCHOOL DISTRICT  
BRINKLEY, ARKANSAS

1.18 TIME FOR COMPLETION

- A. Time for substantial completion of all work under this contract is **per the Construction Manager's schedule.**

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section Includes:
  - 1. Grinding and Polishing of interior concrete slab.
  - 2. Application of reactive surface densifier.
  - 3. Progressive polishing of slab surface.

**1.02 RELATED DOCUMENTS**

- A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, and Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are in Division 1 of the Specifications.

**1.03 SUBMITTALS AND SUBSTITUTIONS**

- A. In accordance with Section 01 33 00.
- B. Substitutions will not be considered prior to the award of the General Contract.

**1.04 QUALITY ASSURANCE**

- A. Regulatory Requirements:
  - 1. Accessibility Requirements: Comply with applicable requirements of the Americans with Disabilities Act Standards for Accessible Design (ADASAD) for Buildings and Facilities; Final Guidelines, revisions, and updates for static coefficient of friction for walkway surfaces.
  - 2. Environmental Requirements: Comply with current Federal and local toxicity and air quality regulations and with Federal requirements on content of lead, mercury, and other heavy metals. Do not use solvents in floor polish products that contribute to air pollution.
- B. Mock Up: Prior to commencement of work, prepare mock up for evaluation of surface preparation techniques and application workmanship.
  - 1. Designate 250 square feet for mock up of system specified, using same materials, tools, equipment, and procedures intended for actual surface preparation at location determined by the General Contractor. Include properly prepared slab joints. Include slab edges adjoining existing partitions/walls.
  - 2. Notify Architect a minimum 7 days prior to date and time when mockups will be performed and completed.
  - 3. Demonstrate proposed range of aesthetic effects and workmanship.
  - 4. Obtain approval of mockups before proceeding with work.

5. Maintain mockups during construction in undisturbed condition as a standard for judging completed work. Approved mockups may become part of the completed work if acceptable.

#### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver materials to site in original, factory sealed, unopened, new containers (drums) bearing manufacturer's name and label intact and legible, with the following information:
  1. Name or title of material.
  2. Manufacturer's standard container (drum) numbers.
  3. Application instructions.
- B. Dispense penetrating liquid densifier only from factory sealed and numbered containers (drums).
- C. Maintain record of container (drum) numbers received and used during floor treatment.
- D. Storage:
  1. Store materials in protected and well-ventilated area at temperatures between 40 and 90 degrees F unless otherwise required by manufacturer.
  2. Keep containers sealed until ready for use.
  3. Do not use materials beyond manufacturer's shelf life limits.
- E. Handling: Protect materials during handling and application to prevent damage or contamination.

#### **1.06 ENVIRONMENTAL REQUIREMENTS**

- A. Limit and control damage from excessive dust caused by surface preparation and polishing.
- B. Limit and control damage from moisture.
- C. Comply with manufacturer's written instructions for substrate temperature and moisture content, ambient temperature and humidity, ventilation and other conditions affecting product performance.
- D. All replaced concrete shall be cured a minimum of 28 days or until such point equipment can be put on slab without displacing aggregate.

#### **1.07 SEQUENCING AND SCHEDULING**

- A. Comply with approved schedule for sequence of operations for grinding and polishing operations.

## **1.08 WARRANTY**

- A. Installer shall furnish a 5 year labor warranty from the date of installation for acid stain coloring and a 1 year labor warranty for dye coloring process. Hardener / Densifier manufacturer shall furnish a minimum 10 year material limited warranty from the date of installation.

## **PART 2 - PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Subject to compliance with project requirements, provide products and equipment by:
  - 1. American Concrete Concepts, 1360 Covington Park Drive, Conway, AR 72034, Tel.: 479-202-4417.
  - 2. ModernCrete Concrete Design, 2339 Kramer Lane, Austin, TX 78758, 512-331-5555.
  - 3. Approved Equal.

### **2.02 CONCRETE FINISH**

- A. Salt/Pepper Finish **PC-1**: Will have a mixture of cream paste and fine sand exposure. Majority of imperfections should be removed if the flaws are within the cream paste.

### **2.03 SHEEN LEVEL**

- A. Level 1 - Matte Sheen (400 grit): Overhead lighting reflected looking across floor. Looking straight down, no clarity of overhead lighting.

### **2.04 EQUIPMENT**

- A. Contractor to furnish minimum three grinding/polishing machines (HTC 800, CPS 320 or similar) in full operating condition during the duration of work.
  - 1. Planetary, counter rotating variable speed floor grinder (3 or 4 head).
  - 2. Minimum 700 pounds of downward pressure.
- B. Dust extraction system, pre-separator, and squeegee attachments with minimum flow rating of 322 cubic feet per minute.
- C. Generators are required to provide power. The Polished Concrete Contractor is to provide a minimum of two, each capable of running two classic (HTC 800 or similar) grinding machines concurrently to expedite work.
- D. Allowable Grinding Heads:
  - 1. Metal Bonded Diamonds:
    - a. Grit Size: 40, 80, or 150.
    - b. Use of metal bonded diamonds shall be for removal of existing epoxy coating only, unless approved in writing prior to alternate use.

- 2. Resin Bonded, Phenolic Diamonds
  - a. Grit Size: Raptor L-1, Raptor L-2, 100, 200, 400, or 800.
- 3. Grinding/Polishing Pads for Edges:
  - a. Grit Size: 60, 100, 120, 200, 400, 800, 1500, and 3000.
- E. Hand grinder with dust extraction attachment and pads.
- F. High speed propane burnisher:
  - 1. Minimum 27 inch head generating pad speeds of 1,500 RPM or higher, as verified with tachometer.
- G. Diamond Impregnated Pads
  - 1. Twister Diamond Cleaning System Pads, by HTC.
  - 2. Diamond Polishing Pads, by Norton.
  - 3. SpinFlex Diamond Polishing Pads, by CPS.
- H. Applicator pad:
  - 1. Professional Mighty Mop 077, by Quickie.
  - 2. 24" Microfiber Wet Room Pad, by Rubbermaid.

## **2.05 PRODUCTS**

- A. Joint Filler
  - 1. Polyurea joint filler as specified in Section 07 92 00.
- B. Penetrating Hardener/Densifier: Clear liquid reactive lithium-silicate based.
  - 1. Retroplate 99 by Advanced Floor Products.
  - 2. Consolideck LS, by Prosoco.
  - 3. Approved equal by other manufacturer specified herein.

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Examine slab in the presence of the certified applicator, identifying all defects. Correct conditions detrimental to timely and proper work.
- B. Do not proceed until unsatisfactory conditions are corrected as noted below.

### **3.02 SLAB PREPARATION**

- A. Close areas to traffic during and after floor finish application for time period recommended by product manufacturer(s).
- B. Clean Substrate: Removal of surface contaminants to ensure penetration of reactive surface densifier. No hazardous, flammable, toxic or solvent based cleaning materials are permitted.

1. Remove dust and loose material by brushing, sweeping, and vacuuming.
  2. Remove curing, sealing and coating agents, oil, breaking compound residue, wax, and grease by mechanically scraping off heavy deposits. Remove remaining residues using Wax and Curing Compound Remover.
  3. Remove deep-set oil and grease stains.
  4. Remove paint residue.
  5. Remove grease and general soiling with cleaner/degreaser diluted as recommended by manufacturer in an auto scrubber.
  6. Remove mildew by scrubbing with solution of trisodium phosphate and bleach. Rinse with clean water.
  7. Thoroughly rinse floor surface to remove soap residue and contaminants.
  8. Squeegee dry.
- C. Fill slab joints.
- D. Repair all slab defects.
- E. Ensure surfaces are clean, dry, and free of oil, grease, dirt, dust, and contaminants.
- F. Protect surrounding and adjacent surfaces in accordance with floor finish manufacturer's written recommendations. Do not apply tape to the floor. If floor is damaged by tape installation or removal, repair damage.
- G. Grind slab surface with 40, 80 or 150-grit metal-bonded diamond grinding heads to achieve the sand aggregate finish required by the architect.
- H. Progressively polish slab surface with 100 or 200-grit resin-bonded, phenolic diamond heads. Clean slab with wet auto scrubber between polishing passes.
- I. Polish slab with 400 grit resin-bonded, phenolic diamond heads.
- J. Apply dye per plan layout and per manufacturer's instructions.
- K. Clean dye residue per manufacturers instructions.
- L. Apply reactive surface densifier per manufacturer's instructions.
- M. Polish slab with 800 and 1500 grit resin-bonded, phenolic diamond heads.
- N. Apply protective surface treatment per manufacturer's instructions. Draw out material to thin film with applicator pad.
- O. Slowly burnish slab with 400, 800 or 1,500 grit diamond impregnated pad.
  1. Burnisher, pad and pace of forward movement shall combine to develop a minimum floor surface temperature of 91° F directly below the burnishing pad, as measured by the operator during installation.
- P. Progressive edge grinding will be necessary along all vertical abutments.

### **3.03 FINISH REQUIREMENTS**

- A. Gloss: Final surface gloss shall be a Specified Overall Gloss Value (SOGV) of not less than 45 and Minimum Local Gloss Value (MLGV) of 30 as measured using a Horiba IG-320 Gloss Checker.
- B. Slip Resistance: Measured static coefficient of friction (SCOF) shall be not less than 0.50 as measured in accordance with ASTM C 1028.
- C. Leave work complete and ready for final inspection by Architect.

### **3.04 PROTECTION**

- A. General Contractor shall protect areas to receive polished concrete finish at all times during construction to prevent oils, dirt, metal, excessive water, paint and other potentially damaging materials from affecting the finished concrete surface. Protective measures listed below shall begin immediately after completion of and polishing.
  - 1. Inform all subcontractors and trades that slab must be protected at all times.
  - 2. Protect slab surface from moisture for 72 hours to prevent re-emulsification of surface treatment prior to cure.
  - 3. Diaper all hydraulic equipment to avoid staining.
  - 4. Allow no pipe cutting machines on the finished slab.
  - 5. Do not place wood pallets directly on slab surface for 72 hours. Use face down carpet to separate moisture in wood from contact with concrete surface.
  - 6. Do not place steel on the finished slab to avoid rust staining.
  - 7. Prevent contact with acids and acidic detergents.
  - 8. Require use of drop cloths during all painting. Immediately wipe clean spilled paint.

**END OF SECTION 03 35 43**

**PART 1 - GENERAL**

**1.01 DESCRIPTION**

- A. Provide athletic equipment specified.

**1.02 RELATED DOCUMENTS**

- A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, and Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are in Division 1 of the Specifications.

**1.03 SUBMITTALS AND SUBSTITUTIONS**

- A. In accordance with Section 01 33 00.
- B. Substitutions will not be considered prior to the award of the General Contract.

**1.04 QUALITY ASSURANCE**

- A. Furnish at least one person, present at all times, thoroughly familiar with installation requirements of each item, to personally supervise installation.

**1.05 PRODUCT HANDLING**

- A. Protection: Protect miscellaneous specialty items before, during, and after installation. Protect installed work and materials of other trades.
- B. Replacements: In event of damage, immediately make repairs and replacements at Contractor's expense.

**PART 2 - PRODUCTS**

**2.01 CEILING SUSPENDED FORWARD FOLDING BACKSTOP**

- A. Manufacturer: Draper, Inc. (**Basis-of-Design**), with 42" x 72" Regulation Aluminum Framed Glass Backboard, with Backboard Padding (color by architect), 411 South Pearl Street, Spiceland, IN 47385, (765) 987-7999 or approved equal:
  - 1. Porter Athletic Equipment Co., contact Quality Fixtures, (888) 277-7778.
  - 2. Gared Sports, 9200 E 146<sup>th</sup> St, Nobelsville, IN 46060, Tel.: (800) 325-2682

- B. **Type 1:** Ceiling suspended, forward folding, front braced basketball backstop; **Model EZ Fold TF-20.**
1. Distance from court floor to backstop attachment at roof structure: As indicated on Drawings.
  2. Main frame: Rigid T design of back-to-back right triangles constructed by welding together steel tubing of the following outside diameters and gauges. Parallelogram frames are not acceptable.
    - a. Main center stem: 6 inches diameter, 11 gauge of length sufficient to allow backstop height adjustment of plus or minus 6 inches.
    - b. Top member of T frame: 4 inches diameter, 11 gauge.
    - c. Folding front brace: Jackknife type, fully adjustable, self-locking in down position constructed from 2-1/2 inches diameter, 13 gauge outer tube and 2-1/4 inches diameter, 14 gauge inner tube.
    - d. Diagonal side braces: 2-1/4 inches diameter, 14 gauge.
  3. Pivot point: 1-1/4 inches diameter solid steel shaft and 1/2 inch steel plate hangers.
- C. **Type 2:** Ceiling suspended, forward folding, front braced basketball backstop with bent main stem; **Model EZ Fold TF-20S.**
1. Distance from court floor to backstop attachment at roof structure: As indicated on Drawings.
  2. Main frame: Rigid T design of back-to-back right triangles constructed by welding together steel tubing of the following outside diameters and gauges. Parallelogram frames are not acceptable.
    - a. Bent main center stem: 6 inches diameter, 11 gauge. Strut suspended diagonally from roof structure at 22 degrees angle from vertical. Bend at lower end provides vertical member of length sufficient to allow backstop height adjustment of plus or minus 6 inches.
    - b. Top member of T frame: 4 inches diameter, 11 gauge.
    - c. Folding front brace: Jackknife type, fully adjustable, self-locking in down position constructed from 2-1/2 inches diameter, 13 gauge outer tube and 2-1/4 inches diameter, 14 gauge inner tube.
    - d. Diagonal side braces: 2-1/4 inches diameter, 14 gauge.
  3. Pivot point: 1-1/4 inches diameter solid steel shaft and 1/2 inch steel plate hangers.

## 2.02 WALL PROTECTION PADS

- A. Provide standard 2' x 6', No.349-4 standard vinyl covered wall padding (less 1" nailing margins) with 2" bonded neoprene foam filler by Porter Athletic Equipment Co., 1-888-277-7778 or approved equal. Provide attachment Style "A", No.00347-100, 6" long "Z" clip for both horizontal and vertical applications. Provide block-outs where required at electrical outlets or other appurtenances. Vinyl covering to be selected by Architect from manufacturer's complete line.

- B. Corner/Column Pads: Provide Porter No. 355 custom sewn with 2" thick ImpactSafe Foam, a 3-Sided column pad covered with flame-retardant, vinyl-coated polyester sewn casing. Rigid-Backed pads are 2" polyethylene foam bonded to 7/16" wood board. All pads to be upholstered in heavy 15 oz vinyl covering, color to be selected by Architect from manufacturer's complete line.
- C. Provide protective padding at both ends of the gymnasium.

### **2.03 RECESSED VOLLEYBALL STANDARD SLEEVE**

- A. Provide one (1) set of Model 870-100, 3-1/2" diameter, recessed sleeves by Porter Athletic Equipment Co. or approved equal. Material to be Standard Cross-Linked PE Foam (Cross-Linked Polyethylene).

## **PART 3 - EXECUTION**

### **3.01 SURFACE CONDITIONS**

- A. Prior to installation, verify items may be installed in accordance with manufacturers' recommendations.
- B. Notify Architect of conditions that would adversely affect installation.
- C. Do not proceed with installation until unsatisfactory conditions have been corrected.

### **3.02 INSTALLATION**

- A. Install miscellaneous specialties in strict accordance with manufacturers' current recommendations and instructions.

### **3.03 ADJUSTMENT AND CLEANING**

- A. Verify that trim is in place and adjust components.
- B. Remove labels from equipment and remove packing materials from job site.

**END OF SECTION 11 66 00**

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**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Communications system design requirements.
- B. Communications pathways.
- C. Copper cable and terminations.
- D. Fiber optic cable and interconnecting devices.
- E. Communications equipment room fittings.
- F. Communications outlets.
- G. Communications grounding and bonding.
- H. Communications identification.

