MORE THAN ARCHITECTS

ADDENDUM

NO. 2

TO THE DRAWINGS AND THE PROJECT MANUAL

PROJECT NAME: Humble ISD Creekwood and Riverwood Middle School Additions and Renovations

CLIENT NAME: Humble ISD

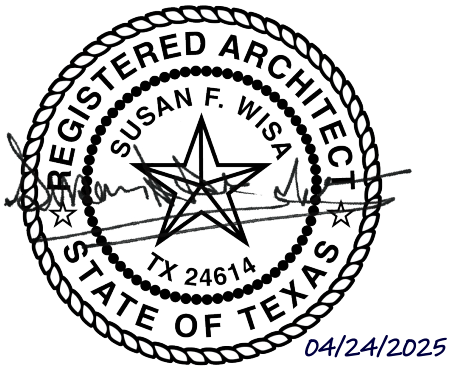
LOCATION: Humble, Texas

PROJECT NUMBER: 1821-13-01, 1821-13-02

PROPOSAL DATE: Thursday, May 8th, 2025, 2:00 PM

ADDENDUM DATE: Thursday, April 24th, 2025

For additional information regarding this project, contact Ross Morgan at 800.687.1229.



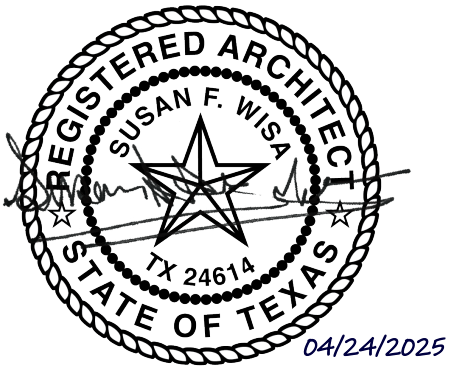
THIS ADDENDUM INCLUDES:

Civil Items	0 Pages
Landscape Items	0 Pages
Structural Items	0 Pages
Architectural Items	2 Pages
Foodservice Items	0 Pages
Plumbing Items	0 Pages
Mechanical Items	0 Pages
Electrical Items	0 Pages
Technology Items	1 Pages

AND ALL ATTACHED REVISED DRAWING REFERENCES IN THE ADDENDUM

Huckabee

Project Name: Humble ISD Creekwood and Riverwood Middle School Additions and Renovations
Client: Humble ISD
Humble, Texas
Project Number: 1821-13-01, 1821-13-02



ARCHITECTURAL ITEMS FOR ADDENDUM NO. 2

NOTICE TO PROPOSERS:

A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer's proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

PROJECT MANUAL:

AD No 1, Arch. Item 1: To the Project Manual, "32 3113 – CHAIN LINK FENCES AND GATES."

- Add this Specification section in it's entirety.

AD No 1, Arch. Item 2: To the Project Manual, "00 2116 – INSTRUCTIONS TO PROPOSERS."

- 1.01, A. – Update all references to "THURSDAY, MAY 1, 2025" to "THURSDAY, MAY 8, 2025."
- 1.01, F. – Update reference to "Thursday, May 1, 2025" to "Thursday, May 8, 2025."

DRAWINGS:

No Drawing revisions in this Addendum.

ATTACHMENTS:

AD No 1, Arch. Item 3: See attached "62-23-27 Creekwood Middle School AHERA Report (additions-renovations)-2"

AD No 1, Arch. Item 4: See attached "62-23-28 Riverwood Middle School AHERA Report (additions-renovations areas)"

QUESTIONS RECEIVED:

1) Please provide the schedule indicating when work can be performed during regular working hours and when it must be conducted outside of school hours.
Response: Refer to 01 1400 – Work Restrictions. Campus will be in operation during the duration of construction. Construction activities must not impede the operation of the campus.

2) Please clarify what areas will require new Fire Sprinklers/modify existing in both schools.
Response: Refer to "BUILDING DESIGN CRITERIA" legend on Sheet G2.01 and keynotes on Sheet P3.16. New additions and existing building to receive new Fire Sprinkler system.

3) Please clarify who is responsible for TAB cost.
Response: GC is responsible for Testing and Balancing in accordance with Specification Section 23 0593.

4) Please confirm who is responsible for the RF Survey and Testing of the ERRC systems as indicated in Specification Section 28 55 00.
Response: Refer to " RF SURVEY – ERRC" legend on Sheet G2.01.

5) Can you please share whether the existing roofs of both schools have warranty? If yes, please provide the list of subcontractors. Also please share the information of current roofing sub for ongoing construction on both site?
Response: This information will be shared with the selected contractor.

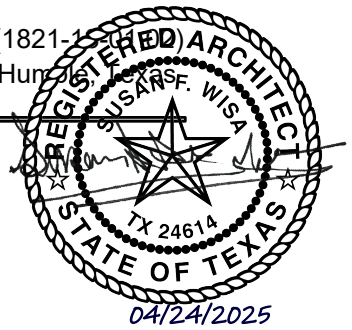
6) Do we need to include any costs for furniture moving?
Response: Furniture will need to be moved in order to complete the scope of work on this project. Price accordingly.

7) There is no specification for display cases.
Response: Display case information can be found in 10 1100 – Visual Display Units.

8) The finish plans call for sealed concrete. There is no specification for this.
Response: Sealed concrete information can be found in 09 9900 – Painting and Coating.

9) On Sheet No. C2.1 keynote no. 2 indicates to remove and replace the existing tree. Please clarify if we have to provide new trees or if we need to relocate the existing. Additionally, in the event of relocation, please confirm who will be responsible for hiring the certified Arborist to oversee the relocation and ensure the tree's survival throughout the process.
Response: The existing trees will be removed, and new trees will be planted in accordance with the Landscape Drawings.

END OF ARCHITECTURAL ADDENDUM



SECTION 32 3113
CHAIN LINK FENCES AND GATES

PART 1 – GENERAL

1.01 DESCRIPTION

A. Work included: Provide chain link fence system where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.

B. Related work:
   1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 01 of these Specifications.

1.02 QUALITY ASSURANCE

A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

1.03 SUBMITTALS

A. Comply with pertinent provisions of Section 01 3000 – Administrative Requirements.

B. Product data: Within 15 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
   1. Materials list of items proposed to be provided under this Section;
   2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements;
   3. Shop Drawings in sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades;
   4. Manufacturer's recommended installation procedures which, when approved by the Architect, will become the basis for accepting or rejecting actual installation procedures used on the Work.
   5. Samples: Accompanying the submittal described above, submit Samples of each sealant, each backing material, each primer, and each bond breaker proposed to be used.

1.04 PRODUCT HANDLING

A. Comply with pertinent provisions of Section 01 6000 – Product Requirements.

PART 2 – PRODUCTS

2.01 DIMENSIONAL DATA

A. General:
   1. Pipe sizes indicated are commercial pipe sizes.
   2. Tube sizes indicated are nominal outside dimensions.
   3. H-section sizes indicated are normal flange dimensions.
   4. Roll-formed section sizes indicated are the nominal outside dimensions.

2.02 GALVANIZING

A. On steel framework and appurtenances, provide galvanized finish with not less than the following weight of zinc per sq. ft.
   1. Pipe: 1.8 oz, complying with ASTM A120.
   2. H-sections and square tubing: 2.0 oz, complying with ASTM A123.
   3. Hardware and accessories: Comply with Table 1 of ASTM A153.
   4. Fabric: 2.0 oz, complying with class II of ASTM A121.

2.03 FABRIC

A. Provide number 9 gage or 0.148" wires in 2" or 2-1/4" mesh (match existing), with top knuckled and bottom selvages twisted and barbed.

B. Provide fabric in one piece widths.

2.04 POSTS, RAILS, AND ASSOCIATED ITEMS

A. End, corner, slope, and pull posts: Provide at least the following minimum sizes and weights:
   1. Material and dimensions:
      a. Pipe, 2.875" outside dimension, Lbs. per lin ft: 5.79
      b. Tubing, 2-1/2" square, Lbs per lin ft: 5.70
      c. Roll-formed section, 3-1/2" x 3-1/2", Lbs per lin ft: 5.14

B. Line posts: Provide minimum sizes and weights as follows:
   1. Material and dimensions:
      a. Pipe, 2.375" outside dimension, Lbs. per lin ft: 3.65
      b. H-section, 2.25" x 1.95" x 0.143", Lbs per lin ft: 10.10

C. Gate posts: Provide gate posts for supporting single gate leaf, or one leaf of a double gate installation, for nominal gate widths as follows:
   1. Material and dimension:
      a. Pipe, 4" outside dimension: Lbs. per lin ft: 9.10
      b. Tubing, 3" square:, Lbs. per lin ft: 9.10
      c. H-section, 4", Lbs. per lin ft: 14.00
         1) Over 13 feet wide, and up to 18 feet wide: Use 6.625" outside diameter pipe weighing 14.0 lbs. per lin ft.
         2) Over 18 feet wide: Use 8.625" outside diameter pipe weighing 24.70 lbs. per lin ft.

D. Top rails:
   1. Use 1.660" outside diameter pipe weighing 1.80 lbs. per lin ft; or
   2. Use 1.625" x 1.25" roll-formed sections weighing 1.35 lbs. per lin ft.
   3. Provide in manufacturer's longest lengths, with expansion type couplings approximately 6" long for each joint.
   4. Provide means for attaching top rail securely to each gate, corner, pull, slope, and end post.

E. Mid-Rails:
   1. Provide mid-rail for fences 8'-0" tall and higher, same as top rail.

F. Post brace assemblies:
   1. Provide at end and gate posts, and at both sides of corner, slope, and pull posts, with the horizontal brace located at mid-height of the fabric.
   2. Use 1.660" outside diameter pipe weighing 1.80 lbs. per lin ft for horizontal brace.
   3. Use 3/8" diameter rod with turnbuckle for diagonal truss.

G. Tension wire: Provide number 7 gage galvanized coiled spring wire at bottom of fabric.

H. Post tops:
   1. Provide steel, wrought iron, or malleable iron, designed as weathertight closure cap.
   2. Provide one cap for each post.
   3. Provide caps with openings to permit through passage of top rail.

I. Stretcher bars:
   1. Provide one-piece lengths equal to full height of fabric, with a minimum cross-section of 3/16"x 3/4".
   2. Provide one stretcher bar for each gate and end post, and two for each corner, slope, and pull post, except where fabric is woven integrally into the post.