**1.02 RELATED REQUIREMENTS**

- A. Section 07 84 00 - Firestopping.
- B. Section 26 05 26 - Grounding and Bonding for Electrical Systems.
- C. Section 26 05 33.13 - Conduit for Electrical Systems.
- D. Section 26 05 33.16 - Boxes for Electrical Systems.
- E. Section 26 05 53 - Identification for Electrical Systems: Identification products.
- F. BICSI N1 - Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure, 1st Edition; 2019.

**1.03 REFERENCE STANDARDS**

- A. EIA/ECA-310 - Cabinets, Racks, Panels, and Associated Equipment; Revision E, 2005.
- B. ICEA S-83-596 - Indoor Optical Fiber Cables; 2016.
- C. ICEA S-90-661 - Category 3, 5, & 5e Individually Unshielded Twisted Pair Indoor Cables (With or Without An Overall Shield) For Use in General Purpose and LAN

Communications Wiring Systems Technical Requirements; 2012.

- D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. TIA-455-21 - FOTP-21 - Mating Durability of Fiber Optic Interconnecting Devices; 1988a (Reaffirmed 2012).
- F. TIA-492AAAC - Detail Specification for 850-nm Laser-Optimized, 50-um Core Diameter/125-um Cladding Diameter Class Ia Graded-Index Multimode Optical Fibers; 2009b.
- G. TIA-526-7 - Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant; 2015a.
- H. TIA-526-14 - Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant; 2015c.
- I. TIA-568 (SET) - Commercial Building Telecommunications Cabling Standard Set; 2019.
- J. TIA-568.2 - Balanced Twisted-Pair Telecommunications Cabling and Components Standards; 2009c, with Addendum (2016).
- K. TIA-568.3 - Optical Fiber Cabling and Components Standard; 2016d.
- L. TIA-569 - Telecommunications Pathways and Spaces; 2019e.
- M. TIA-606 - Administration Standard for Telecommunications Infrastructure; 2017c.
- N. TIA-607 - Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises; 2019d.
- O. UL 444 - Communications Cables; Current Edition, Including All Revisions.

- P. UL 514C - Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers; Current Edition, Including All Revisions.
- Q. UL 1651 - Fiber Optic Cable; Current Edition, Including All Revisions.
- R. UL 1863 - Communications-Circuit Accessories; Current Edition, Including All Revisions.

#### **1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination:
  - 1. Coordinate requirements for service entrance and entrance facilities with Communications Service Provider.
  - 2. Coordinate the work with other trades to avoid placement of other utilities or obstructions within the spaces dedicated for communications equipment.
  - 3. Coordinate arrangement of communications equipment with the dimensions and clearance requirements of the actual equipment to be installed.
  - 4. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

#### **1.05 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product.
- C. Shop Drawings: Show compliance with requirements on isometric schematic diagram of network layout, showing cable routings, telecommunication closets, rack and enclosure layouts and locations, service entrance, and grounding, prepared and approved by BICSI Registered Communications Distribution Designer (RCDD).
- D. Evidence of qualifications for installer.
- E. Field Test Reports.

- F. Project Record Documents: Prepared and approved by BICSI Registered Communications Distribution Designer (RCDD).
1. Record actual locations of outlet boxes and distribution frames.
  2. Show as-installed color coding, pair assignment, polarization, and cross-connect layout.
  3. Identify distribution frames and equipment rooms by room number on drawings.
- G. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of project record documents.

## **1.06 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: At least 5 years experience manufacturing products of the type specified.
- B. Installer Qualifications: A company having at least 3 years experience in the installation and testing of the type of system specified, and:
1. Employing a BICSI Registered Communications Distribution Designer (RCDD).
  2. Supervisors and installers factory certified by manufacturers of products to be installed.
- C. Products: Listed, classified, and labeled as suitable for the purpose intended.

## **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Keep stored products clean and dry.

## **1.08 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a 2 year period after Date of Substantial Completion.

## **PART 2 - PRODUCTS**

### **2.01 SYSTEM DESIGN**

- A. Provide a complete permanent system of cabling and pathways for voice and data communications, including cables, conduits and wireways, pull wires, support structures, enclosures and cabinets, and outlets.
1. Comply with TIA-568 (SET) (cabling) and TIA-569 (pathways) (commercial standards).
  2. Provide fixed cables and pathways that comply with NFPA 70 and TIA-607 and are UL listed or third party independent testing laboratory certified.
  3. Provide connection devices that are rated for operation under conditions of 32 to 140 degrees F at relative humidity of 0 to 95 percent, noncondensing.
  4. In this project, the term plenum is defined as return air spaces above ceilings, inside ducts, under raised floors, and other air-handling spaces.
- B. System Description:
1. Building Entrance Cable: By others.
  2. Offices and Work Areas: Provide 2 da in each work area.
- C. Main Distribution Frame (MDF): Centrally located support structure for terminating horizontal cables that extend to telecommunications outlets, functioning as point of presence to external service provider.
1. Locate main distribution frame as indicated on the drawings.
- D. Cabling to Outlets: Specified horizontal cabling, wired in star topology to distribution frame located at center hub of star; also referred to as "links".

## 2.02 COPPER CABLE AND TERMINATIONS

- A. Manufacturers:
1. CommScope
  2. General Cable Technologies Corporation
  3. Siemon Company
- B. Copper Backbone Cable:
1. Description: 100 ohm, balanced twisted pair cable complying with TIA-568.2, ICEA S-90-661, and listed and labeled as complying with UL 444; arranged in 25-pair binder groups.
  2. Cable Type: TIA-568.2 Category 3 UTP (unshielded twisted pair); 24 AWG.
  3. Cable Capacity: Quantity of pairs as indicated on drawings.

4. Cable Applications:
  - a. Plenum Applications: Use listed NFPA 70 Type CMP plenum cable.
  - b. Riser Applications: Use listed NFPA 70 Type CMR riser cable or Type CMP plenum cable.
- C. Copper Horizontal Cable:
  1. Description: 100 ohm, balanced twisted pair cable complying with TIA-568.2 and listed and labeled as complying with UL 444.
  2. Cable Type - Voice and Data: TIA-568.2 Category 6 UTP (unshielded twisted pair); 23 AWG.
  3. Cable Capacity: 4-pair.
  4. Cable Applications: Use listed NFPA 70 Type CMP plenum cable unless otherwise indicated.
  5. Cable Jacket Color - Voice and Data Cable: Blue.
  6. Product(s):
    - a. CommScope; SYSTIMAX Twisted Pair Cables; GigaSPEED XL Category 6 U/UTP Cable
    - b. CommScope; Uniprise Twisted Pair Cables; CS34 Series Category 6 U/UTP Cable
    - c. General Cable Technologies Corporation; GenSPEED Cables:
- D. Jacks and Connectors: Modular RJ-45, non-keyed, terminated with 110-style insulation displacement connectors (IDC); high impact thermoplastic housing; suitable for and complying with same standard as specified horizontal cable; UL 1863 listed.
  1. Performance: 500 mating cycles.
  2. Voice and Data Jacks: 8-position modular jack, color-coded for both T568A and T568B wiring configurations.
  3. Product(s):
    - a. CommScope; SYSTIMAX RJ45 Jacks; MGS400 Series Category 6 U/UTP Modular Jacks
    - b. CommScope; Uniprise RJ45 Jacks; UNJ600 Series Category 6 U/UTP Modular Jacks
- E. Copper Patch Cords:
  1. Description: Factory-fabricated 4-pair cable assemblies with 8-position modular connectors terminated at each end.
  2. Patch Cords for Patch Panels:
    - a. Quantity: One for each pair of patch panel ports.
    - b. Length: 6 feet
  3. Product(s):

- a. CommScope; SYSTIMAX Category 6 U/UTP Patch Cords
- b. CommScope; Uniprise Category 6 U/UTP Patch Cords

## **2.03 FIBER OPTIC CABLE AND INTERCONNECTING DEVICES**

### **A. Manufacturers:**

1. CommScope
2. General Cable Technologies Corporation
3. Siemon Company

### **B. Fiber Optic Horizontal Cable:**

1. Description: Tight buffered, non-conductive fiber optic cable complying with TIA-568.3, ICEA S-83-596 and listed as complying with UL 444 and UL 1651.
2. Cable Type: Multimode, laser-optimized 50/125 um (OM3) complying with TIA-492AAAC.
3. Cable Capacity: 2-fiber.
4. Cable Applications: Use listed NFPA 70 Type OFNP plenum cable unless otherwise indicated.
5. Cable Jacket Color:
  - a. Laser-Optimized Multimode Fiber (OM3/OM4): Aqua.
  - b. Multimode Fiber (OM1/OM2): Orange.
  - c. Single-Mode Fiber (OS1/OS2): Yellow.
6. Product(s):
  - a. CommScope Fiber Optic Cables; TeraSpeed Zero Water Peak Single-Mode Fiber

### **C. Fiber Optic Interconnecting Devices:**

1. Connector Type: Type LC.
2. Connector Performance: 500 mating cycles, when tested in accordance with TIA-455-21.
3. Maximum Attenuation/Insertion Loss: 0.3 dB.
4. Product(s):
  - a. CommScope Fiber Optic Connectors; QWIK II-LC Fiber Connectors

### **D. Fiber Optic Patch Cords:**

1. Description: Factory-fabricated 2-fiber cable assemblies with suitable connectors at each end.
2. Patch Cords for Patch Panels:
  - a. Quantity: One for each pair of patch panel ports.
  - b. Length: \_\_\_\_\_ feet.
3. Product(s):
  - a. CommScope Fiber Optic Patch Cords; TeraSpeed Fiber Patch Cords

## 2.04 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

### A. Copper Cross-Connection Equipment:

1. Manufacturers:
  - a. CommScope
  - b. Siemon Company
2. Connector Blocks for Category 3 Cabling: Type 66 insulation displacement connectors; capacity sufficient for cables to be terminated plus 25 percent spare.
3. Connector Blocks for Category 5e and Up Cabling: Type 110 insulation displacement connectors; capacity sufficient for cables to be terminated plus 25 percent spare.
4. Patch Panels for Copper Cabling: Sized to fit EIA/ECA-310 standard 19 inch wide equipment racks; 0.09 inch thick aluminum; cabling terminated on Type 110 insulation displacement connectors; printed circuit board interface.
  - a. Jacks: Non-keyed RJ-45, suitable for and complying with same standard as cable to be terminated; maximum 48 ports per standard width panel.
  - b. Capacity: Provide ports sufficient for cables to be terminated plus 25 percent spare.
  - c. Labels: Factory installed laminated plastic nameplates above each port, numbered consecutively; comply with TIA-606.
  - d. Provide incoming cable strain relief and routing guides on back of panel.
5. Product(s):
  - a. CommScope; SYSTIMAX Copper Panels; 360-IPR-1100-XX Series Patch Panels
  - b. CommScope; Uniprise Copper Panels; UNP-XX-DM Series Patch Panels

### B. Fiber Optic Cross-Connection Equipment:

1. Manufacturers:
  - a. CommScope
  - b. Siemon Company
2. Patch Panels for Fiber Optic Cabling: Sized to fit EIA/ECA-310 standard 19 inch wide equipment racks; 0.09 inch thick aluminum.
  - a. Adapters: As specified above under FIBER OPTIC CABLE AND INTERCONNECTING DEVICES; maximum of 24 duplex adaptors per standard panel width.
  - b. Labels: Factory installed laminated plastic nameplates above each port, numbered consecutively; comply with TIA-606.
  - c. Provide incoming cable strain relief and routing guides on back of panel.
  - d. Provide rear cable management tray at least 8 inches deep with removable cover.

- e. Provide dust covers for unused adapters.
- 3. Product(s):
  - a. CommScope; SYSTIMAX Fiber Panels; HD Series Patch Panels:  
www.commscope.com/#sle.
  - b. CommScope; Uniprise Fiber Panels; SD Series Patch Panels:  
www.commscope.com/#sle.
- C. Backboards: Interior grade plywood without voids, 3/4 inch thick; UL-labeled fire-retardant.
  - 1. Do not paint over UL label.
- D. Equipment Frames, Racks and Cabinets:
  - 1. Manufacturers:
    - a. CommScope
    - b. Siemon Company
  - 2. Component Racks: EIA/ECA-310 standard 19 inch wide.
  - 3. Floor Mounted Racks: Aluminum or steel construction with corrosion resistant finish; vertical and horizontal cable management channels, top and bottom cable troughs, and grounding lug.
- E. Cable Management:
  - 1. Manufacturers:
    - a. CommScope
    - b. Siemon Company
  - 2. Product(s):
    - a. CommScope Cable Runway
    - b. CommScope Horizontal/Vertical Cable Managers; HCM-SS-XX-XX/VCM-DS-XX-XX Series
    - c. CommScope FiberGuide Raceway

## **2.05 COMMUNICATIONS OUTLETS**

- A. Manufacturers:
  - 1. CommScope
  - 2. Siemon Company
- B. Outlet Boxes: Comply with Section 26 05 33.16.
  - 1. Provide depth as required to accommodate cable manufacturer's recommended minimum conductor bend radius.
  - 2. Minimum Size, Unless Otherwise Indicated:

- a. Voice Only Outlets: 4 inch by 2 inch by 2-1/8 inch deep (100 by 50 by 54 mm) trade size.
- b. Data or Combination Voice/Data Outlets: 4 inch square by 2-1/8 inch deep (100 by 54 mm) trade size.
- c. Fiber Optic Outlets: 4-11/16 inch square by 2-1/8 inch deep (119 by 54 mm) trade size.

C. Wall Plates:

1. Comply with system design standards and UL 514C.
2. Accepts modular jacks/inserts.
3. Capacity:
  - a. As indicated on drawings.

**2.06 GROUNDING AND BONDING COMPONENTS**

- A. Comply with TIA-607.

**2.07 IDENTIFICATION PRODUCTS**

- A. Comply with TIA-606.

**2.08 SOURCE QUALITY CONTROL**

- A. See Section 01 40 00 - Quality Requirements, for additional requirements.
- B. Factory test cables according to TIA-568 (SET).

**PART 3 - EXECUTION**

**3.01 INSTALLATION - GENERAL**

- A. Comply with latest editions and addenda of TIA-568 (SET) (cabling), TIA-569 (pathways), TIA-607 (grounding and bonding), BICSI N1, NFPA 70, and SYSTEM DESIGN as specified in PART 2.
- B. Comply with Communication Service Provider requirements.
- C. Grounding and Bonding: Perform in accordance with TIA-607 and NFPA 70.

**3.02 INSTALLATION OF PATHWAYS**

- A. Install pathways with the following minimum clearances:

1. 48 inches from motors, generators, frequency converters, transformers, x-ray equipment, and uninterruptible power systems.
2. 12 inches from power conduits and cables and panelboards.
3. 5 inches from fluorescent and high frequency lighting fixtures.
4. 6 inches from flues, hot water pipes, and steam pipes.

**B. Outlet Boxes:**

1. Coordinate locations of outlet boxes provided under Section 26 05 33.16 as required for installation of telecommunications outlets provided under this section.
  - a. Mounting Heights: Unless otherwise indicated, as follows:
    - 1) Telephone and Data Outlets: 18 inches above finished floor.
    - 2) Telephone Outlets for Side-Reach Wall-Mounted Telephones: 54 inches above finished floor to top of telephone.
    - 3) Telephone Outlets for Forward-Reach Wall-Mounted Telephones: 48 inches above finished floor to top of telephone.
  - b. Orient outlet boxes for vertical installation of wiring devices unless otherwise indicated.
  - c. Provide minimum of 24 inches horizontal separation between flush mounted outlet boxes installed on opposite sides of fire rated walls.
  - d. Unless otherwise indicated, provide separate outlet boxes for line voltage and low voltage devices.
  - e. Locate outlet boxes so that wall plate does not span different building finishes.
  - f. Locate outlet boxes so that wall plate does not cross masonry joints.

**3.03 INSTALLATION OF EQUIPMENT AND CABLING**

**A. Cabling:**

1. Do not bend cable at radius less than manufacturer's recommended bend radius; for unshielded twisted pair use bend radius of not less than 4 times cable diameter.
2. Do not over-cinch or crush cables.
3. Do not exceed manufacturer's recommended cable pull tension.
4. When installing in conduit, use only lubricants approved by cable manufacturer and do not chafe or damage outer jacket.

**B. Service Loops (Slack or Excess Length):** Provide the following minimum extra length of cable, looped neatly:

1. At Distribution Frames: 120 inches.
2. At Outlets - Optical Fiber: 39 inches.

**C. Copper Cabling:**

1. Category 5e and Above: Maintain cable geometry; do not untwist more than 1/2 inch from point of termination.
  2. For 4-pair cables in conduit, do not exceed 25 pounds pull tension.
  3. Use T568B wiring configuration.
- D. Fiber Optic Cabling:
1. Prepare for pulling by cutting outer jacket for 10 inches from end, leaving strength members exposed. Twist strength members together and attach to pulling eye.
  2. Support vertical cable at intervals as recommended by manufacturer.
- E. Floor-Mounted Racks and Enclosures: Permanently anchor to floor in accordance with manufacturer's recommendations.
- F. Identification:
1. Use wire and cable markers to identify cables at each end.
  2. Use manufacturer-furnished label inserts, identification labels, or engraved wallplate to identify each jack at communications outlets with unique identifier.
  3. Use identification nameplate to identify cross-connection equipment, equipment racks, and cabinets.

### **3.04 FIELD QUALITY CONTROL**

- A. See Section 01 40 00 - Quality Requirements, for additional requirements.
- B. Comply with inspection and testing requirements of specified installation standards.
- C. Visual Inspection:
1. Inspect cable jackets for certification markings.
  2. Inspect cable terminations for color coded labels of proper type.
  3. Inspect outlet plates and patch panels for complete labels.
- D. Testing - Copper Cabling and Associated Equipment:
1. Test backbone cables after termination but before cross-connection.
  2. Test backbone cables for DC loop resistance, shorts, opens, intermittent faults, and polarity between connectors and between conductors and shield, if cable has overall shield.
  3. Test operation of shorting bars in connection blocks.
  4. Category 3 Backbone: Perform attenuation test.
  5. Category 3 Links: Test each pair for short circuit continuity, short to ground, crosses, reversed polarity, operational and ring-back, and dial tone.
  6. Category 5e and Above Backbone: Perform near end cross talk (NEXT) and attenuation tests.

- E. Testing - Fiber Optic Cabling:
1. Backbone: Perform optical fiber end-to-end attenuation test using an optical time domain reflectometer (OTDR) and manufacturer's recommended test procedures; perform verification acceptance tests and factory reel tests.
  2. Multimode Backbone: Perform tests in accordance with TIA-526-14.
  3. Single Mode Backbone: Perform tests in accordance with TIA-526-7.
- F. Final Testing: After all work is complete, including installation of telecommunications outlets, and telephone dial tone service is active, test each voice jack for dial tone.

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**Pre-Bid Request for Information Log - BRINKLEY HIGH SCHOOL PACKAGE #3**      **DATE: 01/17/2025**

Number	Request for Information	Submitted by	Date	Status	Answer	Answered by	Date Answered
1	Please provide ATHLETIC EQUIPMENT specifications.	Sub-Contractor	1/15/2025	CLOSED	These will be provided in forthcoming addendum.	WDD	1/17/2025
2	In reference to the previous PACKAGE #2 RFI #8 Skyliner fabric is not Gym Guard or WMP-VR. Skyliner fabric (Available in White and Black) is manufactured to cover each bay with the purlins not being exposed. Gym Guard facing (Not Available in Black) is designed to be laminated to metal building insulation leaving purlins exposed. If Gym Guard facing is required for an R-value of 29, we will need to provide a Long Tab Banded insulation system leaving the purlins exposed. Are we to provide R29 Skyliner or R29 Long Tab Banded?	Sub-Contractor	1/15/2025	CLOSED	The references to "Gym Guard" liner were NOT correct. Provide "Skyliner System" throughout entire PEMB structure. Color to be bright white.	WDD	1/17/2025
3	Can we be provided with a POLISHED CONCRETE specification?	Sub-Contractor	1/15/2025	CLOSED	This will be provided in forthcoming addendum.	WDD	1/17/2025
4	Please provide clarification for the LOCKERS shown in Agri Shop; for they don't appear to be listed in Specification 10 51 13.	Sub-Contractor	1/15/2025	CLOSED	The lockers in Wood/Agri shop will be procured through furniture budget, not in current scope.	WDD	1/17/2025
5	Please provide clarification for the BENCHES listed in Specification 10 51 13, 2.05, A.; unable to locate them on the drawings.	Sub-Contractor	1/15/2025	CLOSED	These will be noted on the drawings in forthcoming addendum.	WDD	1/17/2025
6	Can a detailed FF&E matrix be supplied noting CF/CI, OF/OI, OF/CI, etc.?	Sub-Contractor	1/15/2025	Pending			
7	Section 01 21 00, Allowances: Is Letter C. Signage - Exterior supposed to reference "10 14 19" in lieu of 10 14 00? Please confirm.	Sub-Contractor	1/15/2025	Pending			
8	Section 01 21 00, Allowances: Letter F. Audio / Visual Systems: Please clarify exactly what this allowance will cover / account for.	Sub-Contractor	1/15/2025	Pending			
9	Section 01 21 00, Allowances: Letter D. Stage Rigging and Curtain Systems: This refers to Spec Section 11 61 33; please confirm if this should be "11 61 43" instead.	Sub-Contractor	1/15/2025	Pending			
10	Many of the interior walls do not have a "Partition Tag" marked. Is there a "Typical Partition" description that all of the untagged ones are to use? Or can these be clarified with some Tags added?	Sub-Contractor	1/15/2025	CLOSED	These will be tagged on the floor plans in forthcoming addendum.	WDD	1/17/2025
11	Please provide Specifications for Intercom Systems.	Sub-Contractor	1/15/2025	Pending			
12	Please provide Specifications for Security Camera Systems.	Sub-Contractor	1/15/2025	Pending			
13	Please provide Specifications for Access Control Systems.	Sub-Contractor	1/15/2025	Pending			
14	Please provide Specifications for Telephone / Communication Systems.	Sub-Contractor	1/15/2025	Pending			
15	Please provide Specifications for Audio / Visual Systems (see also RFI #8, this would help us understand what items are considered part of this).	Sub-Contractor	1/15/2025	Pending			
16	On drawing E6.1 Utility transformer to MSB call for (6 sets) 3-#400 wire and #1/0 ground. We need (6 sets) 4-#400 wire and no ground. Please clarify this with Electrical engineer.	Sub-Contractor	1/15/2025	CLOSED	Yes, provide 6 sets of 4 - #400 in 3" C PVC.	Insight	1/17/2025
17	Detail 6 / A0.2 shows a Premanufactured Coping Cap at the Dumpster; Details 5 / A0.2, 3 / A2.1, & 4 / A2.1 all show Cast Stone Coping. Please clarify which is correct.	Sub-Contractor	1/15/2025	CLOSED	Cast stone is the intent. We will clarify this on the drawings.	WDD	1/17/2025
18	Detail 2 / A3.2 indicates Telescoping Seating at Student Dining; please confirm if this is correct.	Sub-Contractor	1/15/2025	CLOSED	2/A3.2 is incorrect, there are no bleachers in the Student Dining area.	WDD	1/17/2025



Pre-Bid Request for Information Log - BRINKLEY HIGH SCHOOL PACKAGE #3

DATE: 01/17/2025

Number	Request for Information	Submitted by	Date	Status	Answer	Answered by	Date Answered
19	Stage 102 is shown to have a LVT-2 floor per finish schedule; however, Details 3-4-5 / A4.5 have "stage flooring system" & "hardboard stage flooring" noted. Please clarify the exact substrate and floor finish to occur at this area.	Sub-Contractor	1/16/2025	Pending			
20	Please provide dimensions of Doors 149C & 157B.	Sub-Contractor	1/16/2025	Pending			
21	Door 229 is listed as type OC-2 Counter door but the size shown is 8'-3" tall, is this a counter door or a coiling door? Also need to note that this door is the only way in or out is it to be mounted on the exterior of the room?	Sub-Contractor	1/16/2025	Pending			
22	Door 202B listed as type OC (is this a counter door?) size listed at 7' x 8' tall. (A6.3 looks to be smaller in height)	Sub-Contractor	1/16/2025	Pending			
23	Please provide information for "UR-1"; do not see it on the fixture schedule.	Sub-Contractor	1/16/2025	Pending			
24	Door 112 is showing an aluminum door but a hollow metal frame in the door schedule on page A5.4, Is this correct?	Sub-Contractor	1/17/2025	Pending			
25	Drawing Sheet A2.3: Can you please confirm if frames F, J, & I are to be GL-1 or GL-2?	Sub-Contractor	1/17/2025	Pending			
26	Drawing Sheet A2.4: Can you please confirm if frames W, X, Y, Z are to be GL-2?	Sub-Contractor	1/17/2025	Pending			
27	Given the statement in Spec. Section 28 46 00, 2.01, A., #5: "not directly listed"; will Honeywell/ <u>ECl Gamewell</u> be accepted for the Fire Alarm/Evac System? It meets or exceeds the specs provided. (Honeywell Security & Fire Solutions / <u>Notifier</u> is listed in line #1.)	Sub-Contractor	1/17/2025	Pending			
28	Spec. 07 54 23, 1.07, B. states "Firestone 20 year [ 30 Year ].....warranty"; please clarify if this is to be a 20 or 30 year warranty.	Sub-Contractor	1/20/2025	Pending			



#9 Remington Cove  
Little Rock, Arkansas 72204  
Phone: 501-562-3818  
Fax: 501-562-5701  
Toll Free: 1-800-530-7706

# Asbestos Sampling

**To:** Brad Chilcote, AIA, LEED AP, ALP  
WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**From:** Gary Nooner

**Email:** [bradc@wddarchitects.com](mailto:bradc@wddarchitects.com)

**Fax:**

**Date:** October 3, 2024

---

**Phone:** 501-376-6681

**Cell:** 501-425-3940

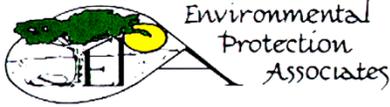
**Pages:** 17 Including cover sheet

**Re:** Annex Building  
Brinkley Public Schools

**cc:**

---

**Comments**



#9 Remington Cove  
Little Rock, Arkansas 72204  
501-562-3818  
Fax 501-562-5701

October 3, 2024

WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**RE: Asbestos Sampling**

Annex Building  
Brinkley Public Schools  
200 Tigers Drive  
Brinkley, AR 72021

**Mr. Brad Chilcote, AIA, LEED AP, AL**

On September 29, 2024 at your request I collected samples from the above referenced location to determine if asbestos was present. Twenty-one (21) samples were collected for laboratory analysis. One (1) material was assumed to be asbestos containing.

Laboratory analysis of these samples have determined the following:

**Asbestos Detected in the following Materials**

	<b>Description</b>	<b>Location</b>	
<b>Sample # 3</b>	Soffit	Main Building	Approx. 2,850 Sft.
<b>Sample # 4</b>	Window Caulking	Main Building	Approx. 60 openings
<b>Sample # 6</b>	Window Caulking	Kitchen	Approx. 10 openings
<b>Sample # 7</b>	Floor tile and Mastic	Main Building (near room A-8)	Approx. 20,500 Sft.
<b>Sample # 13</b>	Floor tile and Mastic	Main Building (near room A-14)	See Sample # 7
<b>Sample # 14</b>	Sheetrock & Joint Compound	Above Lockers in Hallway	Approx. 2,000 Sft.
<b>Sample # 15</b>	Floor tile and Mastic	Main Building (near room A-2)	See Sample # 7
<b>Sample # 17</b>	Floor tile and Mastic	Vault	Approx. 60 Sft.
<b>Sample # 18</b>	Pipe Insulation Debris	Main Hallway	Approx. 3,500 Sft.
<b>Sample # 19</b>	Floor tile and Mastic	Cafeteria	Approx. 2,400 Sft.
<b>Assumed</b>	Transite Lab top (green)	Room A-18	Approx. 16 Sft.

I had the Laboratory perform a composite sample of the sheetrock and joint compound. This additional sampling has determined that the sheetrock and joint compound contains less than 1% (<1%) Chrysotile asbestos.

Federal and state regulations with the exception of OSHA, determine a material to be asbestos containing if it contains 1% or more asbestos. OSHA states that any amount is an asbestos material.

Therefore the following materials must be removed by a licensed asbestos contractor if disturbed by renovation or demolition.

**Transite Soffit, window caulking, Floor tile and Mastic, Pipe insulation debris and Transite Lab top**

However the sheetrock and joint compound may now be considered a Non-Asbestos material and left in place for renovation/demolition.

The Renovation / Demolition contractor will be required to follow OSHA regulations concerning asbestos, if this material is left in place.

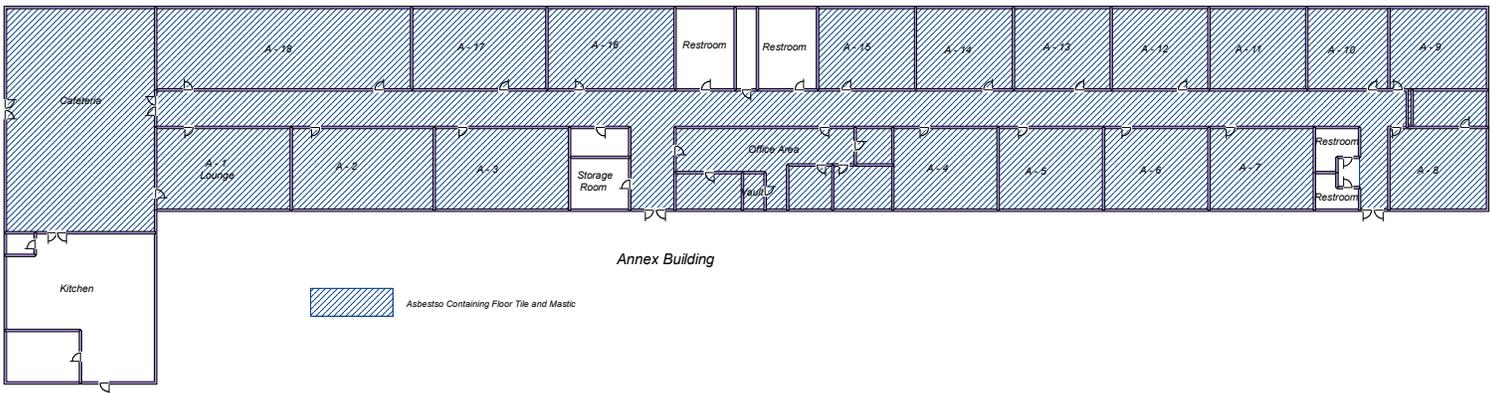
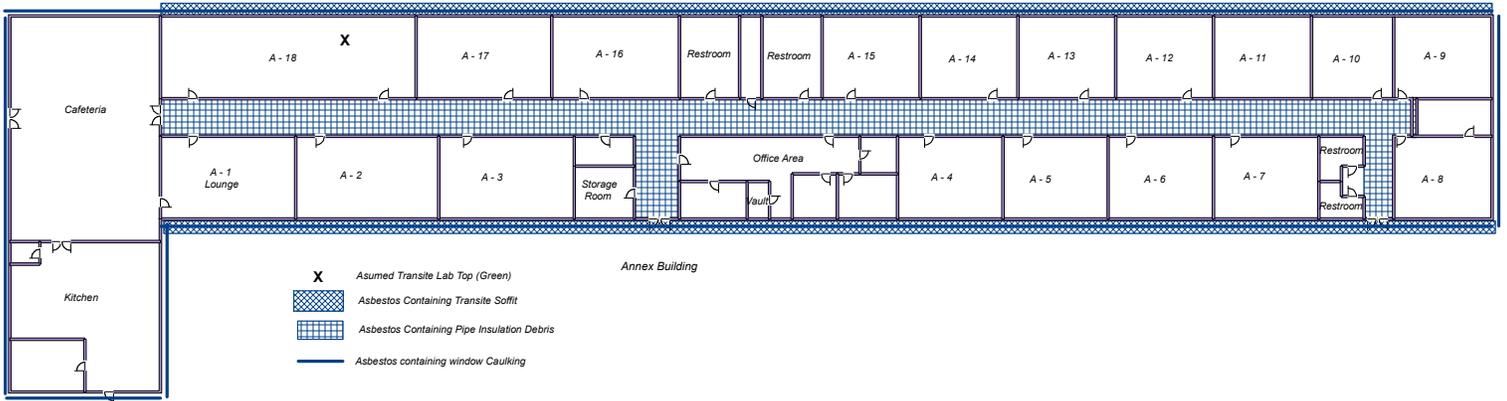
For further clarification of the Arkansas asbestos regulation 21. You may contact the Arkansas Department of Environmental Quality (ADEQ) Phone - 501-682-0718 or visit their website at - [www.adeg.state.ar.us](http://www.adeg.state.ar.us)

I have attached my chain of custody and laboratory findings. Please contact me with any Questions you may have.