J. Stretcher bar bands:
   1. Provide steel, wrought iron, or malleable iron, spaced not over 15" on centers, to secure stretcher bars to end, corner, pull, slope, and gate posts.
   2. Bands may be used also with special fittings for securing rails to end, corner, pull, slope, and gate posts.

2.05 GATES

A. General:
   1. Fabricate gate perimeter frames of tubular members.
   2. Provide additional horizontal and vertical members to assure proper operation of the gate, and for attachment of fabric, hardware, and accessories.
   3. Space so frame members are not more than 8 feet apart.
   4. Fabricate gate frames from:
      a. Materials and dimension:
         1) Pipe 1.90" outside diameter, Lbs. per lin ft: 2.72
         2) Tubing, 2" square, Lbs. per lin ft: 2.60

B. Fabrication:
   1. Assemble gate frames by welding with special malleable or pressed steel fittings and rivets for rigid connections.
   2. Use same fabric as used in the fence.
   3. Install fabric with stretcher bars at vertical edges as a minimum.
   4. Attach stretchers to gate frame at not more than 15" on centers.
   5. Attach hardware with rivets or by other means which will provide security against removal and breakage.
   6. Provide diagonal cross-bracing consisting of 3/8" diameter adjustable length truss rods on gates where required to provide frame rigidity without sag or twist.

C. Gate hardware: Provide following for each gate:
   1. Hinges:
      a. Pressed or forged steel, or malleable iron, to suit the gate size; non-lift-off type, offset to permit 180 degree opening.
      b. Provide 1-1/2 pr of hinges for each leaf over 6 feet in nominal height.
   2. Latches:
      a. Provide forked type or plunger-bar type to permit operation from either side of the gate.
      b. Provide padlock eye as integral part of latch.
   3. Keeper: Provide keeper for vehicle gates, which automatically engages the gate leaf and holds it in the open position until manually released.
   4. Double gates:
      a. Provide gate stops for double gates consisting of mushroom or flush plate, with anchors.
      b. Set in concrete to engage the center drop rod or plunger bar.
      c. Provide locking device and padlock eyes as an integral part of the latch, requiring one padlock for locking both gate leaves.
   5. Security gates:
      a. For each leaf, top hinge shall be Locinox; MAMMOTH-180 Hydraulic Gate Closer & Hinge.
      b. For additional security hardware refer to 08 7100 - Door Hardware.

2.06 MISCELLANEOUS MATERIALS AND ACCESSORIES

A. Wire ties:
   1. For tying fabric to line posts, use number 9 gage wire ties spaced 12" on centers.
   2. For tying fabric to rails and braces, use number 9 gage wire ties spaced 24" on centers.

3. For tying fabric to tension wire, use number ll gage hog rings spaced 24" on centers.
4. Manufacturer's standard wire ties will be acceptable if of equal strength and durability.

B. Concrete: Comply with provisions of Section 03 3000 – Cast-in-Place Concrete for 2500 psi concrete.

PART 3 – EXECUTION

3.01 SURFACE CONDITIONS

A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.02 GUARANTEE

A. The contractor shall furnish a written guarantee warranting all materials, devices, and workmanship to be free of defects for a period of one year from the date of completion and acceptance. Any defects in materials, devices, and workmanship which become apparent within the guarantee period shall be repaired or replaced by the contractor at his own expense, and at no additional cost to the Owner.

3.03 INSTALLATION

A. General:
1. Install posts at a maximum spacing of 10 feet on centers.
2. Install corner or slope posts where changes in line or grade exceed a 30 degree deflection.

B. Excavating:
1. Drill holes for post footings in firm, undisturbed or compacted soil, strictly adhering to the dimensions and spacing shown.
2. Post hole dimensions:
   a. Provide 30" deep by 8" diameter foundations for line posts for 5 foot fabric height and less.
   b. Provide 36" deep by 8" diameter foundations for line posts for fabric heights exceeding 5 feet.
   c. Provide 36" deep by 12" diameter foundations for all other posts.
3. Spread soil from excavations uniformly adjacent to the fence line, or on adjacent areas of the site if so directed.
4. When solid rock is encountered near the surface, drill into rock at least 12" for line posts and at least 18" for end, pull, gate, and corner posts. Drill hole at least 1" greater diameter than the largest dimension of the post to be placed.
5. If solid rock is below soil overburden, drill to full depth required, except penetration into rock need not exceed minimum depths specified above.

C. Setting posts:
1. Remove loose and foreign materials from sides and bottoms of holes, and moisten soil prior to placing concrete.
2. Center and align posts in holes.
3. Place concrete around posts in a continuous pour, and vibrate or tamp for consolidation.
4. Check each post for vertical and top alignment, and hold in position during placement and finishing operations.
5. Trowel tops of footings, and slope or dome to direct water away from posts.
6. Extend footings for gate posts to the underside of bottom hinge.
7. Set keeps, stops, sleeves, and other accessories into concrete as required.
8. Keep exposed concrete surfaces moist for at least seven days after placement, or cure with membrane curing material or other curing method approved by the Architect.

9. Grout-in those posts which are set into sleeved holes, concrete constructions, or rock excavations, using non-shrink Portland cement grout or other grouting material approved by the Architect.

D. Concrete strength:
   1. Allow concrete to attain at least 75% of its minimum 28-day strength before rails, tension wires, and/or fabric is installed.
   2. Do not, in any case, install such items in less than seven days after placement of concrete.
   3. Do not stretch and tension fabric and wire, and do not hang gates, until concrete has attained its full design strength.

E. Rails and bracing:
   1. Install fence with a top rail and bottom tension wire.
   2. Install top rails continuously through post caps or extension arms, bending to radius for curved runs.
   3. Provide expansion couplings as recommended by the fencing manufacturer.
   4. Provide bracing to the midpoint of the nearest line post or posts at all end, corner, slope, pull, and gate posts.
   5. Install tension wires parallel to the line of fabric by weaving through the fabric, and tying to each post with not less than number 6 gage galvanized wire, or by securing the wire to the fabric.

F. Installing fabric:
   1. Leave approximately 2" between finish grade and bottom selvage.
   2. Excavate high points in the ground to clear the bottom of the fence.
   3. Place and compact fill to within 1" of the bottom of the fabric in depressions.
   4. Pull fabric taut and tie to posts, rails, and tension wires.
   5. Install fabric on outward side facing side of fence, and anchor to framework so that the fabric remains in tension after pulling force is removed.
   6. Install stretcher bars by threading through or clamping to fabric on 4" centers, and secure to posts with metal bands spaced 15" on centers.

G. Installing gates:
   1. Install gates plumb, level, and secure for full opening without interference.
   2. Install ground-set items in concrete for anchorage in accordance with the fence manufacturer's recommendations as approved by the Architect.
   3. Lubricate and adjust the hardware for smooth operation.

H. Miscellaneous:
   1. Use U-shaped tie wires, conforming to diameter of pipe to which attached, clasping pipe and fabric firmly with ends twisted at least two full turns.
   2. Bend ends of wire to minimize hazards to persons and clothing.
   3. Fasteners:
      a. Install nuts for tension band and hardware bolts on side of fence opposite fabric side.
      b. Peen the ends of bolts to prevent removal of nuts.
   4. Repair coatings damaged in the shop or field erection, using a hot-applied repair compound applied in accordance with its manufacturer's recommendations as approved by the Architect.

END OF SECTION

LOFLIN ENVIRONMENTAL SERVICES, INC.

March 28, 2024

Ms. Leigh Ann Johnson
Humble ISD Support Services Division
P.O. Box 2000
Humble, Texas 77347

AHERA ASBESTOS INSPECTION
CREEKWOOD MIDDLE SCHOOL
3603 W. LAKE HOUSTON PKWY.
KINGWOOD, TEXAS

INTRODUCTION
Loflin Environmental Services, Inc. performed an EPA required AHERA inspection of the Creekwood Middle School building, located at 3603 W. Lake Houston Pkwy. in Kingwood, Texas on January 24, March 12 and March 28, 2024. The inspection was performed by Mr. Michael Hendrix & Mathew Songster, an EPA accredited and Texas DSHS licensed asbestos inspector in general accordance with the requirements of 40 CFR Part 763, Subpart E, Section 763.85(b).

The purpose of the inspection was to:

- Identify all friable and non-friable asbestos containing materials.
- Observe and touch all suspect materials, identifying those materials, and either sampling or assuming suspect materials to contain asbestos.
- Sample locations will be documented on a legible drawing of school building.
- Any materials resulting as asbestos containing will be documented on a drawing and quantified.
- A condition assessment will be provided for all asbestos containing materials.

LIMITATIONS
Inaccessible areas, such as wall cavities, pipe chases, flooring under carpeting, and above sheetrock or plaster ceilings and outside the building do not fall within the scope of an AHERA asbestos inspection.

FACILITY DESCRIPTION
The Creekwood Middle School consists of an approximately 145,000 square foot one-story building, which was constructed in 1981. The building construction consists of a steel beam frame with brick veneer over a concrete foundation. The interior walls are

sheetrock. The floors are covered with ceramic floor tile, vinyl floor tile, floor coating or carpet. The ceilings consist of sheetrock and lay-in ceiling tile. Heating and air conditioning are supplied by HVAC units and distributed through fabricated sheet metal ducts with fiberglass insulation.

HOMOGENOUS MATERIALS

- Laminate flooring
- 12” x 12” Green Floor Tile
- 12” x 12” White Floor Tile
- 12” x 12” Black Floor Tile
- 12” x 12” White w/ blue Floor Tile
- Sheetrock/Joint Compound
- Cove Base Mastic
- 2’ x 2’ Lay-in Ceiling Tile
- 2’ x 2’ Sheetrock Ceiling Tile
- 1’ x 1’ Ceiling tile
- Gray HVAC duct mastic
- White HVAC duct mastic
- Spray-on Fireproofing
- Vapor barrier mastic
- Roof cap caulking
- Main core roof
- Chill water supply and return
- Hot water supply and return
- Domestic water line
- Expansion joint caulking
- Carpet Glue w/ black mastic
- Yellow Carpet glue
- CMU texture

SUMMARY OF FINDINGS

Based on laboratory analysis, the following materials were found to contain asbestos.