Sincerely,

Gary Nooner  
Inspector  
License No. 005065

Enclosures





# Asbestos Sampling Chain of Custody Field Data Sheet

#9 Remington Cove  
Little Rock, Arkansas 72204  
501-562-3818  
Fax 501-562-5701

**Client**  
Brad Chilcote, AIA, LEED AP, ALP  
WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**Property**  
Annex Building  
Brinkley Public Schools  
200 Tigers Drive  
Brinkley, AR 72021

**Inspector**  
Gary Noonan  
Annex Building  
Date: 9/29/2024  
Turnaround Time: Rush (24 hour)

SAMPLE	ID	HA	Sample Description	Sample Location	A	C	Class (S,T,M)	Friability (F,NF)	Condition (G,D,SD)	Damage (%)	POT, DAM (L,M,H)	Quantity
A-1			Roofing	Roof - Cafeteria	X		M	NF	G	10%	H	+/- 2,600 Sft
A-2			Roofing	Roof - Kitchen and Main Building	X		M	NF	G	10%	H	+/- 24,000 Sft
A-3			Soffit	Main Building	X		M	NF	G	10%	H	+/- 2,850 Sft
A-4			Window Caulk	Main Building	X		M	NF	G	15%	H	Undetermined
A-5			Window Putty	Kitchen	X		M	NF	G	15%	H	10 windows
A-6			Window Caulk	Kitchen	X		M	NF	G	15%	H	10 windows
A-7			Floor tile and mastic	Main Building (near room A-8)	X		M	NF	G	10%	H	+/- 20,500 Sft
A-8			No Drip Tape	HVAC Closets	X		M	NF	G	10%	H	+/- 60 ft
A-9			Lay-in Ceiling Tile	Throughout	X		M	F	G	10%	H	+/- 22,000 Sft
A-10			Lay-in Ceiling Tile	Throughout	X		M	F	G	10%	H	See Above
A-11			Lay-in Ceiling Tile	Throughout	X		M	F	G	10%	H	See Above
A-12			Ceramic tile and grout	Restrooms	X		M	NF	G	10%	H	+/- 1,000 Sft
A-13			Floor tile and mastic	Main Building (near room A-14)	X		M	NF	G	10%	H	See Sample A-7
A-14			Sheetrock and Joint Compound	Above Lockers in Hallway	X		M	NF	G	10%	H	+/- 2,000 Sft
A-15			Floor tile and mastic	Main Building (near room A-2)	X		M	NF	G	10%	H	See Sample A-7
A-16			Floor tile and mastic	Storage Room	X		M	NF	G	10%	H	+/- 220 Sft
A-17			Floor tile and mastic	Vault	X		M	NF	G	10%	H	+/- 60 Sft
A-18			Pipe Insulation Debris	Main Hallway	X		T	F	SD	60%	H	+/- 3,500 Sft
A-19			Floor tile and mastic	Cafeteria	X		M	NF	G	10%	H	+/- 2,400 Sft
A-20			Floor tile and mastic (on wood)	Kitchen-restroom	X		M	NF	G	10%	H	+/- 1,600 Sft
A-21			Floor tile and mastic	Kitchen	X		M	NF	G	10%	H	+/- 60 Sft
Assumed			Transite Lab top (Green)	Room A-18			M	NF	G	10%	H	+/- 20 Sft

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative.

Class: S-surfacing, T-thermal, M-miscellaneous, Friability: F-friable, NF-non-friable, Condition: G-good, D-damaged, SD-severely damaged, POT, DAM (Potential Damage): L-low, M-moderate, H-high

Relinquished By: Henry Davis Time: 07:00 Date: 9-30-24

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

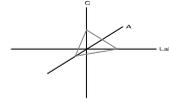
Relinquished By: \_\_\_\_\_ Time: 10:30AM Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: **Composite Sample all positive Shetrock and Joint Compound Samples** UC1 U1 2024

**CA Labs**  
Dedicated to Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Environmental Protection Associates**

#9 Remington Cove  
Little Rock, AR 72204

**Attn:** Gary Nooner

Customer Project: Annex Building, Brinkley Public Schools  
Reference #: CAL24107706AS Date: 10/02/24

#### **Analysis and Method**

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235*  
**AIHA LAP, LLC Laboratory #102929**

Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>		Annex Building, Brinkley Public Schools			<b>CA Labs Project #:</b> CAL24107706AS	
Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
82321	A-3	A-3-1	<b>Soffit/</b> gray transite	<b>21% Chrysotile</b>	<b>gray transite black sealant brown surfaced gray caulking black and tan mastic</b>	
82322	A-4	A-4-1	<b>Window Caulk/</b> black sealant	<b>2% Chrysotile</b>	<b>off-white surfaced white compound composite of layers 1 and 2 tan floor tile</b>	
82324	A-6	A-6-1	<b>Window Caulk/</b> brown surfaced gray caulking	<b>3% Chrysotile</b>	<b>black mastic tan layered insulation</b>	
82325	A-7	A-7-2	black and tan mastic	<b>2% Chrysotile</b>		
82331	A-13	A-13-2	black and tan mastic	<b>2% Chrysotile</b>		
82332	A-14	A-14-1	<b>Sheetrock and Joint Compound/</b> off-white surfaced white compound	<b>2% Chrysotile</b>		
82332		A-14-3	composite of layers 1 and 2	<b>&lt;1% Chrysotile</b>		
82333	A-15	A-15-2	black and tan mastic	<b>2% Chrysotile</b>		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested as received. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>		Annex Building, Brinkley Public Schools		<b>CA Labs Project #:</b> CAL24107706AS	
Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

82335	A-17	A-17-1	<b>Floor Tile and Mastic/ tan floor tile</b>	<b>2% Chrysotile</b>	
82335		A-17-2	<b>black mastic</b>	<b>2% Chrysotile</b>	
82336	A-18	A-18-1	<b>Pipe Insulation/ tan layered insulation</b>	<b>50% Chrysotile</b>	
82337	A-19	A-19-2	<b>black and tan mastic</b>	<b>2% Chrysotile</b>	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

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or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Gary Nooner  
**Environmental Protection Associates**  
#9 Remington Cove  
Little Rock, AR 72204  
Phone # 501-562-3818  
Fax #

**Customer Project:** Annex Building, Brinkley Public Schools  
**Turnaround Time:** 24 Hours  
**CA Labs Project #:** CAL24107706AS  
**Date:** 10/2/2024  
**Samples Rec'd:** 10/1/24 10:30AM  
**Date Of Sampling:** 9/29/2024  
**Purchase Order #:**

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82319	A-1		A-1-1	<b>Roofing/</b> black roofing shingle with gray gravel	y	<b>None Detected</b>	10% sy 10% fg	80% qu,bi
82319			A-1-2	black tar and black felt	n	<b>None Detected</b>	75% ce	25% qu,bi
82320	A-2		A-2-1	<b>Roofing/</b> black tar and black felt	n	<b>None Detected</b>	65% ce	35% qu,bi
82320			A-2-2	yellow foam with covering	n	<b>None Detected</b>	15% fg	85% gy,ma,ot
82320			A-2-3	white sheetrock	y	<b>None Detected</b>	3% ce	97% qu,gy
82321	A-3		A-3-1	<b>Soffit/</b> gray transite	y	<b>21% Chrysotile</b>		79% qu,ca
82322	A-4		A-4-1	<b>Window Caulk/</b> black sealant	y	<b>2% Chrysotile</b>		98% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

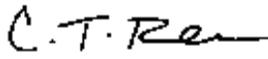
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
Robert Olivarez  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

  
Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

**Customer Info:** Attn: Gary Nooner  
**Environmental Protection Associates**  
#9 Remington Cove  
Little Rock, AR 72204  
Phone # 501-562-3818  
Fax #

**Customer Project:** Annex Building, Brinkley Public Schools  
**Turnaround Time:** 24 Hours  
**CA Labs Project #:** CAL24107706AS  
**Date:** 10/2/2024  
**Samples Rec'd:** 10/1/24 10:30AM  
**Date Of Sampling:** 9/29/2024  
**Purchase Order #:**

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82323	A-5	10	A-5-1	<b>Window Putty/ tan surfaced tan caulking</b>	n	<b>None Detected</b>		100% qu,bi,ca
82324	A-6		A-6-1	<b>Window Caulk/ brown surfaced gray caulking</b>	n	<b>3% Chrysotile</b>		97% qu,bi,ca
82325	A-7		A-7-1	<b>Floor Tile and Mastic/ tan floor tile</b>	y	<b>None Detected</b>		100% qu,ca
82325			A-7-2	<b>black and tan mastic</b>	n	<b>2% Chrysotile</b>		98% gy,bi
82326	A-8		A-8-1	<b>No Drip Tape/ black sealant with paper</b>	n	<b>None Detected</b>	15% ce	85% qu,bi
82327	A-9		A-9-1	<b>Lay-in Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi
82327			A-9-2	<b>tan ceiling tile</b>	y	<b>None Detected</b>	40% ce 30% fg	30% qu,pe

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

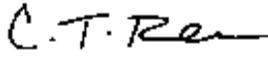
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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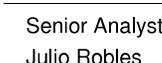
ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
Robert Olivarez  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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3. Actinolite in association with Vermiculite
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5. Not enough sample to analyze

  
Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b>	<b>Attn:</b> Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Annex Building, Brinkley Public Schools	CAL24107706AS
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b>	<b>Date:</b> 10/2/2024
		24 Hours	<b>Samples Rec'd:</b> 10/1/24 10:30AM
<b>Phone #</b>	501-562-3818	<b>Date Of Sampling:</b>	9/29/2024
<b>Fax #</b>		<b>Purchase Order #:</b>	

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82328	A-10		1	A-10- Lay-in Ceiling Tile/ white surfacing	y	None Detected		100% qu,bi
82328			2	A-10- tan ceiling tile	y	None Detected	40% ce 30% fg	30% qu,pe
82329	A-11		1	A-11- Lay-in Ceiling Tile/ white surfacing	y	None Detected		100% qu,bi
82329			2	A-11- tan ceiling tile	y	None Detected	40% ce 30% fg	30% qu,pe
82330	A-12		1	A-12- Ceramic Tile and Grout/ tan ceramic tile	y	None Detected		100% qu,ot
82330			2	A-12- tan grouting	y	None Detected		100% qu,ca
82330			3	A-12- tan mortar	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

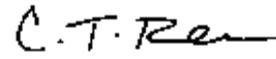
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gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
Robert Olivarez  
Analyst

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Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b>	<b>Attn:</b> Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Annex Building, Brinkley Public Schools	CAL24107706AS
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b>	<b>Date:</b> 10/2/2024
		24 Hours	<b>Samples Rec'd:</b> 10/1/24 10:30AM
<b>Phone #</b>	501-562-3818	<b>Date Of Sampling:</b>	9/29/2024
<b>Fax #</b>		<b>Purchase Order #:</b>	

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82331	A-13		1	A-13- <b>Floor Tile and Mastic/ tan floor tile</b>	y	<b>None Detected</b>		100% qu,ca
82331			2	A-13- <b>black and tan mastic</b>	n	<b>2% Chrysotile</b>		98% gy,bi
82332	A-14		1	A-14- <b>Sheetrock and Joint Compound/ off-white surfaced white compound</b>	n	<b>2% Chrysotile</b>		98% qu,bi,ca
82332			2	A-14- <b>white drywall with brown paper</b>	n	<b>None Detected</b>	24% ce	76% qu,gy
82332			3	A-14- <b>composite of layers 1 and 2</b>	n	<b>&lt;1% Chrysotile</b>	12% ce	88% qu,gy,ca
82333	A-15		1	A-15- <b>Floor Tile and Mastic/ tan floor tile</b>	y	<b>None Detected</b>		100% qu,ca
82333			2	A-15- <b>black and tan mastic</b>	n	<b>2% Chrysotile</b>		98% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

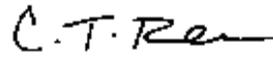
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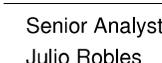
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Tanner Rasmussen

  
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Julio Robles

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b>	<b>Attn:</b> Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Annex Building, Brinkley Public Schools	CAL24107706AS
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b>	<b>Date:</b> 10/2/2024
		24 Hours	<b>Samples Rec'd:</b> 10/1/24 10:30AM
<b>Phone #</b>	501-562-3818	<b>Date Of Sampling:</b>	9/29/2024
<b>Fax #</b>		<b>Purchase Order #:</b>	

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82334	A-16		1	A-16- <b>Floor Tile and Mastic/ tan floor tile</b>	y	<b>None Detected</b>		100% qu,ca
82334			2	A-16- <b>tan mastic</b>	y	<b>None Detected</b>		100% gy,bi
82335	A-17		1	A-17- <b>Floor Tile and Mastic/ tan floor tile</b>	y	<b>2% Chrysotile</b>		98% qu,ca
82335			2	A-17- <b>black mastic</b>	y	<b>2% Chrysotile</b>		98% gy,bi
82336	A-18		1	A-18- <b>Pipe Insulation/ tan layered insulation</b>	y	<b>50% Chrysotile</b>		50% qu,ca
82337	A-19		1	A-19- <b>Floor Tile and Mastic/ off-white floor tile</b>	y	<b>None Detected</b>		100% qu,ca
82337			2	A-19- <b>black and tan mastic</b>	n	<b>2% Chrysotile</b>		98% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

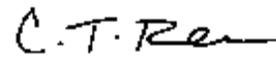
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

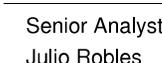
ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
Robert Olivarez  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

  
Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b>	<b>Attn:</b> Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Annex Building, Brinkley Public Schools	CAL24107706AS
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b>	<b>Date:</b> 10/2/2024
		24 Hours	<b>Samples Rec'd:</b> 10/1/24 10:30AM
<b>Phone #</b>	501-562-3818		<b>Date Of Sampling:</b> 9/29/2024
<b>Fax #</b>			<b>Purchase Order #:</b>

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82338	A-20		1	A-20- <b>Floor Tile and Mastic/ off-white floor tile</b>	y	<b>None Detected</b>		100% qu,ca
82338			2	A-20- <b>tan mastic</b>	y	<b>None Detected</b>		100% gy,bi
82339	A-21		1	A-21- <b>Floor Tile and Mastic/ off-white floor tile</b>	y	<b>None Detected</b>		100% qu,ca
82339			2	A-21- <b>black mastic</b>	y	<b>None Detected</b>		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

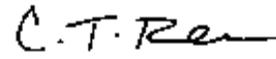
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Robert Olivarez  
Analyst

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STATE OF ARKANSAS DEPARTMENT OF ENERGY AND ENVIRONMENT

*Division of Environmental Quality*

OFFICE OF AIR QUALITY, ASBESTOS PROGRAM

**GARY NOONER**

*having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Rule 21 pursuant to A.C.A. § 20-27-1001, et seq., within the State of Arkansas is hereby certified to perform activities related to asbestos containing material in the following discipline(s)*

Discipline	Issue Date	Effective Date	Expiration Date
Air Monitor	12/05/2023	12/12/2023	12/31/2024
Contractor Supervisor	12/05/2023	12/12/2023	12/31/2024
Inspector	12/04/2023	12/12/2023	12/31/2024
Project Designer	12/06/2023	12/12/2023	12/31/2024



Certification Number: 005065

Handwritten signature of Caleb J. Osborne in black ink.