Black floor mastic was found to contain 2-5% Chrysotile asbestos. The asbestos containing black floor mastic was observed throughout the building under floor tile, carpet and laminate flooring. Walkthrough verification revealed the material in the following areas, Rooms 103, 101, 108, 106, 104, 102, 301, 303, 305, 307, TP 300 hall, TP 500 Hall, 504, 505, 700B, 701, 703, 202, 204, 205, 206, TP 200 Hall, TP 400 hall, TP 600 hall, 902, 904, 903, Main office restrooms, Teachers lounge, Conference Office, Clinic, Printer room, Break room, Library offices, Orchestra, and Floor tiled Gym. Approximately 50,000 Sq. Ft.

Black vapor barrier mastic was found to contain 5-7% Chrysotile asbestos. The asbestos containing black vapor barrier mastic was observed behind exterior brick at the rear of the building. Approximately 54,000 Sq. Ft.

- ***It will be the Contractor's responsibility to confirm asbestos material quantities prior to material disturbance. There will be no discussion regarding specified asbestos material quantities after commencement of work.***

According to 2020 AHERA reinspection report, TSI that is enclosed in pipe chases and wall cavities is considered to be Asbestos Containing Material

Any Area's containing black floor mastic are considered Asbestos Containing Material

RECOMMENDATIONS

Humble I.S.D. must maintain a copy of this report with the Asbestos Operations and Maintenance (O & M) file and at the location of the Creekwood Middle School. Any suspect materials discovered during renovation or demolition activities that were not addressed in this report should be promptly tested for asbestos content by a Texas DSHS licensed asbestos inspector.

A listing of homogeneous materials that were sampled and bulk sample locations with a drawing of the school building is included in this report.

Should you have any questions regarding this report, please contact us at (713) 521-3300

Kind Regards,

Michael Hendrix
Texas DSHS Inspector #602838

HOMOGENEOUS MATERIALS/BULK SAMPLE LOCATIONS

- **Carpet glue w/ black mastic**
  - 01 – Choir practice room 1
  - 02 – Choir practice room 1
  - 03 - Band practice room 2
- **Cove base mastic**
  - 04 – Band hall storage
  - 05 – Culinary arts room
  - 06 – CTE
- **CMU texture**
  - 07 – Band hall
  - 08 – Band hall
  - 09 – Band hall storage
  - 10 – Choir room
  - 11 – Choir room

12 – Choir room storage
13 – Culinary arts

- **Laminate flooring**
  14 – Band hall
  15 – Band hall
  16 – Band hall
- **2’ x 2’ white ceiling tile**
  17 – Music room
  18 – Culinary arts room
  19 – CTE
- **2’ x 2’ sheetrock ceiling tile**
  20 – Choir room
  21 – Band hall
  22 – Choir room
- **1’ x 1’ Ceiling tile**
  23 – Choir practice room 1
  24 – Choir practice room 1
  25 – Choir practice room 2
- **Wallboard system**
  26 – Choir room
  27– Choir room
  28 – Choir room
  29 – Band hall
  30 – CTE
  31 – CTE
  32 – Culinary arts room
- **12” x 12” Green floor tile w/ black mastic**
  33 – Band hall
  34 – Band hall
  35 – Band hall
- **Spray-on fire proofing**
  36 – Band hall
  37 – Band hall
  38 – Choir room
  39 – Choir room
  40 – Choir room
  41 – CTE
  42 – Culinary arts room
- **Gray duct mastic**
  43 – CTE electrical closet
  44 – CTE electrical closet
  45 – CTE electrical closet
- **White duct mastic**

46 – CTE
47 – CTE
48 – CTE

- **12” x 12” White floor tile w/ black mastic**

49 – CTE office area
50 – CTE office area
51 – CTE office area

- **12” x 12” Black floor tile w/ black mastic**

52 – CTE
53 – CTE
54 – CTE

- **12” x 12” Black floor tile w/ black mastic**

55 – CTE office area
56 – CTE office area
57 – CTE office area

- **12” x 12” White floor tile w/ black mastic**

58 – Culinary arts pantry
59 – Culinary arts storage
60 – Culinary arts main

- **Vapor barrier mastic**

01B – Rear of building

- **Roof cap caulking**

02B – Roof

- **Main core roof**

03B – Roof

- **Chill water supply**

04B – Culinary Hall
05B – Gym Mechanical room
06B – Band Hallway

- **Chill water return**

07B– Culinary Hall
08B– Gym Mechanical room
09B –Band hallway

- **Hot water supply**

10B – Culinary Hall
11B – Gym Mechanical room
12B – Band Hallway

- **Hot water return**

13B– Culinary Hall
14B– Gym Mechanical room
15B –Band hallway

- **Expansion joint caulking**

16B – Rear of building

- **Domestic water line**
  17B– Culinary Hall
  18B– Culinary Hall
  19B – Culinary Hall

Additional Samples 3-14-24

- **Black floor mastic**
  01– 700B
  02– 701
  03– 703
  04– 500TP
  05– 301
  06– 303
  07– 307
  08– 202
  09– Clinic
  10– Conference office
- **Yellow carpet glue**
  11– Library
  12– Theater
  13– 501
  14– 404
  15– 601
  16– 603
  17– Front office

Additional Samples 3-28-24

- **Yellow carpet glue**
  01– 705
  02– 707
  03– 709
  04– 502
  05– 504
  06– 506
  07– 508
  08– 505
  09– 503
  10– 507

11– 302
12– 304
13– 306
14– 308
15– 310
16– 100
17– 208
18– 201
19– 203
20– 205
21– 207
22– 402
23– 404
24– 406
25– 408
26– 410
27– 401
28– 403
29– 405
30– 407
31– 602
32– 604
33– 606
34– 608
35– 610
36– 605
37– 607

- **Black floor mastic**

38– Orchestra
39– 906
40– 505
41– 305
42– 102
43– 104
44– 106
45– 108
46– 101
47– 205
48– 200TP
49– 400TP
50– 600TP
51– Cafeteria
52– Library offices

53– Copy room
54– Office R/R
55– Office Break room
56– Clinic
57– 204
58– Media production-library

- **Yellow carpet glue**

59– Front office south side
60– Front office north side
61– Principal office area
62– Stage storage
63– Stage

- **Black floor mastic**

64– Seminar work room
65– Periodicals
66– Library offices

- **Yellow carpet glue**

67– Mrs. Griph office
68– Conference office
69– Principal assistant office

- **Black floor mastic**

70– 3D printer room
71– Dark room

- **Yellow carpet glue**

72– Middle office area

Flooring Sample Locations

Sample Number	Date	Location	ACM
01	1/24/24	Choir Practice room 1	YES
02	1/24/24	Choir Practice room 1	YES
03	1/24/24	Band Practice room 2	YES
15	1/24/24	Band Hall	YES
16	1/24/24	Band Hall	YES
33	1/24/24	Band Hall	YES
34	1/24/24	Band Hall	YES
35	1/24/24	Band Hall	YES
58	1/24/24	Culinary arts pantry	YES
59	1/24/24	Culinary arts storage	YES
60	1/24/24	Culinary arts main	YES
01	3/14/24	700B	YES
02	3/14/24	701	YES
03	3/14/24	703	YES
04	3/14/24	500TP	YES
05	3/14/24	301	YES
06	3/14/24	303	YES
07	3/14/24	307	YES
08	3/14/24	202	YES
09	3/14/24	Clinic	YES
10	3/14/24	Conference office	YES
11	3/14/24	Library	NO
12	3/14/24	Theater	NO
13	3/14/24	501	NO

Sample Number	Date	Location	ACM
14	3/14/24	404	NO
15	3/14/24	601	NO
16	3/14/24	603	NO
17	3/14/24	Front office	NO
01	3/28/24	705	NO
02	3/28/24	707	NO
03	3/28/24	709	NO
04	3/28/24	502	NO
05	3/28/24	504	NO
06	3/28/24	506	NO
07	3/28/24	508	NO
08	3/28/24	505	NO
09	3/28/24	503	NO
10	3/28/24	507	NO
11	3/28/24	302	NO
12	3/28/24	304	NO
13	3/28/24	306	NO
14	3/28/24	308	NO
15	3/28/24	310	NO
16	3/28/24	100	NO
17	3/28/24	208	NO
18	3/28/24	201	NO
19	3/28/24	203	NO
20	3/28/24	205	NO
21	3/28/24	207	NO
22	3/28/24	402	NO
23	3/28/24	404	NO

Sample Number	Date	Location	ACM
24	3/28/24	406	NO
25	3/28/24	408	NO
26	3/28/24	410	NO
27	3/28/24	401	NO
28	3/28/24	403	NO
29	3/28/24	405	NO
30	3/28/24	407	NO
31	3/28/24	602	NO
32	3/28/24	604	NO
33	3/28/24	606	NO
34	3/28/24	608	NO
35	3/28/24	610	NO
36	3/28/24	605	NO
37	3/28/24	607	NO
38	3/28/24	Orchestra	YES
39	3/28/24	906	YES
40	3/28/24	505	YES
41	3/28/24	305	YES
42	3/28/24	102	YES
43	3/28/24	104	YES
44	3/28/24	106	YES
45	3/28/24	108	YES
46	3/28/24	101	YES
47	3/28/24	205	YES
48	3/28/24	200TP	YES
49	3/28/24	400TP	YES
50	3/28/24	600TP	YES

Sample Number	Date	Location	ACM
51	3/28/24	Cafeteria/GYM	YES
52	3/28/24	Library Offices	YES
53	3/28/24	Copy Room	YES
54	3/28/24	Office R/R	YES
55	3/28/24	Office Break room	YES
56	3/28/24	Clinic	YES
57	3/28/24	204	YES
58	3/28/24	Media production-library	YES
59	3/28/24	Front office south side	NO
60	3/28/24	Front office north side	NO
61	3/28/24	Principal office area	NO
62	3/28/24	Stage storage	NO
63	3/28/24	Stage	NO
64	3/28/24	Seminar work room	YES
65	3/28/24	Periodicals	YES
66	3/28/24	Library offices	YES
67	3/28/24	Mrs. grigh office	NO
68	3/28/24	Conference office	NO
69	3/28/24	Principal Assistant	NO
70	3/28/24	3D printer room	YES
71	3/28/24	Dark room	YES
72	3/28/24	Middle office	NO

Black Floor Mastic

Yellow Floor Mastic/ Non-ACM

Black Vapor Barrier Mastic

V Floor Tile

C Carpet

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Environmental Services, Inc.
2020 Montrose Blvd., Suite 100
Houston, Tx 77006
(713)351-1301/(713)494-4442