**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

STATE OF ARKANSAS DEPARTMENT OF ENERGY AND ENVIRONMENT

*Division of Environmental Quality*

OFFICE OF AIR QUALITY, ASBESTOS PROGRAM  
ENVIRONMENTAL PROTECTION ASSOCIATES (EPA)

*having qualified as required by law in accordance with the rules adopted by the  
Arkansas Pollution Control and Ecology Commission's Rule 21 pursuant to A.C.A. 20-27-1001, et seq.,  
relative to performing asbestos related work within the State of Arkansas is licensed as an*

**Asbestos Abatement Contractor**

**License Number: 000020**



**Issue Date: 11/30/2023**

**Expiration Date: 12/1/2024**

**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

*State of Arkansas*  
**Commercial Contractors Licensing Board**

ENVIRONMENTAL PROTECTION ASSOCIATES OF RUSSELLVILLE, INC.  
9 REMINGTON COVE  
LITTLE ROCK, AR 72204

ENVIRONMENTAL PROTECTION ASSOCIATES OF RUSSELLVILLE, INC.

**This is to Certify That**

is duly licensed under the provisions of Ark. Code Ann. § 17-25-101 et. seq. as amended and is entitled to practice Contracting in the State of Arkansas within the following classifications/specialties:

**BUILDING**  
- (COMMERCIAL & RESIDENTIAL)  
**SPECIALTY**  
Asbestos  
Environmental General

**This contractor has an unlimited suggested bid limit.**

from May 17, 2024 until April 30, 2025 when this Certificate expires.

*Witness our hands of the Board, dated at North Little Rock, Arkansas:*



*[Handwritten Signature]*

**CHAIRMAN**

*[Handwritten Signature]*

**SECRETARY**

May 17, 2024 - dsa



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/3/2024

**THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.**

**IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).**

<b>PRODUCER</b> Sterling Seacrest Pritchard, Inc. 4601 East McCain Blvd Suite B North Little Rock AR 72117	<b>CONTACT NAME:</b> PHONE (A/C, No, Ext): 501-588-0857		<b>FAX (A/C, No):</b>
	<b>E-MAIL ADDRESS:</b>		
<b>INSURED</b> Environmental Protection Associates of Russellville, Inc. 9 Remington Cove Little Rock AR 72204	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	<b>INSURER A:</b> Arch Specialty Insurance Company		21199
	<b>INSURER B:</b> Lafayette Insurance		18295
	<b>INSURER C:</b> Berkley Casualty Company		15911
	<b>INSURER D:</b>		
	<b>INSURER E:</b>		

ENVIPRO-02

**COVERAGES**

CERTIFICATE NUMBER: 626015020

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Blkt Contractual <input checked="" type="checkbox"/> XCU Included GENL AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y Y	12EMP2232804	12/31/2023	12/31/2024	EACH OCCURRENCE	\$ 1,000,000
						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
						MED EXP (Anyone person)	\$ 5,000
						PERSONAL & ADV INJURY	\$ 1,000,000
						GENERAL AGGREGATE	\$ 2,000,000
						PRODUCTS - COMP/OPAGG	\$ 2,000,000
							\$
B	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY	Y Y	60521561	12/31/2023	12/31/2024	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
						BODILY INJURY (Per person)	\$
						BODILY INJURY (Per accident)	\$
						PROPERTY DAMAGE (Per accident)	\$
							\$
A	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ n	Y Y	12EMX2232904	12/31/2023	12/31/2024	EACH OCCURRENCE	\$ 5,000,000
						AGGREGATE	\$ 5,000,000
							\$
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N/A	AMWC408701	12/31/2023	12/31/2024	<input checked="" type="checkbox"/> PER STATUTE	OTH-ER
						E L. EACH ACCIDENT	\$ 1,000,000
						E L. DISEASE - EA EMPLOYEE	\$ 1,000,000
						E L. DISEASE - POLICY LIMIT	\$ 1,000,000
A	Pollution Incl Mold Professional Liability		12EMP2232804	12/31/2023	12/31/2024	Limit Per Incident	1,000,000
						Aggregate	2,000,000

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**

Reference Number: 200189892.

The following applies when required in a written contract or agreement: Certificate holder and owner are included as additional insureds on a primary and non-contributory basis with respect to General Liability (including completed operations), Auto Liability, Professional Liability, and Umbrella. Waiver of subrogation is provided on General Liability, Auto Liability, Umbrella, Professional Liability, and Workers Compensation.

**CERTIFICATE HOLDER****CANCELLATION**

International Paper Company, its subsidiaries and affiliated Companies  
 PO Box 100085 - IP  
 Duluth GA 30096

**SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.**

AUTHORIZED REPRESENTATIVE

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#9 Remington Cove  
Little Rock, Arkansas 72204  
Phone: 501-562-3818  
Fax: 501-562-5701  
Toll Free: 1-800-530-7706

# Asbestos Sampling

**To:** Brad Chilcote, AIA, LEED AP, ALP  
WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**From:** Gary Nooner

**Email:** [bradc@wddarchitects.com](mailto:bradc@wddarchitects.com)

**Fax:**

**Date:** October 3, 2024

---

**Phone:** 501-376-6681

**Cell:** 501-425-3940

**Pages:** 12 Including cover sheet

**Re:** Band Building  
Brinkley Public Schools

**cc:**

---

**Comments**



#9 Remington Cove  
Little Rock, Arkansas 72204  
501-562-3818  
Fax 501-562-5701

---

October 3, 2024

WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**RE: Asbestos Sampling**

Band Building  
Brinkley Public Schools  
200 Tigers Drive  
Brinkley, AR 72021

**Mr. Brad Chilcote, AIA, LEED AP, AL**

On September 29, 2024 at your request I collected samples from the above referenced location to determine if asbestos was present. Six (6) samples were collected for laboratory analysis.

Laboratory analysis of these samples have determined the following:

**No Asbestos Detected**

Federal and state regulations with the exception of OSHA, determine a material to be asbestos containing if it contains 1% or more asbestos. OSHA states that any amount is an asbestos material.

Therefore the following materials must be removed by a licensed asbestos contractor if disturbed by renovation or demolition.

**None**

For further clarification of the Arkansas asbestos regulation 21. You may contact the Arkansas Department of Environmental Quality (ADEQ) Phone - 501-682-0718 or visit their website at - [www.adeg.state.ar.us](http://www.adeg.state.ar.us)

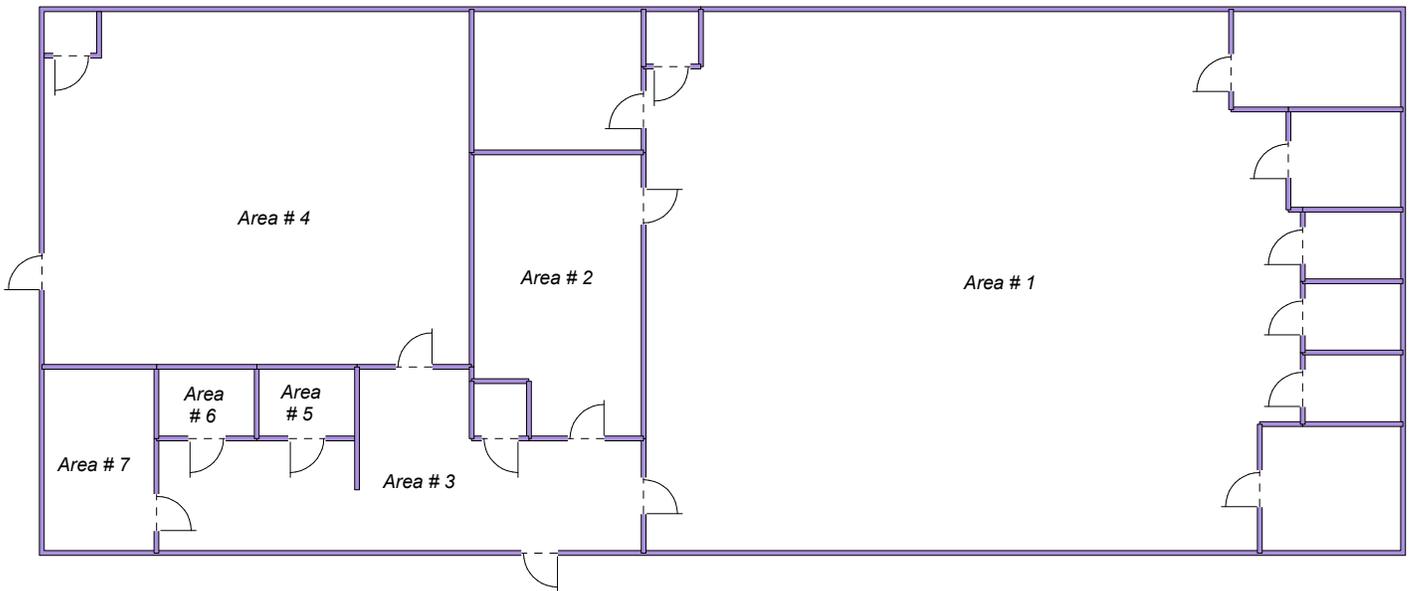
I have attached my chain of custody and laboratory findings. Please contact me with any Questions you may have.

Sincerely,

A handwritten signature in blue ink that reads "Gary Nooner".

Gary Nooner  
Inspector  
License No. 005065

Enclosures

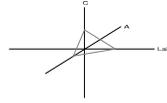


*Band Building*  
*No Asbestos Detected*



**CA Labs**  
Dedicated to Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Environmental Protection Associates**

#9 Remington Cove  
Little Rock, AR 72204

**Attn:** Gary Nooner

**Customer Project:** Band Building, Brinkley Public Schools  
**Reference #:** CAL24107704AS **Date:** 10/02/24

#### **Analysis and Method**

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235*  
**AIHA LAP, LLC Laboratory #102929**

Overview of Project Sample Material Containing Asbestos

Customer Project:		Band Building, Brinkley Public Schools		CA Labs Project #: CAL24107704AS	
Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

**No Asbestos Detected.**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested as received. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

## Polarized Light Asbestiform Materials Characterization

<b>Customer Info:</b>	Attn: Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Band Building, Brinkley Public Schools	CA L24107704AS
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b>	<b>Date:</b> 10/2/2024
		24 Hours	<b>Samples Rec'd:</b> 10/1/24 10:30AM
<b>Phone #</b>	501-562-3818	<b>Date Of Sampling:</b>	9/29/2024
<b>Fax #</b>		<b>Purchase Order #:</b>	

Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82301	B-01		1	<b>B-01- Roofing/ silver surfaced black tar and black felt layers</b>	n	<b>None Detected</b>	35% ce	65% qu,bi
82301			2	<b>B-01- brown insulation</b>	y	<b>None Detected</b>	100% ce	
82301			3	<b>B-01- white sealant</b>	y	<b>None Detected</b>		100% qu,gy,bi
82301			4	<b>B-01- silver surfaced yellow foam</b>	n	<b>None Detected</b>		100% qu,bi,ot
82302	B-02		1	<b>B-02- Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi
82302			2	<b>B-02- tan ceiling tile</b>	y	<b>None Detected</b>	40% ce 30% fg	30% qu,pe
82303	B-03		1	<b>B-03- Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

### AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

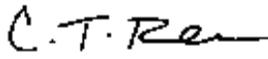
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
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Approved Signatories:

  
Robert Olivarez  
Analyst

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Tanner Rasmussen

Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b>	<b>Attn:</b> Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Band Building, Brinkley Public Schools	CA L24107704AS
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b> 24 Hours	<b>Date:</b> 10/2/2024
Phone #	501-562-3818		<b>Samples Rec'd:</b> 10/1/24 10:30AM
Fax #			<b>Date Of Sampling:</b> 9/29/2024
			<b>Purchase Order #:</b>

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82303			B-03-2	tan ceiling tile	y	None Detected	40% ce 30% fg	30% qu,pe
82304	B-04		B-04-1	Floor Tile and Mastic/ gray floor tile	y	None Detected		100% qu,ca
82304			B-04-2	black mastic	y	None Detected	2% sy	98% gy,bi
82305	B-05		B-05-1	Floor Tile and Mastic/ gray floor tile	y	None Detected		100% qu,ca
82305			B-05-2	black mastic	y	None Detected	2% sy	98% gy,bi
82306	B-06		B-06-1	Window Caulking/ gray sealant	y	None Detected		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

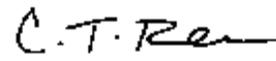
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

  
Robert Olivarez  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

  
Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

STATE OF ARKANSAS DEPARTMENT OF ENERGY AND ENVIRONMENT

*Division of Environmental Quality*

OFFICE OF AIR QUALITY, ASBESTOS PROGRAM

**GARY NOONER**

*having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Rule 21 pursuant to A.C.A. § 20-27-1001, et seq., within the State of Arkansas is hereby certified to perform activities related to asbestos containing material in the following discipline(s)*

<b>Discipline</b>	<b>Issue Date</b>	<b>Effective Date</b>	<b>Expiration Date</b>
Air Monitor	12/05/2023	12/12/2023	12/31/2024
Contractor Supervisor	12/05/2023	12/12/2023	12/31/2024
Inspector	12/04/2023	12/12/2023	12/31/2024
Project Designer	12/06/2023	12/12/2023	12/31/2024



Certification Number: 005065

Handwritten signature of Caleb J. Osborne in black ink.

**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

STATE OF ARKANSAS DEPARTMENT OF ENERGY AND ENVIRONMENT

*Division of Environmental Quality*

OFFICE OF AIR QUALITY, ASBESTOS PROGRAM  
ENVIRONMENTAL PROTECTION ASSOCIATES (EPA)

*having qualified as required by law in accordance with the rules adopted by the  
Arkansas Pollution Control and Ecology Commission's Rule 21 pursuant to A.C.A. 20-27-1001, et seq.,  
relative to performing asbestos related work within the State of Arkansas is licensed as an*

**Asbestos Abatement Contractor**

**License Number: 000020**



**Issue Date: 11/30/2023**

**Expiration Date: 12/1/2024**

A handwritten signature in black ink, appearing to read 'Caleb J. Osborne'.

**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

*State of Arkansas*  
**Commercial Contractors Licensing Board**

ENVIRONMENTAL PROTECTION ASSOCIATES OF RUSSELLVILLE, INC.  
9 REMINGTON COVE  
LITTLE ROCK, AR 72204

ENVIRONMENTAL PROTECTION ASSOCIATES OF RUSSELLVILLE, INC.

**This is to Certify That**

is duly licensed under the provisions of Ark. Code Ann. § 17-25-101 et. seq. as amended and is entitled to practice Contracting in the State of Arkansas within the following classifications/specialties:

**BUILDING**  
- (COMMERCIAL & RESIDENTIAL)  
**SPECIALTY**  
Asbestos  
Environmental General

**This contractor has an unlimited suggested bid limit.**

from May 17, 2024 until April 30, 2025 when this Certificate expires.