Approximate Sample Location Diagram

***Client: Humble ISD**

Creekwood Elementary
3603 W. Lake Houston Pkwy.
Kingwood, Texas

Job # 62-23-27

Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
(713) 521-3300 Fax (713)523-0829

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385219*	01	BLACK, TARRY HOMOGENEOUS (CARPET MASTIC)		3-5% CHRYSOTILE	TAR
L385220*	02	BLACK, TARRY HOMOGENEOUS (CARPET MASTIC)		3-5% CHRYSOTILE	TAR
L385221*	03	BLACK, TARRY HOMOGENEOUS (CARPET MASTIC)		3-5% CHRYSOTILE	TAR
L385222	04	WHITE, GUMMY NONHOM (COVE BASE MASTIC)		NONE DETECTED	OTHER
		TAN, CRUMBLY (COVE BASE MASTIC)		NONE DETECTED	OTHER
L385223	05	WHITE, GUMMY NONHOM (COVE BASE MASTIC)		NONE DETECTED	OTHER
		TAN, CRUMBLY (COVE BASE MASTIC)		NONE DETECTED	OTHER
L385224	06	WHITE, GUMMY NONHOM (COVE BASE MASTIC)		NONE DETECTED	OTHER
		TAN, CRUMBLY (COVE BASE MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

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Departures from the test method: **None**
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Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385225	07	WHITE, CRUMBLY HOMOGENEOUS (CMU TEXTURE)		NONE DETECTED	OTHER
L385226	08	WHITE, CRUMBLY HOMOGENEOUS (CMU TEXTURE)		NONE DETECTED	OTHER
L385227	09	WHITE, CRUMBLY HOMOGENEOUS (CMU TEXTURE)		NONE DETECTED	OTHER
L385228	10	WHITE, CRUMBLY HOMOGENEOUS (CMU TEXTURE)		NONE DETECTED	OTHER
L385229	11	WHITE, CRUMBLY HOMOGENEOUS (CMU TEXTURE)		NONE DETECTED	OTHER
L385230	12	WHITE, CRUMBLY HOMOGENEOUS (CMU TEXTURE)		NONE DETECTED	OTHER
L385231	13	WHITE, CRUMBLY HOMOGENEOUS (CMU TEXTURE)		NONE DETECTED	OTHER

Laboratory Manager

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Departures from the test method: **None**
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Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385232	14	LT. BROWN, ELASTIC NONHOM (FLOORING)		NONE DETECTED	OTHER
		CLEAR, GUMMY (MASTIC)		NONE DETECTED	OTHER
		GRAY, CRUMBLY (FLOAT)		NONE DETECTED	OTHER
L385233*	15	LT. BROWN, ELASTIC NONHOM (FLOORING)		NONE DETECTED	OTHER
		CLEAR, GUMMY (MASTIC)		NONE DETECTED	OTHER
		WHITE, GRANULAR (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		3-5% CHRYSOTILE	TAR

Laboratory Manager

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Departures from the test method: **None**
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NVLAP 10-2044
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Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385234*	16	LT. BROWN, ELASTIC NONHOM (FLOORING)		NONE DETECTED	OTHER
		CLEAR, GUMMY (MASTIC)		NONE DETECTED	OTHER
		WHITE, GRANULAR (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		3-5% CHRYSOTILE	TAR
L385235	17	BEIGE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	40% CELLULOSE 35% MINERAL WOOL PERLITE, OTHER
L385236	18	BEIGE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	40% CELLULOSE 35% MINERAL WOOL PERLITE, OTHER
L385237	19	BEIGE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	40% CELLULOSE 35% MINERAL WOOL PERLITE, OTHER
L385238	20	WHITE, CHALKY HOMOGENEOUS (CEILING TILE)		NONE DETECTED	5% GLASS FIBERS OTHER
L385239	21	WHITE, CHALKY HOMOGENEOUS (CEILING TILE)		NONE DETECTED	5% GLASS FIBERS OTHER

Laboratory Manager

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Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385240	22	WHITE, CHALKY HOMOGENEOUS (CEILING TILE)		NONE DETECTED	5% GLASS FIBERS OTHER
L385241	23	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	85% MINERAL WOOL 5% CELLULOSE OTHER
L385242	24	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	85% MINERAL WOOL 5% CELLULOSE OTHER
L385243	25	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	85% MINERAL WOOL 5% CELLULOSE OTHER
L385244	26	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% GLASS FIBERS OTHER
L385245	27	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% GLASS FIBERS OTHER

Laboratory Manager

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Departures from the test method: **None**
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Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385246	28	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% GLASS FIBERS OTHER
L385247	29	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% GLASS FIBERS OTHER
L385248	30	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% GLASS FIBERS OTHER
L385249	31	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% GLASS FIBERS OTHER

Laboratory Manager

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Departures from the test method: **None**
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Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385250	32	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% GLASS FIBERS OTHER
L385251*	33	YELLOW, GUMMY NONHOM (MASTIC)		NONE DETECTED	OTHER
		BEIGE, GRANULAR (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L385252*	34	YELLOW, GUMMY NONHOM (MASTIC)		NONE DETECTED	OTHER
		BEIGE, GRANULAR (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR

Laboratory Manager

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Departures from the test method: **None**
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Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385253*	35	YELLOW, GUMMY NONHOM (MASTIC)		NONE DETECTED	OTHER
		BEIGE, GRANULAR (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L385254	36	BEIGE, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	40% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385255	37	BEIGE, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	40% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385256	38	BEIGE, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	40% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385257	39	BEIGE, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	40% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385258	40	BEIGE, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	40% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385259	41	BEIGE, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	40% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE

Laboratory Manager

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Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385260	42	BEIGE, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	40% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385261	43	LT. GRAY, GUMMY HOMOGENEOUS (DUCT MASTIC)		NONE DETECTED	OTHER
L385262	44	LT. GRAY, GUMMY HOMOGENEOUS (DUCT MASTIC)		NONE DETECTED	OTHER
L385263	45	LT. GRAY, GUMMY HOMOGENEOUS (DUCT MASTIC)		NONE DETECTED	OTHER
L385264	46	TAN, GUMMY HOMOGENEOUS (DUCT MASTIC)		NONE DETECTED	OTHER
L385265	47	TAN, GUMMY HOMOGENEOUS (DUCT MASTIC)		NONE DETECTED	OTHER
L385266	48	TAN, GUMMY HOMOGENEOUS (DUCT MASTIC)		NONE DETECTED	OTHER
L385267	49	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	5% CELLULOSE TAR

Laboratory Manager

*Asbestos-containing materials - The type and percentage of various fibrous components was determined by the microscopist in accordance with the U.S. Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", as found in 40 CFR, Part 763, Subpart E, Appendix E and the "Method For The Determination Of Asbestos In Bulk Samples" EPA 600/R-93/116, July 1993.
Departures from the test method: **None**
The above test report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
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Disclaimers: Asbestos content is quantified using Calibrated Visual Estimate. PLM analysis has been known to be inaccurate for materials with low concentrations of asbestos. Negative PLM results cannot be guaranteed. LES recommends using TEM analysis for materials reported as <1% or none detected.

Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
(713) 521-3300 Fax (713)523-0829

LOFLIN

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385268	50	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	5% CELLULOSE TAR
L385269	51	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	5% CELLULOSE TAR
L385270	52	BLACK, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	5% CELLULOSE TAR
L385271	53	BLACK, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	5% CELLULOSE TAR

Laboratory Manager

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Departures from the test method: **None**
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LOFLIN

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385272	54	BLACK, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	5% CELLULOSE TAR
L385273	55	WHITE, GUMMY HOMOGENEOUS (INT. WINDOW CAULKING)		NONE DETECTED	OTHER
L385274	56	WHITE, GUMMY HOMOGENEOUS (INT. WINDOW CAULKING)		NONE DETECTED	OTHER
L385275	57	WHITE, GUMMY HOMOGENEOUS (INT. WINDOW CAULKING)		NONE DETECTED	OTHER
L385276*	58	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L385277*	59	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR

Laboratory Manager

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Departures from the test method: **None**
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NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY., KINGWOOD, TX

Date Received: 01/25/2024
Date Analyzed: 01/30/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385278*	60	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR

Laboratory Manager

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Departures from the test method: **None**
The above test report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
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Disclaimers: Asbestos content is quantified using Calibrated Visual Estimate. PLM analysis has been known to be inaccurate for materials with low concentrations of asbestos. Negative PLM results cannot be guaranteed. LES recommends using TEM analysis for materials reported as <1% or none detected.

L385219-385278

X3

Environmental Services, Inc.
2020 MONTROSE, Ste. 100 – HOUSTON, TX 77006

Client: Humble I.S.D

Contact:

Client Address:

Phone/Email:

Lab Project # 62-23-27

Project Location: Creekwood Middle School 3603 W. Lake Houston Pkwy. Kingwood, TX 77339

Date: 1-24-24

PLM ANALYSIS TURNAROUND
☐ Immediate (< 3 Hours) ☐ Same Day ☐ 1 Day
☒ 2 Day ☐ 3 Day ☐ 1 Week

POINT COUNT (400 Point <.25%) TURNAROUND
☐ Immediate (< 3 Hours) ☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day ☐ 1 Week

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
385219	01	Carpet Glue + Black Mastic	—	—	Chr Practice room 1
385220	02	"	—	—	Chr Practice 1
221	03	"	—	—	Band practice 2
222	04	Baseboard w/ glue	—	—	Band Hall storage
223	05	" "	—	—	~~Band Hall~~ culinary
224	06	" "	—	—	Cte
225	07	CMU texture	—	—	Band Hall
226	08	" "	—	—	Band Hall
227	09	" "	—	—	Band Hall storage
228	10	" "	—	—	Choir
229	11	" "	—	—	Choir
230	12	" "	—	—	Choir storage
231	13	" "	—	—	~~Choir storage~~ culinary
232	14	laminate flooring	—	—	Band Hall
233	15	laminate flooring	—	—	Band Hall
234	16	" "	—	—	Band Hall
235	17	2x2 ceiling tile	—	—	old style — Music room
236	18	" "	—	—	~~Choir room~~ culinary room
237	19	" "	—	—	Cte
238	20	2x2 Sheetrock ceiling tile	—	—	Choir room

CHAIN OF CUSTODY SIGNATURE

RELINQUISHED BY:	RECEIVED BY: Marissa Manchaca
DATE/ TIME: 1-24-24	DATE/ TIME: 1/25/24 10:15am
RELINQUISHED BY:	RECEIVED BY:
DATE/ TIME:	DATE/ TIME:

RELINQUISHED BY:	**RECEIVED BY:**
DATE/TIME:	**DATE/TIME:**
CHAIN OF CUSTODY (cont.) 2/3	**PAGE_____ OF_____**
***LOFLIN* JOB #:** 62-23-27	**CLIENT:**
CLIENT JOB:	**CLIENT PO:**

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
385239	21	"	—	Band Hall	
385240	22	"	—	Choir room	
241	23	1x1 ceiling tile	—	Chiropractic room 1	
242	24	"	—	Band Practice room 1	
243	25	"	—	Choir Practice Room 2	
244	26	wallboard system	—	Choir room	
245	27	"	—	Choir room	
246	28	"	—	Choir room	
247	29	"	—	Band Hall	
248	30	"	—	ctc	
249	31	"	—	ctc	
250	32	"	—	~~ctc~~ culinary	
251	33	12x12 Green f.t. w/ mastic	—	under laminate flooring	
252	34	"	—	"	
253	35	"	—	"	
254	36	Spray-on fire proofing	—	Band Hall	
255	37	"	—	Band Hall	
256	38	"	—	Choir Hall	
257	39	"	—	Choir Hall	
258	40	"	—	Choir Hall	
259	41	"	—	ctc	
260	42	"	—	~~ctc~~ culinary	
261	43	Gray duct mastic	—	Shop Elect closet	
262	44	"	—	"	
263	45	"	—	"	
264	46	White duct mastic	—	ctc	
265	47	"	—	ctc	
266	48	"	—	ctc	
267	49	12x12 white f.t. w/ Blue	—	ctc office area	
268	50	"	—	ctc office area	
269	51	"	—	ctc office area	
270	52	12x12 black f.t.	—	ctc	
271/272	53/54		—	ctc	
			—	ctc	

CHAIN OF CUSTODY SIGNATURE	
RELINQUISHED BY:	**RECEIVED BY:** Marissa Manchaca
DATE/TIME:	**DATE/TIME:** 1/25/24 10:15am

RELINQUISHED BY: DATE/TIME:			RECEIVED BY: DATE/TIME:		
CHAIN OF CUSTODY (cont.) 3/3			PAGE____ OF____		
LOFLIN JOB #: 62-23-27			CLIENT:		
CLIENT JOB:			CLIENT PO:		
LAB NUMBER	**FIELD NUMBER**	**SAMPLE DESCRIPTION**	**LAB NUMBER**	**FIELD NUMBER**	**SAMPLE DESCRIPTION**
385273	55	Interior window casing	—	cte	office
385274	56	"	—	cte	office
275	57	"	—	cte	office
276	58	12x12 white tile	—	Culinary	Pantry
277	59		—	"	storage
✓278	60		—	"	main

CHAIN OF CUSTODY SIGNATURE	
RELINQUISHED BY: DATE/TIME:	RECEIVED BY: Marissa Manavade DATE/TIME: 1/25/24 10:15am

Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
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LOFLIN

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27B
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY, KINGWOOD, TX

Date Received: 02/15/2024
Date Analyzed: 02/15/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L386295*	01	BLACK, TARRY HOMOGENEOUS (VAPOR BARRIER MASTIC)		5-7% CHRYSOTILE	TAR
L386296	02	LT. GRAY, GUMMY HOMOGENEOUS (ROOF CAP CAULKING)		NONE DETECTED	OTHER
L386297	03	BLACK, FIBROUS NONHOM (MAIN ROOF)		NONE DETECTED	35% GLASS FIBERS TAR, AGGREGATE
		BLACK, TARRY (MAIN ROOF)		NONE DETECTED	TAR, AGGREGATE, OTHER
L386298	04	WHITE, GUMMY HOMOGENEOUS (CWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386299	05	WHITE, GUMMY HOMOGENEOUS (CWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386300	06	WHITE, GUMMY HOMOGENEOUS (CWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386301	07	WHITE, GUMMY HOMOGENEOUS (CWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386302	08	WHITE, GUMMY HOMOGENEOUS (CWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER

Laboratory Manager

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Departures from the test method: **None**
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NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27B
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY, KINGWOOD, TX

Date Received: 02/15/2024
Date Analyzed: 02/15/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L386303	09	WHITE, GUMMY HOMOGENEOUS (CWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386304	10	WHITE, GUMMY HOMOGENEOUS (HWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386305	11	WHITE, GUMMY HOMOGENEOUS (HWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386306	12	WHITE, GUMMY HOMOGENEOUS (HWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386307	13	WHITE, GUMMY HOMOGENEOUS (HWR MASTIC)		NONE DETECTED	3% CELLULOSE OTHER
L386308	14	WHITE, GUMMY HOMOGENEOUS (HWR MASTIC)		NONE DETECTED	3% CELLULOSE OTHER
L386309	15	WHITE, GUMMY HOMOGENEOUS (HWR MASTIC)		NONE DETECTED	3% CELLULOSE OTHER
L386310	16	WHITE, GUMMY HOMOGENEOUS (EXPANSION JOINT CAULK)		NONE DETECTED	OTHER
L386311	17	BEIGE, GUMMY HOMOGENEOUS (DOM. WATER LINE MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER

Laboratory Manager

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NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-27B
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY, KINGWOOD, TX

Date Received: 02/15/2024
Date Analyzed: 02/15/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L386312	18	TAN, GUMMY HOMOGENEOUS (DOM. WATER LINE MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L386313	19	WHITE, FIBROUS HOMOGENEOUS (DOM. WATER LINE WRAP)		NONE DETECTED	50% CELLULOSE OTHER

Laboratory Manager

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L386295-386313

RUSH

LOFLIN
Environmental Services, Inc.
2020 MONTROSE, Ste. 100 – HOUSTON, TX 77006

Client: Humble ISD

Contact:

Client Address:

Phone/Email:

Lab Project # 6-23-27B

Project Location: Creekwood middle school 3603 W. Lake Houston PKWY Kingwood TX

Date: 2-14-24

PLM ANALYSIS TURNAROUND
☒ Immediate (< 3 Hours) ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 1 Week

POINT COUNT (400 Point <.25%) TURNAROUND
☐ Immediate (< 3 Hours) ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 1 Week

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
386295	01	Vapor barrier mastic	feet of birds		
386296	02	roof cap caulking	roof		
297	03	Back roof	roof		
298	04	Chill water supply	Culinary	Hall	
299	05	" "	"	"	
300	06	" "	Band	Hallway	
301	07	Chill water return			
302	08	" "			
303	09	" "			
304	10	Hot water supply			
305	11	" "			
306	12	" "			
307	13	Hot water return			
308	14	" "			
309	15	" "			
310	16	Expansion joint caulk	Roof of Bldg.		
311	17	Domestic water line	Culinary	Hall	
312	18	" "	"	"	
313	19	" "	"	"	

CHAIN OF CUSTODY SIGNATURE

RELINQUISHED BY:
DATE/ TIME: 2-15-24

RECEIVED BY: Marissa Manchaca
DATE/ TIME: 2/15/24 10:50am

RELINQUISHED BY:

RECEIVED BY:

Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
(713) 521-3300 Fax (713)523-0829

LOFLIN

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-05
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY, KINGWOOD, TX

Date Received: 03/14/2024
Date Analyzed: 03/14/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L387956*	01	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387957*	02	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387958*	03	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387959*	04	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387960*	05	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387961*	06	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387962*	07	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387963*	08	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387964*	09	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR

Laboratory Manager

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Departures from the test method: **None**
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LOFLIN

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-05
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY, KINGWOOD, TX

Date Received: 03/14/2024
Date Analyzed: 03/14/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L387965*	10	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L387966	11	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L387967	12	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L387968	13	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L387969	14	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L387970	15	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L387971	16	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L387972	17	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

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Departures from the test method: **None**
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L387956-387972

Rush
Immediate

Environmental Services, Inc.
2020 MONTROSE, Ste. 100 – HOUSTON, TX 77006

Client: Humble ISD

Contact:

Client Address:

Phone/Email:

Lab Project # 62-24-05

Project Location: Creekwood Middle School 3603 W. Lake Houston Pkwy Kingwood, TX

Date: 3-14-24

PLM ANALYSIS TURNAROUND
- [x] Immediate (< 3 Hours)
- [ ] Same Day
- [ ] 1 Day
- [ ] 2 Day
- [ ] 3 Day
- [ ] 1 Week

POINT COUNT (400 Point <.25%) TURNAROUND
- [ ] Immediate (< 3 Hours)
- [ ] Same Day
- [ ] 1 Day
- [ ] 2 Day
- [ ] 3 Day
- [ ] 1 Week

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
387956	01	Black floor Mastic	- 700B		
387957	02	"	- 701		
958	03	"	- 703		
959	04	"	- 500 TP		
960	05	"	- 301		
961	06	"	- 303		
962	07	"	- 307		
963	08	"	- 202		
964	09	"	- Clinic		
965	10	"	- Conference office		
966	11	Yellow floor mastic	- Library		
967	12	"	- Theater		
968	13	"	- 501		
969	14	"	- 404		
970	15	"	- 601		
971	16	"	- 603		
972	17	"	- FICA office		

CHAIN OF CUSTODY SIGNATURE

RELINQUISHED BY: [signature] DATE/ TIME: 3-14-24	RECEIVED BY: Marissa Manchaca DATE/ TIME: 3/14/24 8:50AM
RELINQUISHED BY: DATE/ TIME:	RECEIVED BY: DATE/ TIME:

Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
(713) 521-3300 Fax (713)523-0829

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389002	01	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389003	02	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389004	03	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389005	04	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389006	05	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389007	06	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389008	07	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389009	08	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389010	09	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

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Departures from the test method: **None**
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EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389011	10	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389012	11	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389013	12	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389014	13	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389015	14	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389016	15	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389017	16	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389018	17	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389019	18	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

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EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389020	19	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389021	20	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389022	21	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389023	22	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389024	23	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389025	24	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389026	25	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389027	26	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389028	27	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

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Client: HUMBLE ISD
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Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389029	28	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389030	29	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389031	30	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389032	31	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389033	32	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389034	33	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389035	34	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389036	35	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389037	36	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

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NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389038	37	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER,
L389039*	38	YELLOW, CRUMBLY NONHOM (FLOOR MASTIC)		NONE DETECTED	OTHER
		BLACK, TARRY (FLOOR MASTIC)		1-2% CHRYSOTILE	TAR
L389040*	39	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L389041*	40	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L389042*	41	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L389043*	42	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR

Laboratory Manager

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EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
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Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389044*	43	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389045*	44	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389046*	45	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389047*	46	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR

Laboratory Manager

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NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389048*	47	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389049*	48	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		1-2% CHRYSOTILE	TAR
L389050*	49	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		1-2% CHRYSOTILE	TAR
L389051*	50	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR

Laboratory Manager

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Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389052*	51	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389053*	52	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389054*	53	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389055*	54	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		3-5% CHRYSOTILE	TAR

Laboratory Manager

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40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
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Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389056*	55	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389057*	56	WHITE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		LT. GRAY, CRUMBLY (OTHER)		NONE DETECTED	CALCITE, OTHER
		BLACK, TARRY (MASTIC)		2-3% CHRYSOTILE	TAR
L389058*	57	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L389059*	58	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L389060	59	BEIGE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		YELLOW, GUMMY (MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

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Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389061	60	BROWN, RUBBERY NONHOM (FLOOR TILE)		NONE DETECTED	OTHER
		BLUE, GUMMY (MASTIC)		NONE DETECTED	OTHER
		LT. GRAY, CRUMBLY (OTHER)		NONE DETECTED	1% CELLULOSE CALCITE, OTHER
L389062	61	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389063	62	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389064	63	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389065*	64	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		3-5% CHRYSOTILE	TAR
L389066*	65	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		4-6% CHRYSOTILE	TAR
L389067*	66	BLACK, TARRY HOMOGENEOUS (FLOOR MASTIC)		4-6% CHRYSOTILE	TAR

Laboratory Manager

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Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
(713) 521-3300 Fax (713)523-0829

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NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-24-08
Project Name: CREEKWOOD MIDDLE SCHOOL, 3603 W. LAKE HOUSTON PKWY

Date Received: 03/28/2024
Date Analyzed: 03/28/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L389068	67	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389069	68	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389070	69	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER
L389071*	70	BEIGE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		4-6% CHRYSOTILE	TAR
L389072*	71	BEIGE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		4-6% CHRYSOTILE	TAR
L389073	72	YELLOW, CRUMBLY HOMOGENEOUS (FLOOR MASTIC)		NONE DETECTED	OTHER

Laboratory Manager

*Asbestos-containing materials - The type and percentage of various fibrous components was determined by the microscopist in accordance with the U.S. Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", as found in 40 CFR, Part 763, Subpart E, Appendix E and the "Method For The Determination Of Asbestos In Bulk Samples" EPA 600/R-93/116, July 1993.
Departures from the test method: **None**
The above test report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
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Disclaimers: Asbestos content is quantified using Calibrated Visual Estimate. PLM analysis has been known to be inaccurate for materials with low concentrations of asbestos. Negative PLM results cannot be guaranteed. LES recommends using TEM analysis for materials reported as <1% or none detected.

L389002-389073

LOFLIN

Environmental Services, Inc.

2020 MONTROSE, Ste. 100 – HOUSTON, TX 77006

V3 RUSH

Client: Humble ISD

Contact:

Client Address:

Phone/Email:

Lab Project # 62-24-08

Project Location: Creekwood middle School

Date: 3-28-24

3603 W. Lake Houston Pkwy

PLM ANALYSIS TURNAROUND

- [x] Immediate (< 3 Hours)
- [ ] Same Day
- [ ] 1 Day
- [ ] ~~2 Day~~
- [ ] 3 Day
- [ ] 1 Week

POINT COUNT (400 Point <.25%) TURNAROUND

- [ ] Immediate (< 3 Hours)
- [ ] Same Day
- [ ] 1 Day
- [ ] 2 Day
- [ ] 3 Day
- [ ] 1 Week

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
389002	01	yellow floor mastic	- 705		
389003	02		- 707		
004	03		- 709		
005	04		- 502		
006	05		- 504		
007	06		- 506		
008	07		- 508		
009	08		- ~~501~~ 505		
010	09		- 503		
011	10		- 507		
012	11		- 302		
013	12		- 304		
014	13		- 306		
015	14		- 308		
016	15		- 310		
017	16		- 100		
018	17		- 208		
019	18		- 201		
020	19		- 203		
021	20		- 205		

CHAIN OF CUSTODY SIGNATURE

RELINQUISHED BY:	RECEIVED BY: Marissa Manchade
DATE/ TIME: 3-28-24	DATE/ TIME: 3/28/24 9AM
RELINQUISHED BY:	RECEIVED BY:
DATE/ TIME:	DATE/ TIME:

RELINQUISHED BY: DATE/TIME:	RECEIVED BY: DATE/TIME:
CHAIN OF CUSTODY (cont.)	PAGE_____ OF_____
LOFLIN JOB #:	CLIENT: Humble ISD
CLIENT JOB:	CLIENT PO:

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
389022	21	Yellow floor mask	- 207		
023	22	"	- 407		
024	23	"	- 404		
025	24	"	- 406		
026	25	"	- 408		
027	26	"	- 410		
028	27	"	- 401		
029	28	"	- 405		
030	29	"	- 405		
031	30	"	- 407		
032	31	"	- 607		
033	32	"	- 604		
034	33		- 606		
035	34	"	- 608		
036	35	"	- 610		
037	36	"	- 605		
038	37		- 607		
039	38	Black floor mask	- Orchestra		
040	39	"	- 906		
041	40	"	- 505		
042	41		- 305		
043	42		- 102		
044	43		- 104		
045	44		- 106		
046	45		- 108		
047	46		- 101		
048	47		- 206		
049	48		- 200 wks Teacher		
050	49		- 400 wks Teacher		
051	50		- box wks room		
052	51		- Cafeteria		
053	52		- Hilem office		
↓ 054	53		- copy room		

CHAIN OF CUSTODY SIGNATURE	
RELINQUISHED BY: DATE/TIME: 3-28-24	RECEIVED BY: Marissa Manchaca DATE/TIME: 3/28/24 9AM

RELINQUISHED BY: 3/3 DATE/TIME:	RECEIVED BY: DATE/TIME:
CHAIN OF CUSTODY (cont.)	PAGE_____ OF_____
LOFLIN JOB #:	CLIENT: Humble ISD
CLIENT JOB:	CLIENT PO:

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
389055	54	Black floor mesh	- Office	R/R	
389056	55		- office	Black room	
057	56		- Clinic		
058	57		- 204		
059	58		- Media Production - library		
060	59	Yellow mesh + tile	- Front office South side		
061	60	"	" - Front office North side		
062	61	"	" - Principal office area		
063	62	"	" - Stage Stelage		
064	63	"	" - Stage		
065	64	Black floor mesh	- Seminar work room		
066	65		- Principals		
067	66	"	- ~~library offices~~		
068	67	Yellow mesh	- MTS Office		
069	68		- Conference		
070	69		- Principal Assistant		
071	70	Black mesh + tile	- 3D Printer room		
072	71	"	" - Dark room		
073	72	Yellow mesh	- Middle office		

CHAIN OF CUSTODY SIGNATURE

RELINQUISHED BY: DATE/TIME: 3-28-24	RECEIVED BY: Marissa Manohade DATE/TIME: 3/28/24 9AM

LOFLIN ENVIRONMENTAL SERVICES, INC.

February 13, 2024

Ms. Leigh Ann Johnson
Humble ISD Support Services Division
P.O. Box 2000
Humble, Texas 77347

AHERA ASBESTOS INSPECTION(ADDITIONS/RENOVATIONS)
RIVERWOOD MIDDLE SCHOOL
2910 HIGH VALLEY DR.
HUMBLE, TEXAS

INTRODUCTION

Loflin Environmental Services, Inc. performed an EPA required AHERA inspection of the Riverwood Middle School building, located at 2910 High Valley Dr. in Humble, Texas on January 30, 2024. The inspection was performed by Mr. Michael Hendrix & Mathew Songster, an EPA accredited and Texas DSHS licensed asbestos inspector in general accordance with the requirements of 40 CFR Part 763, Subpart E, Section 763.85(b).

The purpose of the inspection was to:

- Identify all friable and non-friable asbestos containing materials.
- Observe and touch all suspect materials, identifying those materials, and either sampling or assuming suspect materials to contain asbestos.
- Sample locations will be documented on a legible drawing of school building.
- Any materials resulting as asbestos containing will be documented on a drawing and quantified.
- A condition assessment will be provided for all asbestos containing materials.

LIMITATIONS

Inaccessible areas, such as wall cavities, pipe chases, flooring under carpeting, and above sheetrock or plaster ceilings and outside the building do not fall within the scope of an AHERA asbestos inspection.

FACILITY DESCRIPTION

The Riverwood Middle School consists of an approximately 138,000 square foot one-story building, which was constructed in 1991. The building construction consists of a steel beam frame with brick veneer over a concrete foundation. The interior walls are

sheetrock. The floors are covered with ceramic floor tile, vinyl floor tile, floor coating or carpet. The ceilings consist of sheetrock and lay-in ceiling tile. Heating and air conditioning are supplied by HVAC units and distributed through fabricated sheet metal ducts with fiberglass insulation.

HOMOGENOUS MATERIALS

- Carpet glue
- 12” x 12” Gray Floor Tile
- Cove base mastic
- Wallboard system
- 2’ x 2’ Ceiling tile
- 1’ x1’ Ceiling tile
- Spray-on fire proofing
- Chill water supply and return
- Hot water supply and return
- Domestic water line
- HVAC insulation
- Gray duct mastic
- Vapor barrier mastic
- Expansion joint caulking
- Vent caulking
- Exterior door caulking
- Plaster texture on eve
- Roof cap caulking

SUMMARY OF FINDINGS

Based on laboratory analysis, none of the sampled materials were found to contain asbestos.
*****NO CORE ROOF SAMPLES TAKEN DUE TO TPO ROOF COVER*****

RECOMMENDATIONS

Humble I.S.D. must maintain a copy of this report with the Asbestos Operations and Maintenance (O & M) file and at the location of Riverwood Middle School. Any suspect materials discovered during renovation or demolition activities that were not addressed in this report should be promptly tested for asbestos content by a Texas DSHS licensed asbestos inspector.

A listing of homogeneous materials that were sampled and bulk sample locations with a drawing of the school building is included in this report.