*Witness our hands of the Board, dated at North Little Rock, Arkansas:*



*[Handwritten Signature]*

**CHAIRMAN**

*[Handwritten Signature]*

**SECRETARY**

May 17, 2024 - dsa





#9 Remington Cove  
Little Rock, Arkansas 72204  
Phone: 501-562-3818  
Fax: 501-562-5701  
Toll Free: 1-800-530-7706

# Asbestos Sampling

**To:** Brad Chilcote, AIA, LEED AP, ALP  
WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**From:** Gary Nooner

**Email:** [bradc@wddarchitects.com](mailto:bradc@wddarchitects.com)

**Fax:**

**Date:** October 3, 2024

---

**Phone:** 501-376-6681

**Cell:** 501-425-3940

**Pages:** 14 Including cover sheet

**Re:** Newer Gym  
Brinkley Public Schools

**cc:**

---

**Comments**



#9 Remington Cove  
Little Rock, Arkansas 72204  
501-562-3818  
Fax 501-562-5701

October 3, 2024

WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**RE: Asbestos Sampling**

Newer Gym  
Brinkley Public Schools  
200 Tigers Drive  
Brinkley, AR 72021

**Mr. Brad Chilcote, AIA, LEED AP, AL**

On September 29, 2024 at your request I collected samples from the above referenced location to determine if asbestos was present. Twelve (12) samples were collected for laboratory analysis. Two (2) materials were Assumed

Laboratory analysis of these samples have determined the following:

**Asbestos Detected in the following Materials**

	<b>Description</b>	<b>Location</b>	
<b>Sample # 06</b>	Floor Tile and Mastic	See Drawing Areas 2,3,6, & 12	Approx. 1,725 Sft.
<b>Sample # 07</b>	Floor Tile and Mastic	See Drawing Areas 2,3,6, & 12	See Above
<b>Sample # 11</b>	Window Putty	Windows	Approx. 52 each
<b>Assumed</b>	Transite Panels	Behind plywood Tiger painting	Approx. 260 Sft.
<b>Assumed</b>	Vibration Joints	HVAC Units	Approx. 4 Each

Federal and state regulations with the exception of OSHA, determine a material to be asbestos containing if it contains 1% or more asbestos. OSHA states that any amount is an asbestos material.

Therefore the following materials must be removed by a licensed asbestos contractor if disturbed by renovation or demolition.

**Floor tile and mastic, Window Putty, Transite Panels, and Vibration Joints**

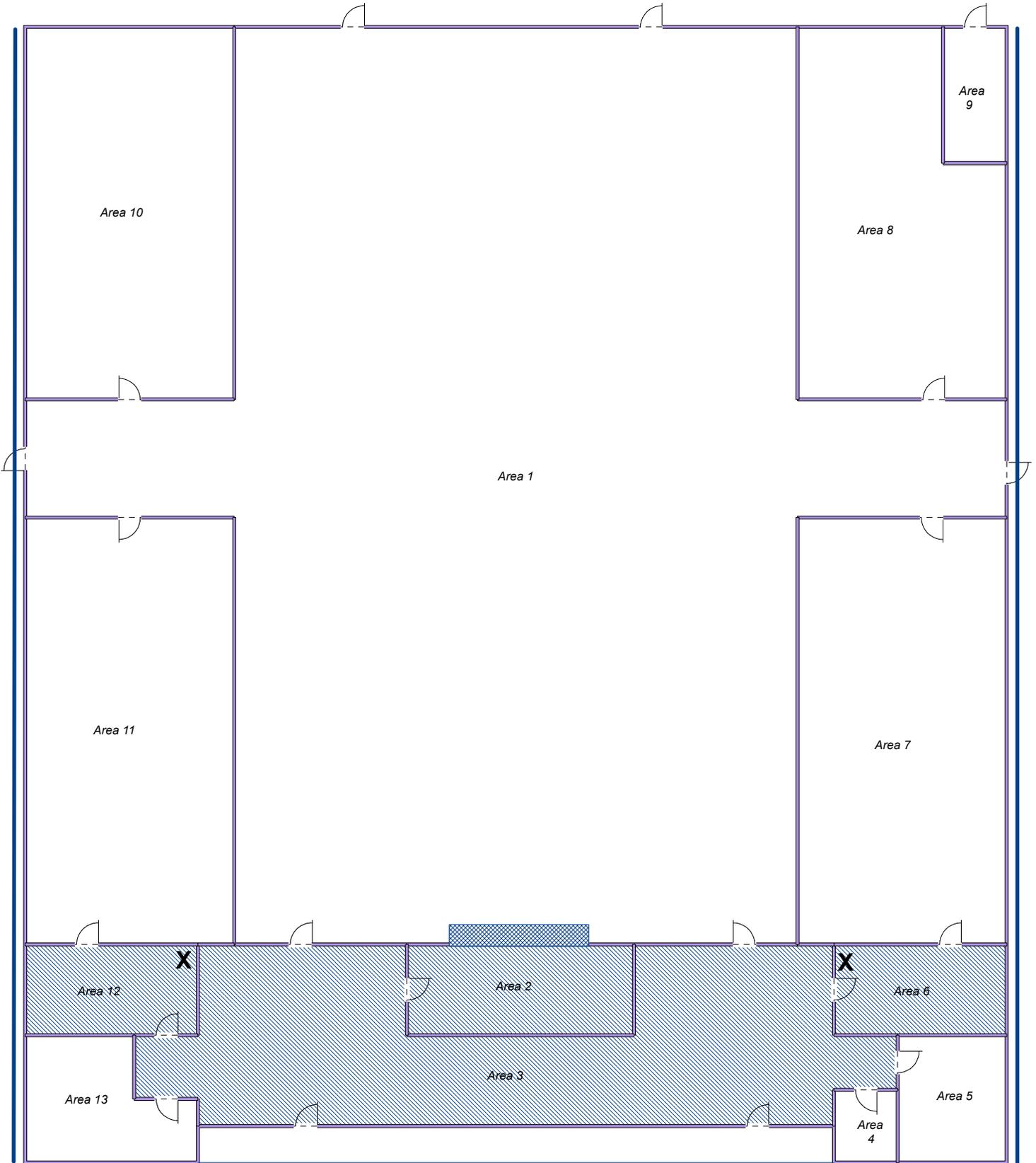
For further clarification of the Arkansas asbestos regulation 21. You may contact the Arkansas Department of Environmental Quality (ADEQ) Phone - 501-682-0718 or visit their website at - [www.adeq.state.ar.us](http://www.adeq.state.ar.us)

I have attached my chain of custody and laboratory findings. Please contact me with any Questions you may have.

Sincerely,

Gary Nooner  
Inspector  
License No. 005065

Enclosures



Newer Gym



Asbestos Containing Floor Tile and Mastic



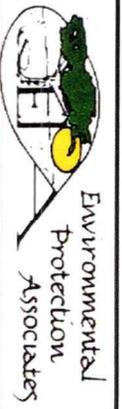
Assumed Asbestos Containing Transite Panels



Asbestos Containing Window Putty



Assumed HVAC Vibration Joints. Check all HVAC Units.



# Asbestos Sampling Chain of Custody Field Data Sheet

#9 Remington Cove  
Little Rock, Arkansas 72204  
501-562-3818  
Fax 501-562-5701

<b>Client</b> Brad Chilcote, AIA, LEED AP, ALP WDD Architects 5050 Northshore Lane North Little Rock, AR 72118	<b>Property</b> Newer Gym Brinkley Public Schools 200 Tigers Drive Brinkley, AR 72021
<b>Inspector</b> Gary Noonan	<b>Building ID</b> Newer Gym
<b>Date</b> 9/29/2024	<b>Turnaround Time</b> Rush (24 hour)

SAMPLE ID	Sample Description	Sample Location	A	C	Class (S,T,M)	Friability (F,NF)	Condition (G,D,SD)	Damage (%)	POT DAM (L,M,H)	Quantity
01	Roofing	Lower Roof	X		M	NF	G	10%	H	+/- 2,500 sft
02	Flashing	Lower Roof (around exhaust fans)	X		M	NF	G	10%	H	+/- 75 lft
03	Roofing	Upper Roof	X		M	NF	G	10%	H	+/- 10,910 sft
04	Lay in Ceiling Tile	See Drawing Areas 2 & 3	X		M	F	G	10%	H	+/- 1,380 sft
05	12" Splined Ceiling Tile	See Drawing Areas 4,5,6,12, & 13	X		M	NF	G	10%	H	+/- 900 sft
06	Floor Tile and Mastic	See Drawing Areas 2,3,6, & 12	X		M	NF	G	10%	H	+/- 1,725 sft
07	Floor Tile and Mastic	See Drawing Areas 2,3,6, & 12	X		M	NF	G	10%	H	See Above
08	Ceramic Tile and Grout	See Drawing Areas 4,5, & 13	X		M	NF	G	10%	H	+/- 550 sft
09	Ceramic Tile and Grout	See Drawing Areas 7,8,10, & 11	X		M	NF	G	10%	H	+/- 4,190 sft
10	Sheetrock & Joint Compound	See Drawing Area 2	X		M	NF	G	10%	H	+/- 860 sft
11	Window Putty	Windows	X		M	NF	G	10%	H	52 Each
12	Window Caulking	Exterior Windows	X		M	NF	G	10%	H	60 Each
Assumed	Transite Panels	Behind Plywood Tiger Painting			M	NF	G	10%	H	+/- 260 sft
Assumed	Vibration Joint	HVAC Units			M	NF	G	10%	H	4 each

HA - Homogeneous Area    A - Analyze    C - Catalogue    ♦ - Analyze only if the previous sample was found to be negative.

Class: S-surfacing, T-thermal, M-miscellaneous. Friability: F-fragile, NF-non-fragile. Condition: G-good, D-damaged, SD-severely damaged, POT DAM (Potential Damage): L-low, M-moderate, H-high

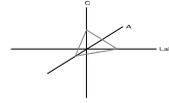
Relinquished By <i>[Signature]</i> Time 07:00 Date 9-30-24	Relinquished By _____ Time _____ Date _____
Received By _____ Time _____ Date _____	Received By _____ Time _____ Date _____

**Composite Sample all positive Shetrock and Joint Compound Samples**

OCT 01 2024 10:30 AM *[Signature]*

**CA Labs**  
Dedicated to Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Environmental Protection Associates**

#9 Remington Cove  
Little Rock, AR 72204

**Attn:** Gary Nooner

**Customer Project:** Newer Gym, Brinkley Public Schools  
**Reference #:** CAL24107705AG **Date:** 10/02/24

#### **Analysis and Method**

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235*  
**AIHA LAP, LLC Laboratory #102929**

Overview of Project Sample Material Containing Asbestos

<b>Customer Project:</b>		Newer Gym, Brinkley Public Schools			<b>CA Labs Project #:</b> CAL24107705AG	
Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
82312	06	6-2	black mastic	2% Chrysotile	<b>black mastic</b> <b>white surfaced white caulking</b>	
82313	07	7-2	black mastic	2% Chrysotile		
82317	11	11-1	<b>Window Putty/ white surfaced white caulking</b>	2% Chrysotile		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested as received. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

## Polarized Light Asbestiform Materials Characterization

<b>Customer Info:</b>	Attn: Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Newer Gym, Brinkley Public Schools	CAL24107705AG
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b>	<b>Date:</b> 10/2/2024
		24 hours	<b>Samples Rec'd:</b> 10/1/24 10:30AM
Phone #	501-562-3818		<b>Date Of Sampling:</b> 9/29/2024
Fax #			<b>Purchase Order #:</b>

Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82307	01		1-1	<b>Roofing/</b> various black tar and black felt layers	n	<b>None Detected</b>	20% ce	80% qu,bi
82307			1-2	tan insulation	y	<b>None Detected</b>	10% ce 10% fg	80% qu,ca,ma
82307			1-3	yellow foam insulation	y	<b>None Detected</b>		100% qu,ma
82308	02		2-1	<b>Flashing/</b> silver surfaced black tar	n	<b>None Detected</b>		100% qu,bi
82309	03		3-1	<b>Roofing/</b> black felt	y	<b>None Detected</b>	30% ce	70% qu,bi
82309			3-2	yellow foam insulation	y	<b>None Detected</b>		100% qu,ma
82309			3-3	tan insulation	y	<b>None Detected</b>	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

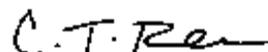
ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Justin Cox  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b>	<b>Attn:</b> Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Newer Gym, Brinkley Public Schools	CAL24107705AG
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b> 24 hours	<b>Date:</b> 10/2/2024
Phone #	501-562-3818		<b>Samples Rec'd:</b> 10/1/24 10:30AM
Fax #			<b>Date Of Sampling:</b> 9/29/2024
			<b>Purchase Order #:</b>

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82309			3-4	tan sheetrock	y	None Detected	2% ce	98% qu,gy
<b>Lay-in Ceiling Tile/ white</b>								
82310	04		4-1	surfacing	y	None Detected		100% qu,bi
82310			4-2	tan ceiling tile	y	None Detected	35% ce 30% fg	35% qu,ca
<b>12" Splined Ceiling Tile/ white</b>								
82311	05		5-1	surfacing	y	None Detected		100% qu,bi
82311			5-2	white ceiling tile	y	None Detected	20% ce 35% fg	45% qu,pe,ca
<b>Floor Tile and Mastic/ white</b>								
82312	06		6-1	floor tile	y	None Detected		100% qu,ca
82312			6-2	black mastic	y	2% Chrysotile		98% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

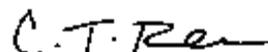
ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Justin Cox  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

## Polarized Light Asbestiform Materials Characterization

<b>Customer Info:</b>	Attn: Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Newer Gym, Brinkley Public Schools	CAL24107705AG
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b> 24 hours	<b>Date:</b> 10/2/2024
Phone #	501-562-3818		<b>Samples Rec'd:</b> 10/1/24 10:30AM
Fax #			<b>Date Of Sampling:</b> 9/29/2024
			<b>Purchase Order #:</b>

Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
<b>Floor Tile and Mastic/ white</b>								
82313	07		7-1	floor tile	y	<b>None Detected</b>		100% qu,ca
82313			7-2	black mastic	y	<b>2% Chrysotile</b>		98% gy,bi
<b>Ceramic Tile and Grout/ red</b>								
82314	08		8-1	ceramic tile	y	<b>None Detected</b>		100% qu,ma
82314			8-2	gray grouting	y	<b>None Detected</b>		100% qu,ca
<b>Ceramic Tile and Grout/ green ceramic tile</b>								
82315	09		9-1	green ceramic tile	y	<b>None Detected</b>		100% qu,ma
82315			9-2	white grouting	y	<b>None Detected</b>		100% qu,ca
<b>Sheetrock and Joint Compound/ orange surfaced</b>								
82316	10		10-1	white compound	n	<b>None Detected</b>		100% mi,qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

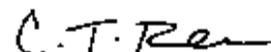
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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Approved Signatories:



Justin Cox  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
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Technical Manager  
Tanner Rasmussen

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Senior Analyst  
Julio Robles

## Polarized Light Asbestiform Materials Characterization

<b>Customer Info:</b>	Attn: Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Newer Gym, Brinkley Public Schools	CAL24107705AG
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b>	<b>Date:</b> 10/2/2024
		24 hours	<b>Samples Rec'd:</b> 10/1/24 10:30AM
<b>Phone #</b>	501-562-3818	<b>Date Of Sampling:</b>	9/29/2024
<b>Fax #</b>		<b>Purchase Order #:</b>	

Laboratory Sample ID	Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82316			10-2	white compound (beneath tape)	y	<b>None Detected</b>		100% mi,qu,ca
82316			10-3	white surfaced gray fibrous paneling	n	<b>None Detected</b>	65% ce	35% qu,ca,ma
82317	11		11-1	<b>Window Putty/</b> white surfaced white caulking	n	<b>2% Chrysotile</b>		98% qu,bi,ca
82318	12		12-1	<b>Window Caulking/</b> gray sealant	y	<b>None Detected</b>		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

**AIHA LAP, LLC Laboratory #102929**

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

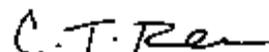
ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Justin Cox  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

STATE OF ARKANSAS DEPARTMENT OF ENERGY AND ENVIRONMENT

*Division of Environmental Quality*

OFFICE OF AIR QUALITY, ASBESTOS PROGRAM

**GARY NOONER**

*having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Rule 21 pursuant to A.C.A. § 20-27-1001, et seq., within the State of Arkansas is hereby certified to perform activities related to asbestos containing material in the following discipline(s)*

Discipline	Issue Date	Effective Date	Expiration Date
Air Monitor	12/05/2023	12/12/2023	12/31/2024
Contractor Supervisor	12/05/2023	12/12/2023	12/31/2024
Inspector	12/04/2023	12/12/2023	12/31/2024
Project Designer	12/06/2023	12/12/2023	12/31/2024



Certification Number: 005065

Handwritten signature of Caleb J. Osborne in black ink.