Should you have any questions regarding this report, please contact us at (713) 521-3300

Kind Regards,

Michael Hendrix
Texas DSHS Inspector #602838

HOMOGENEOUS MATERIALS/BULK SAMPLE LOCATIONS

- **Carpet glue**
  - 01 – Music 103
  - 02 – Music 903
  - 03 - Music 904
- **12” x 12” Gray floor tile**
  - 04 – Music 103
  - 05 – Music 903
  - 06 – Music 903
- **Cove base mastic**
  - 07 – Music 903
  - 08 – Music 903
  - 09 – Music 904
- **Wallboard system**
  - 10 – IT 902
  - 11 – IT 902
  - 12 – IT 902
  - 13 – Room 103
  - 14 – Room 103
  - 15 – Room 103
  - 16 – Room 103
- **2’ x 2’ Ceiling tile**
  - 17 – Music 103
  - 18 – Music 904
  - 19 – Hall near 904
- **1’ x 1’ Ceiling tile**
  - 20 – Music 903
  - 21 – Music 904
  - 22 – Music 904
- **Spray-on fire proofing**
  - 23 – Music 903
  - 24 – Music 903
  - 25 – Music 904
  - 26 – Music 904

27– 100 Hallway
28 – Room 103
29 – Room 103

- **Chill water supply**

30 – Band hall
31 – Band hall
32 – 100 Hallway

- **Chill water return**

33 – Band hall
34 – Band hall
35 – 100 Hallway

- **Hot water supply**

36 – Band hall
37 – 100 Hallway
38 – Room 103

- **Hot water return**

39 – Band hall
40 – 100 Hallway
41 – Room 103

- **Domestic water line**

42 – Band hall
43 – 100 Hallway
44 – 100 Hallway

- **HVAC insulation**

45 – Band hall
46 – 100 Hallway
47 – IT 902

- **Gray duct mastic**

48 – Room 103
49 – Room 103
50 – Room 103

- **Vapor barrier mastic**

51 – Rear of building

- **Expansion joint caulking**

52 – rear of building

- **Vent caulking**

53 – Rear of building

- **Door caulking**

54 – Rear of building

- **Plaster eve**

55 – Rear exit

- **Roof cap caulking**

56 – east side roof

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NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-28
Project Name: RIVERWOOD MIDDLE SCHOOL, 2910 HIGH VALLEY DR., HUMBLE, TX

Date Received: 01/31/2024
Date Analyzed: 02/12/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385566	01	BLACK, TARRY HOMOGENEOUS (CARPET MASTIC)		NONE DETECTED	10% CELLULOSE TAR
L385567	02	BLACK, TARRY HOMOGENEOUS (CARPET MASTIC)		NONE DETECTED	10% CELLULOSE TAR
L385568	03	BLACK, TARRY HOMOGENEOUS (CARPET MASTIC)		NONE DETECTED	10% CELLULOSE TAR
L385569	04	BEIGE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	10% CELLULOSE TAR
L385570	05	BEIGE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	10% CELLULOSE TAR
L385571	06	BEIGE, GRANULAR NONHOM (FLOOR TILE)		NONE DETECTED	CALCITE, VINYL, QUARTZ
		BLACK, TARRY (MASTIC)		NONE DETECTED	10% CELLULOSE TAR

Laboratory Manager

*Asbestos-containing materials - The type and percentage of various fibrous components was determined by the microscopist in accordance with the U.S. Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", as found in 40 CFR, Part 763, Subpart E, Appendix E and the "Method For The Determination Of Asbestos In Bulk Samples" EPA 600/R-93/116, July 1993.
Departures from the test method: **None**
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Date Received: 01/31/2024
Date Analyzed: 02/12/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385572	07	BEIGE, GUMMY HOMOGENEOUS (COVE BASE MASTIC)		NONE DETECTED	OTHER
L385573	08	BEIGE, GUMMY HOMOGENEOUS (COVE BASE MASTIC)		NONE DETECTED	OTHER
L385574	09	BEIGE, GUMMY HOMOGENEOUS (COVE BASE MASTIC)		NONE DETECTED	OTHER
L385575	10	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% CELLULOSE OTHER
L385576	11	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% CELLULOSE OTHER
L385577	12	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% CELLULOSE OTHER

Laboratory Manager

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Project No: 62-23-28
Project Name: RIVERWOOD MIDDLE SCHOOL, 2910 HIGH VALLEY DR., HUMBLE, TX

Date Received: 01/31/2024
Date Analyzed: 02/12/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385578	13	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% CELLULOSE OTHER
L385579	14	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% CELLULOSE OTHER
L385580	15	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% CELLULOSE OTHER
L385581	16	WHITE, POWDERY NONHOM (JOINT COMPOUND)		NONE DETECTED	CALCITE, QUARTZ, MICA, OTHER
		WHITE, CHALKY (SHEETROCK)		NONE DETECTED	5% CELLULOSE OTHER
L385582	17	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	40% CELLULOSE 30% MINERAL WOOL PERLITE, OTHER

Laboratory Manager

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Date Received: 01/31/2024
Date Analyzed: 02/12/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385583	18	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	40% CELLULOSE 30% MINERAL WOOL PERLITE, OTHER
L385584	19	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	40% CELLULOSE 30% MINERAL WOOL PERLITE, OTHER
L385585	20	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	80% MINERAL WOOL 10% CELLULOSE OTHER
L385586	21	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	80% MINERAL WOOL 10% CELLULOSE OTHER
L385587	22	WHITE, FIBROUS HOMOGENEOUS (CEILING TILE)		NONE DETECTED	80% MINERAL WOOL 10% CELLULOSE OTHER
L385588	23	TAN, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	30% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385589	24	TAN, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	30% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385590	25	TAN, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	30% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385591	26	TAN, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	30% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE

Laboratory Manager

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Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385592	27	TAN, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	30% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385593	28	TAN, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	30% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385594	29	TAN, FIBROUS HOMOGENEOUS (FIREPROOFING)		NONE DETECTED	30% CELLULOSE 15% GLASS FIBERS CALCITE, VERMICULITE
L385595	30	BEIGE, GUMMY HOMOGENEOUS (CWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385596	31	BEIGE, GUMMY HOMOGENEOUS (CWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385597	32	BEIGE, GUMMY HOMOGENEOUS (CWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385598	33	WHITE, GUMMY HOMOGENEOUS (CWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385599	34	WHITE, GUMMY HOMOGENEOUS (CWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385600	35	WHITE, GUMMY HOMOGENEOUS (CWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER

Laboratory Manager

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Project No: 62-23-28
Project Name: RIVERWOOD MIDDLE SCHOOL, 2910 HIGH VALLEY DR., HUMBLE, TX

Date Received: 01/31/2024
Date Analyzed: 02/12/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385601	36	WHITE, GUMMY HOMOGENEOUS (HWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385602	37	WHITE, GUMMY HOMOGENEOUS (HWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385603	38	WHITE, GUMMY HOMOGENEOUS (HWS MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385604	39	WHITE, GUMMY HOMOGENEOUS (HWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385605	40	WHITE, GUMMY HOMOGENEOUS (HWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385606	41	WHITE, GUMMY HOMOGENEOUS (HWR MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385607	42	WHITE, GUMMY HOMOGENEOUS (DOM. WATER LINE MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385608	43	WHITE, GUMMY HOMOGENEOUS (DOM. WATER LINE MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385609	44	WHITE, GUMMY HOMOGENEOUS (DOM. WATER LINE MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER

Laboratory Manager

*Asbestos-containing materials - The type and percentage of various fibrous components was determined by the microscopist in accordance with the U.S. Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", as found in 40 CFR, Part 763, Subpart E, Appendix E and the "Method For The Determination Of Asbestos In Bulk Samples" EPA 600/R-93/116, July 1993.
Departures from the test method: **None**
The above test report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
Analysis results on this test report pertain only to those materials tested.
Disclaimers: Asbestos content is quantified using Calibrated Visual Estimate. PLM analysis has been known to be inaccurate for materials with low concentrations of asbestos. Negative PLM results cannot be guaranteed. LES recommends using TEM analysis for materials reported as <1% or none detected.

Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
(713) 521-3300 Fax (713)523-0829

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-28
Project Name: RIVERWOOD MIDDLE SCHOOL, 2910 HIGH VALLEY DR., HUMBLE, TX

Date Received: 01/31/2024
Date Analyzed: 02/12/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385610	45	WHITE, GUMMY HOMOGENEOUS (HVAC INSUL. MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385611	46	WHITE, GUMMY HOMOGENEOUS (HVAC INSUL. MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385612	47	WHITE, GUMMY HOMOGENEOUS (HVAC INSUL. MASTIC)		NONE DETECTED	3% WOLLASTONITE OTHER
L385613	48	DK. GRAY, GUMMY HOMOGENEOUS (HVAC DUCT MASTIC)		NONE DETECTED	3% CELLULOSE CALCITE, OTHER
L385614	49	DK. GRAY, GUMMY HOMOGENEOUS (HVAC DUCT MASTIC)		NONE DETECTED	3% CELLULOSE CALCITE, OTHER
L385615	50	DK. GRAY, GUMMY HOMOGENEOUS (HVAC DUCT MASTIC)		NONE DETECTED	3% CELLULOSE CALCITE, OTHER
L385616	51	BLACK, TARRY HOMOGENEOUS (VAPOR BARRIER MASTIC)		NONE DETECTED	TAR, OTHER
L385617	52	WHITE, RUBBERY HOMOGENEOUS (EXPANSION JOINT CAULKING)		NONE DETECTED	OTHER
L385618	53	WHITE, RUBBERY HOMOGENEOUS (VENT CAULKING)		NONE DETECTED	OTHER

Laboratory Manager

*Asbestos-containing materials - The type and percentage of various fibrous components was determined by the microscopist in accordance with the U.S. Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", as found in 40 CFR, Part 763, Subpart E, Appendix E and the "Method For The Determination Of Asbestos In Bulk Samples" EPA 600/R-93/116, July 1993.
Departures from the test method: **None**
The above test report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
Analysis results on this test report pertain only to those materials tested.
Disclaimers: Asbestos content is quantified using Calibrated Visual Estimate. PLM analysis has been known to be inaccurate for materials with low concentrations of asbestos. Negative PLM results cannot be guaranteed. LES recommends using TEM analysis for materials reported as <1% or none detected.