**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

STATE OF ARKANSAS DEPARTMENT OF ENERGY AND ENVIRONMENT

*Division of Environmental Quality*

OFFICE OF AIR QUALITY, ASBESTOS PROGRAM  
ENVIRONMENTAL PROTECTION ASSOCIATES (EPA)

*having qualified as required by law in accordance with the rules adopted by the  
Arkansas Pollution Control and Ecology Commission's Rule 21 pursuant to A.C.A. 20-27-1001, et seq.,  
relative to performing asbestos related work within the State of Arkansas is licensed as an*

**Asbestos Abatement Contractor**

**License Number: 000020**



**Issue Date: 11/30/2023**

**Expiration Date: 12/1/2024**

A handwritten signature in black ink, appearing to read 'Caleb J. Osborne'.

**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

*State of Arkansas*  
**Commercial Contractors Licensing Board**

ENVIRONMENTAL PROTECTION ASSOCIATES OF RUSSELLVILLE, INC.  
9 REMINGTON COVE  
LITTLE ROCK, AR 72204

ENVIRONMENTAL PROTECTION ASSOCIATES OF RUSSELLVILLE, INC.

**This is to Certify That**

is duly licensed under the provisions of Ark. Code Ann. § 17-25-101 et. seq. as amended and is entitled to practice Contracting in the State of Arkansas within the following classifications/specialties:

**BUILDING**  
- (COMMERCIAL & RESIDENTIAL)  
**SPECIALTY**  
Asbestos  
Environmental General

**This contractor has an unlimited suggested bid limit.**

from May 17, 2024 until April 30, 2025 when this Certificate expires.

*Witness our hands of the Board, dated at North Little Rock, Arkansas:*



*[Handwritten signature]*

CHAIRMAN

*[Handwritten signature]*

SECRETARY

May 17, 2024 - dsa





#9 Remington Cove  
Little Rock, Arkansas 72204  
Phone: 501-562-3818  
Fax: 501-562-5701  
Toll Free: 1-800-530-7706

# Asbestos Sampling

**To:** Brad Chilcote, AIA, LEED AP, ALP  
WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**From:** Gary Nooner

**Email:** [bradc@wddarchitects.com](mailto:bradc@wddarchitects.com)

**Fax:**

**Date:** October 3, 2024

---

**Phone:** 501-376-6681

**Cell:** 501-425-3940

**Pages:** 11 Including cover sheet

**Re:** Storage Building  
Brinkley Public Schools

**cc:**

---

**Comments**



#9 Remington Cove  
Little Rock, Arkansas 72204  
501-562-3818  
Fax 501-562-5701

---

WDD Architects  
5050 Northshore Lane  
North Little Rock, AR 72118

**RE: Asbestos Sampling**

Storage Building  
Brinkley Public Schools  
200 Tigers Drive  
Brinkley, AR 72021

**Mr. Brad Chilcote, AIA, LEED AP, AL**

On September 29, 2024 at your request I collected samples from the above referenced location to determine if asbestos was present. Five (5) samples were collected for laboratory analysis.

Laboratory analysis of these samples have determined the following:

**No Asbestos Detected**

Federal and state regulations with the exception of OSHA, determine a material to be asbestos containing if it contains 1% or more asbestos. OSHA states that any amount is an asbestos material.

Therefore the following materials must be removed by a licensed asbestos contractor if disturbed by renovation or demolition.

**None**

For further clarification of the Arkansas asbestos regulation 21. You may contact the Arkansas Department of Environmental Quality (ADEQ) Phone - 501-682-0718 or visit their website at - [www.adec.state.ar.us](http://www.adec.state.ar.us)

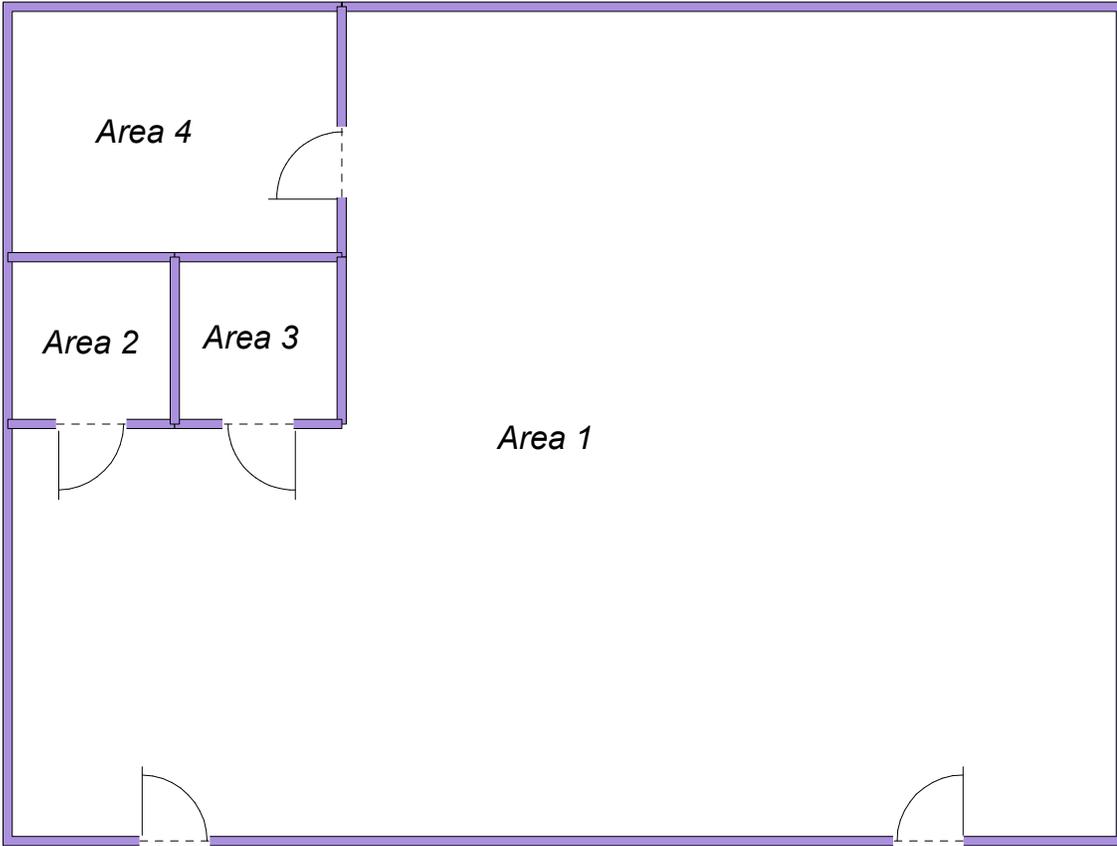
I have attached my chain of custody and laboratory findings. Please contact me with any Questions you may have.

Sincerely,

A handwritten signature in blue ink that reads "Gary Nooner".

Gary Nooner  
Inspector  
License No. 005065

Enclosures



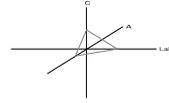
*Storage Building*

*No Asbestos Detected*



**CA Labs**  
Dedicated to Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



**CA Labs, L.L.C.**  
12232 Industriplex, Suite 32  
Baton Rouge, LA 70809  
Phone 225-751-5632  
Fax 225-751-5634

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Environmental Protection Associates**

#9 Remington Cove  
Little Rock, AR 72204

**Attn:** Gary Nooner

**Customer Project:** Storage Building, Brinkley Public Schools  
**Reference #:** CAL24107703AS **Date:** 10/02/24

#### **Analysis and Method**

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

#### **Discussion**

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

#### **Qualifications**

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

*Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235*  
**AIHA LAP, LLC Laboratory #102929**

Overview of Project Sample Material Containing Asbestos

Customer Project:		Storage Building, Brinkley Public Schools		CA Labs Project #: CAL24107703AS	
Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

**No Asbestos Detected.**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235  
**AIHA LAP, LLC Laboratory #102929**

**Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):**

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested as received. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

**Polarized Light Asbestiform Materials Characterization**

<b>Customer Info:</b>	<b>Attn:</b> Gary Nooner	<b>Customer Project:</b>	<b>CA Labs Project #:</b>
<b>Environmental Protection Associates</b>		Storage Building, Brinkley Public Schools	CAL24107703AS
#9 Remington Cove Little Rock, AR 72204		<b>Turnaround Time:</b> 24 Hours	<b>Date:</b> 10/2/2024
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			<b>Purchase Order #:</b>

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
82296	S-1		S-1-1	<b>Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi
82296			S-1-2	<b>tan ceiling tile</b>	y	<b>None Detected</b>	35% ce 35% fg	30% qu,ca
82297	S-2		S-2-1	<b>Ceiling Tile/ white surfacing</b>	y	<b>None Detected</b>		100% qu,bi
82297			S-2-2	<b>tan ceiling tile</b>	y	<b>None Detected</b>	35% ce 30% fg	35% qu,ca
82298	S-3		S-3-1	<b>Flooring/ tan linoleum</b>	y	<b>None Detected</b>	18% ce 2% fg	80% gy,ma
82299	S-4		S-4-1	<b>Flooring/ tan linoleum</b>	y	<b>None Detected</b>	17% ce 2% fg	81% gy,ma
82300	S-5		S-5-1	<b>Window Caulking/ white caulking</b>	y	<b>None Detected</b>		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

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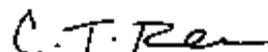
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Justin Cox  
Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
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Certification Number: 005065

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**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

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**Asbestos Abatement Contractor**

**License Number: 000020**



**Issue Date: 11/30/2023**  
**Expiration Date: 12/1/2024**

**Caleb J. Osborne**  
Division of Environmental Quality, Director  
Chief Administrator, Environment  
Arkansas Department of Energy & Environment

*State of Arkansas*  
**Commercial Contractors Licensing Board**

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- BUILDING
- (COMMERCIAL & RESIDENTIAL)
- SPECIALTY
- Asbestos
- Environmental General

**This contractor has an unlimited suggested bid limit.**

from May 17, 2024 until April 30, 2025 when this Certificate expires.

*Witness our hands of the Board, dated at North Little Rock, Arkansas:*



*[Handwritten signature]*

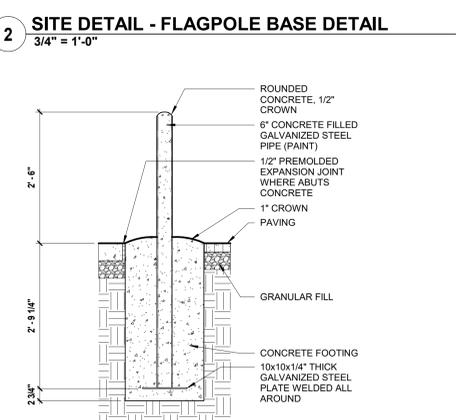
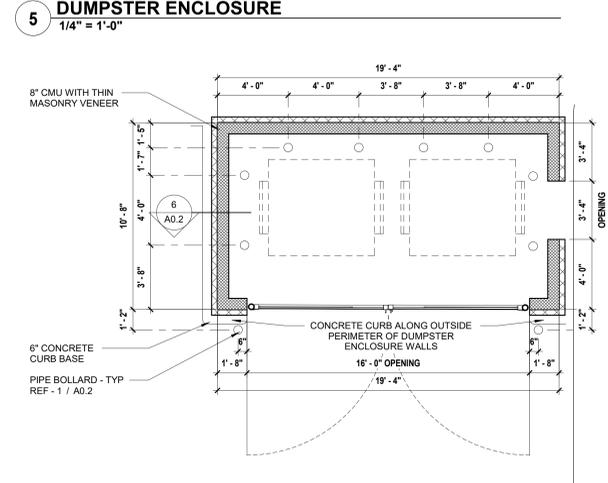
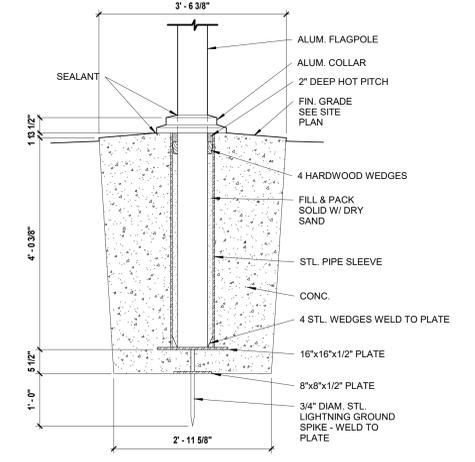
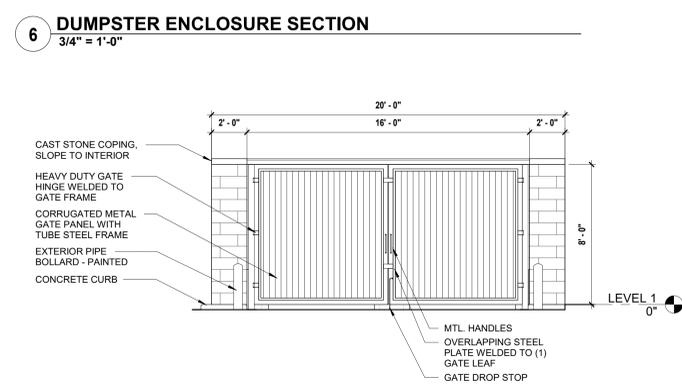
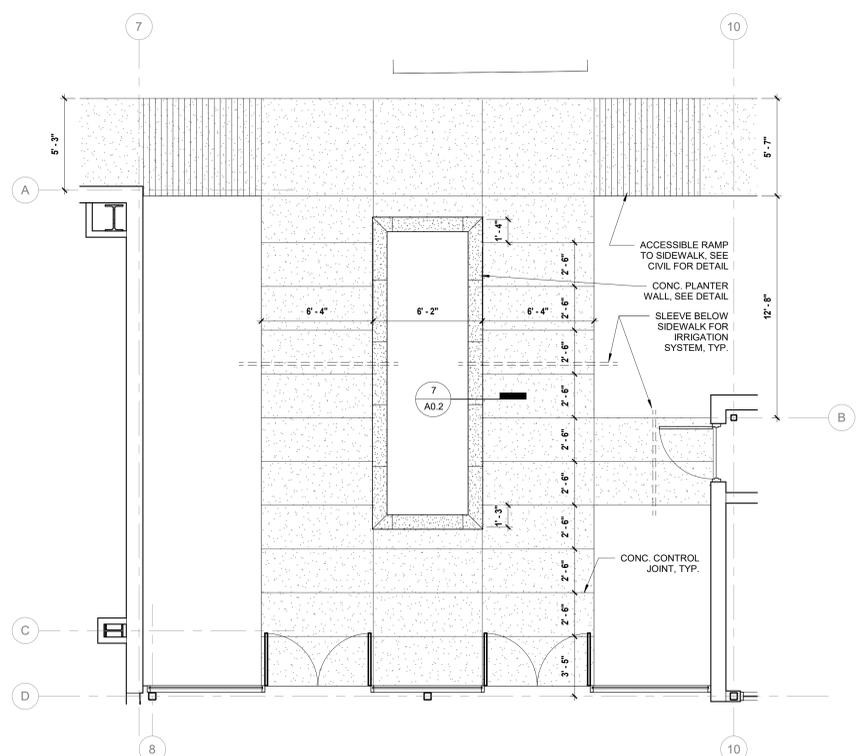
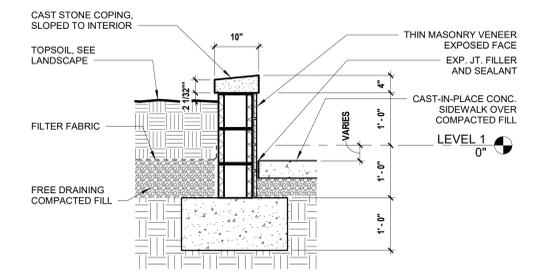
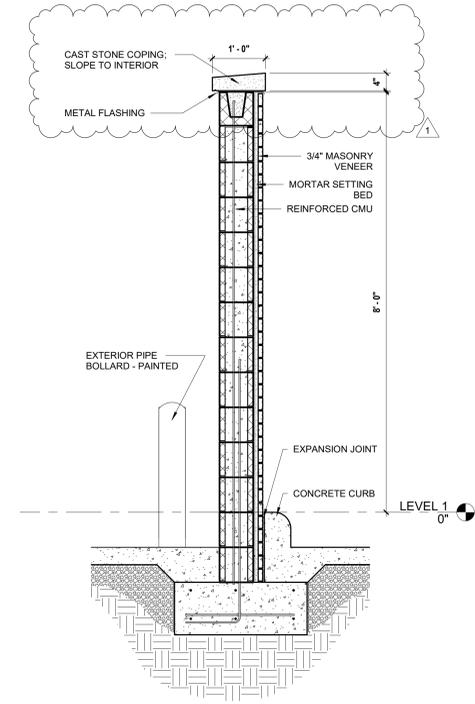
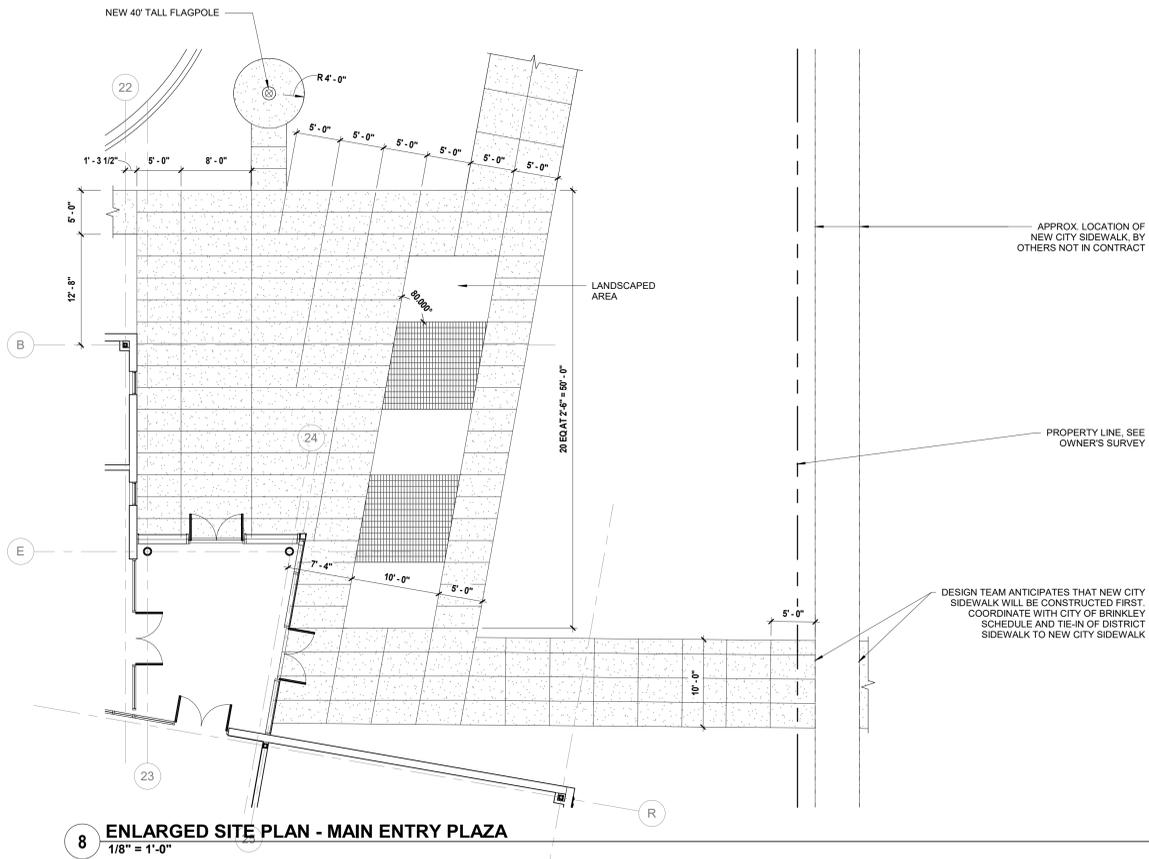
CHAIRMAN

*[Handwritten signature]*

SECRETARY

May 17, 2024 - dsa





20250120 10:57:11 PM AutodeskDWGPlotter High Speed Plotter 20250120 10:57:11 PM





NO.	DATE	DESCRIPTION
1	2025-01-20	ADDENDUM #4

23-069  
JOB. NO.  
2025 | 01 | 10  
DATE

PACKAGE NO. 3

ISSUE

**A1.3**

**PARTITION TAG LEGEND**

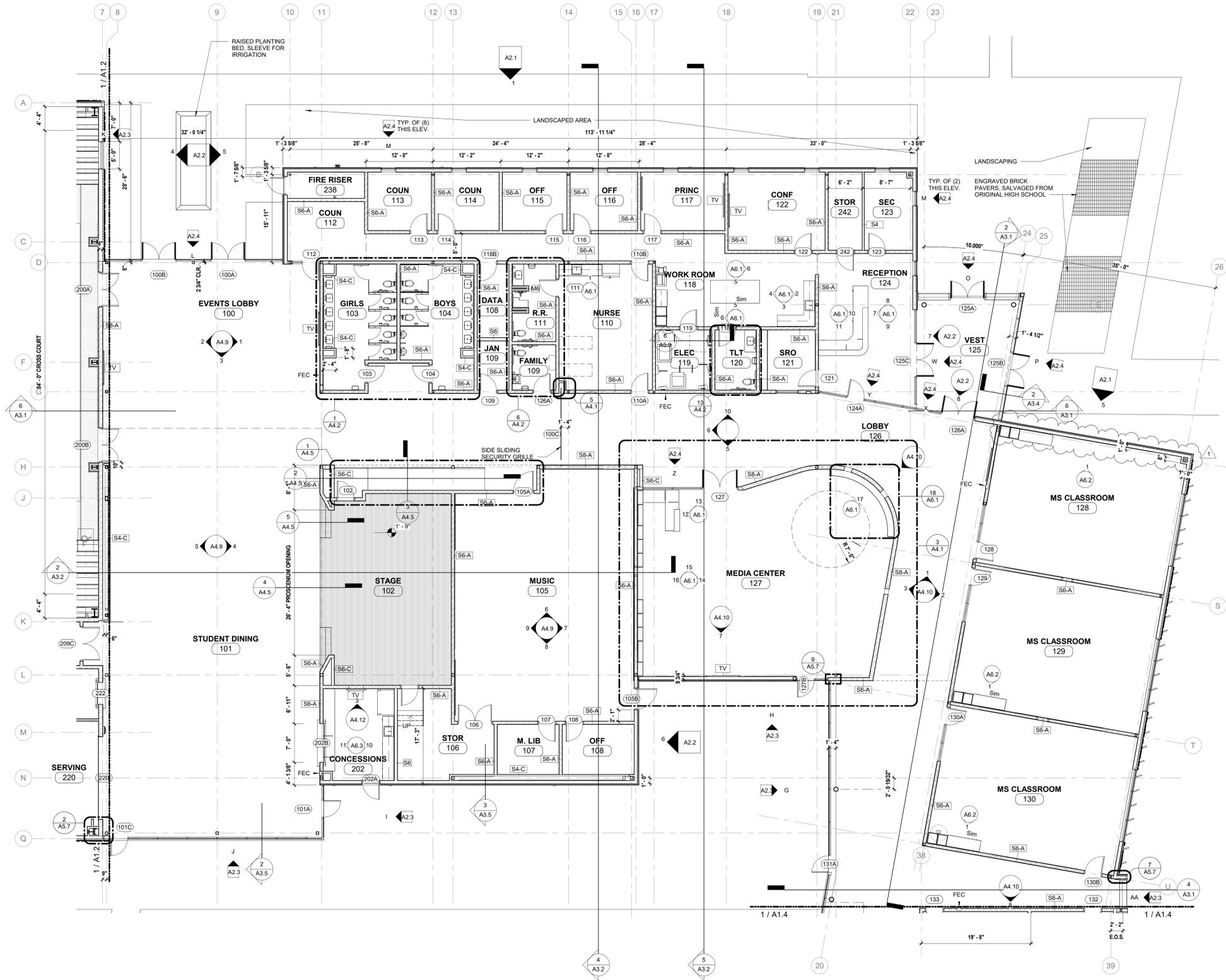
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S	2	2 1/2"		
M	4	3 5/8"	3 5/8"	F#
W	6	6"	5 5/8"	A
H	8	8"	7 5/8"	C
	10	10"	9 5/8"	L
	12	12"	11 5/8"	

**S4-F1**

**NOTE:** AT ALL WALL TILE LOCATIONS OVER METAL STUDS, PROVIDE TILE CEMENT BACKER BOARD - REFER TO ELEVATIONS AND FINISH SCHEDULE.  
**NOTE:** DIMENSIONS ARE TAKEN FROM CORE FACE OF WALL UNLESS NOTED "FINISH", "CLEAR", OR SIMILAR.

**ADDITIONAL PROPERTIES (SEE DETAILS):**  
FIRE RESISTANCE RATING (# HOURS)  
ACOUSTIC RATED ASSEMBLY  
CONCEALED CONSTRUCTION, FINISH ONLY  
ONE SIDE OF PARTITION ABOVE - REFER TO SECTIONS OR ELEVATIONS FOR HEIGHT

**NOTE:** SHEET UPDATED WITH ADDITIONAL PARTITION TAGS



**1 FLOOR PLAN - AREA B**  
1/8" = 1'-0"

20250120 10:54 AM Autodesk Docs\Brinkley High School\2025\2025 Brinkley High School\2025\4



**PARTITION TAG LEGEND**

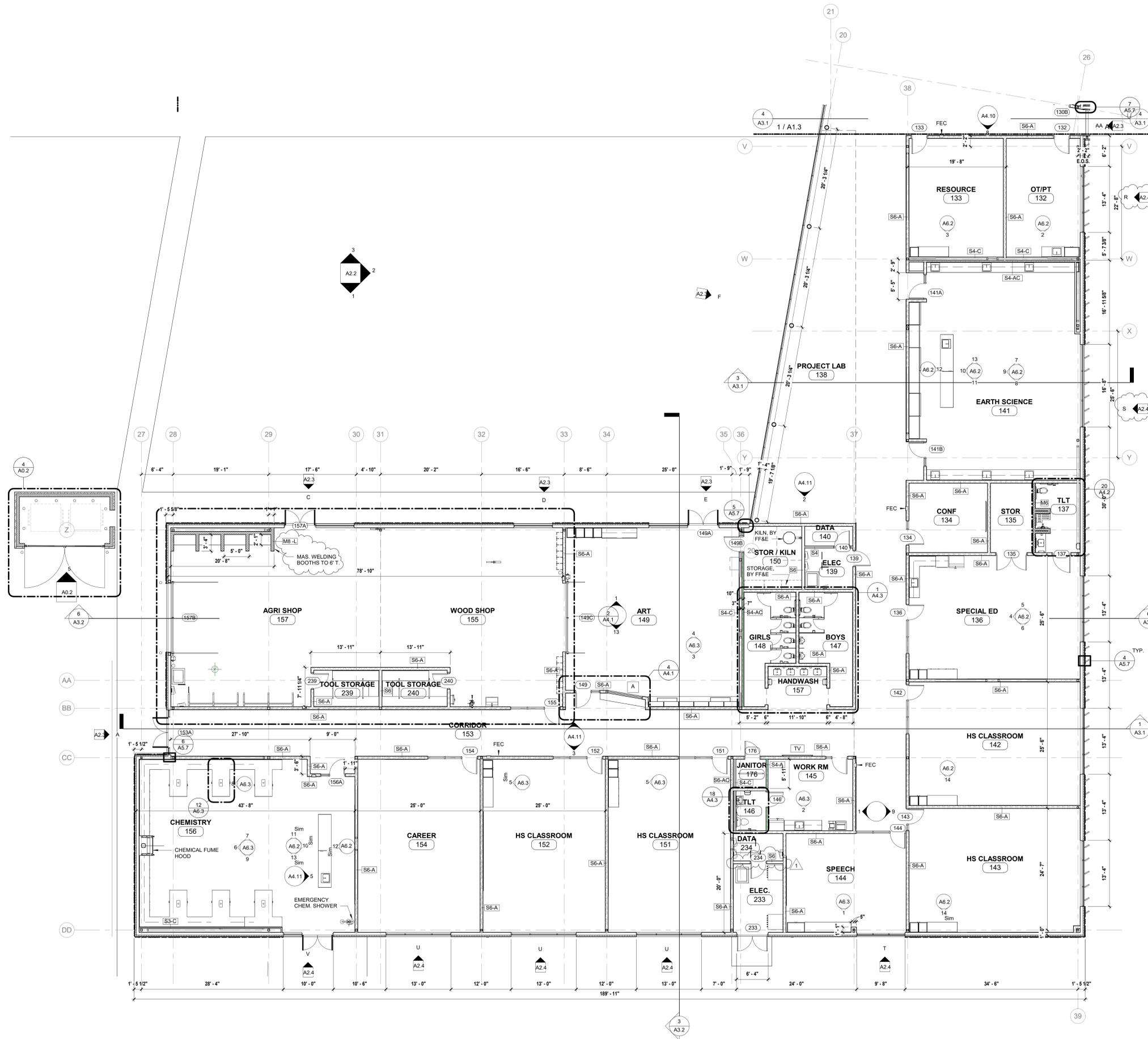
PARTITION CORE:		CORE WIDTH:		ADDITIONAL:
KEY#:	STUD:	KEY#:	STUD:	MASONRY:
S	STUD (METAL)	2	2 1/2"	
M	MASONRY	4	3 5/8"	F#
W	STUD (WOOD)	4	3 5/8"	A
H	SHAFT WALL	6	6"	C
		8	8"	L
		10	10"	
		12	12"	

**NOTE:** AT ALL WALL TILE LOCATIONS OVER METAL STUDS, PROVIDE TILE CEMENT BACKER BOARD - REFER TO ELEVATIONS AND FINISH SCHEDULE.

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**ADDITIONAL PROPERTIES (SEE DETAILS):**  
FIRE RESISTANCE RATING (# HOURS)  
ACOUSTIC RATED ASSEMBLY  
CONCEALED CONSTRUCTION, FINISH ONLY  
ONE SIDE OF PARTITION  
LOW WALL NOT BRACED TO STRUCTURE ABOVE - REFER TO SECTIONS OR ELEVATIONS FOR HEIGHT

**NOTE:** SHEET UPDATED WITH ADDITIONAL PARTITION TAGS



**1 FLOOR PLAN - AREA C**  
1/8" = 1'-0"