Loflin Environmental Services, Inc. 2020 Montrose Blvd., Houston, Texas 77006
(713) 521-3300 Fax (713)523-0829

LOFLIN

NVLAP 10-2044
TDH Lab 30-0031

Report of Bulk Sample Analysis For Asbestos Identification

Polarized Light Microscopy (PLM)
EPA 600/R-93/116, July 1994
40 CFR, Part 763, Subpart E, Appendix E

Client: HUMBLE ISD
Client Address: PO BOX 2000, HUMBLE, TX 77347
Project No: 62-23-28
Project Name: RIVERWOOD MIDDLE SCHOOL, 2910 HIGH VALLEY DR., HUMBLE, TX

Date Received: 01/31/2024
Date Analyzed: 02/12/2024

Lab Number	Field Number	Sample Description (Components)	Sample Location	Asbestos Detected	Additional Constituents
L385619	54	BLACK, RUBBERY HOMOGENEOUS (DOOR CAULKING)		NONE DETECTED	OTHER
L385620	55	WHITE, GRANULAR HOMOGENEOUS (PLASTER TEXTURE)		NONE DETECTED	AGGREGATE, OTHER
L385621	56	RED, GUMMY HOMOGENEOUS (ROOF CAP CAULKING)		NONE DETECTED	OTHER

Laboratory Manager

*Asbestos-containing materials - The type and percentage of various fibrous components was determined by the microscopist in accordance with the U.S. Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples", as found in 40 CFR, Part 763, Subpart E, Appendix E and the "Method For The Determination Of Asbestos In Bulk Samples" EPA 600/R-93/116, July 1993.
Departures from the test method: **None**
The above test report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
Analysis results on this test report pertain only to those materials tested.
Disclaimers: Asbestos content is quantified using Calibrated Visual Estimate. PLM analysis has been known to be inaccurate for materials with low concentrations of asbestos. Negative PLM results cannot be guaranteed. LES recommends using TEM analysis for materials reported as <1% or none detected.

L385566-385621

V3

Environmental Services, Inc.
2020 MONTROSE, Ste. 100 – HOUSTON, TX 77006

Client: Humble ISD

Contact:

Client Address:

Phone/Email:

Lab Project # 62-23-28

Project Location: Riverwood Middle School
2910 High Valley Dr., Humble, TX

Date: 1-30-24

PLM ANALYSIS TURNAROUND
☐ Immediate (< 3 Hours) ☐ Same Day ☐ 1 Day
☒ 2 Day ☐ 3 Day ☐ 1 Week

POINT COUNT (400 Point <.25%) TURNAROUND
☐ Immediate (< 3 Hours) ☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day ☐ 1 Week

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
385566	01	Carpet Sive
385567	02	"
568	03	"
569	04	12x12 Grey floor tile
570	05	"
571	06	"
572	07	Cove base Mastic
573	08	"
574	09	"
575	10	~~Gyp texture~~ wallboard system
576	11	
577	12	
578	13	
579	14	
580	15	
581	16	"
582	17	2x2 ceiling tile
583	18	"
584	19	"
585	20	1x1 ceiling tile

LAB NUMBER	FIELD NUMBER
—	~~Mastic~~ 103
—	Music 903
—	Music 904
—	~~Mastic~~ 103
—	Music 903
—	Music 903
—	Music 903
—	Music 903
—	Music 904
—	IT 902
—	IT 902
—	IT 902
—	Room 103
—	" "
—	" "
—	" "
—	~~Mastic~~ 103
—	Music 904
—	Hall Near 904
—	Music 903

CHAIN OF CUSTODY SIGNATURE

RELINQUISHED BY: [signature]
DATE/ TIME: 1-30-24
RECEIVED BY: Marissa Manchaca
DATE/ TIME: 1/31/24 1:20pm

RELINQUISHED BY:
DATE/ TIME:
RECEIVED BY:
DATE/ TIME:

RELINQUISHED BY: 8/3 DATE/TIME:	RECEIVED BY: DATE/TIME:
CHAIN OF CUSTODY (cont.)	PAGE_____ OF_____
LOFLIN JOB #:	CLIENT:
CLIENT JOB:	CLIENT PO:

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
385586	21	1"	MUSIC	904	
385587	22	"	MUSIC	904	
588	23	Splash fire Proofing	MUSIC	903	
589	24	"	MUSIC	903	
590	25	"	MUSIC	704	
591	26	"	MUSIC	704	
592	27	"	100 Hallway		
593	28	"	Room	103	
594	29	"	"	"	
595	30	Chill water supply	Band Hall		
596	31	"	"	"	
597	32	"	100 Hall		
598	33	Chill water return	Band Hall		
599	34	"	"	"	
600	35	"	100 Hall		
601	36	Hot water supply	Band Hall		
602	37	"	100 Hall		
603	38	"	Room 105		
604	39	Hot water return	Band Hall		
605	40	"	100 Hall		
606	41	"	Room 103		
607	42	Domestic water line	Band Hall		
608	43	"	100 Hall		
609	44	"	"	"	
610	45	HVAC insulation - Unit	~~Band~~ Band Hall		
611	46	"	~~Hall~~ 100 Hall		
612	47	"	IT 902		
613	48	Gray HVAC Duct Mastic	Room 103		
614	49	"	"	"	
615	50	"	"	"	
616	51	Vapor barrier mastic			
617	52	Expansion joint (caulking)			
618	53	Vent caulking			

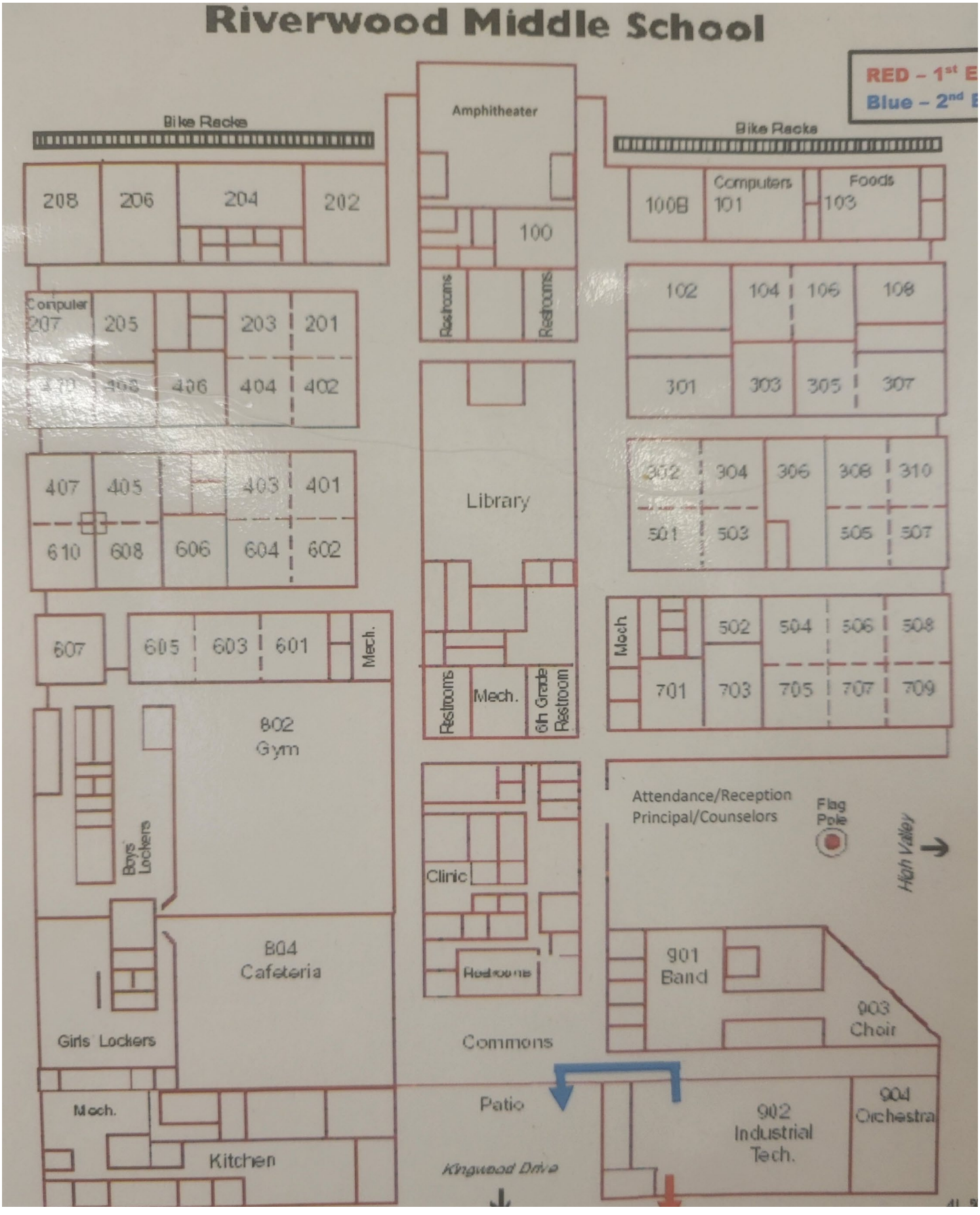
CHAIN OF CUSTODY SIGNATURE

RELINQUISHED BY: DATE/TIME:	RECEIVED BY: Marissa Manchade DATE/TIME: 1/31/24 1:20pm

RELINQUISHED BY: DATE/TIME:	RECEIVED BY: DATE/TIME:
CHAIN OF CUSTODY (cont.) 3/3	PAGE_____ OF_____
LOFLIN JOB #:	CLIENT:
CLIENT JOB:	CLIENT PO:

LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION	LAB NUMBER	FIELD NUMBER	SAMPLE DESCRIPTION
385619	54	Door Caulking			
385620	55	Plaster tkt EVE			
385621	56	roof cap Caulking			

CHAIN OF CUSTODY SIGNATURE	
RELINQUISHED BY: DATE/TIME:	RECEIVED BY: Marissa Manchado DATE/TIME: 1/31/24 1:20PM



LOFLIN Environmental Services, Inc. 2020 Montrose Blvd., Suite 100 Houston, Tx 77006 (713)351-1301/(713)494-4442	**Approximate Sample Location Diagram** ***Client: Humble ISD**	**Riverwood Middle School** **2910 High Valley Dr.** **Humble, Texas** **Job # 62-23-28**

Salas O'Brien

10930 W. Sam Houston Pkwy N | Suite 900
Houston, Texas 77064
281.664.1900 | www.salasobrien.com

April 24, 2025

Project: Humble ISD- Creekwood MS and Riverwood MS Renovations and Additions

04/24/2025

Prepared by: Salas O'Brien Engineers
10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064

SOBE Project No.: 2022-05088

PART A **CHANGES TO PRIOR ADDENDUM**

1. None

PART B **CHANGES TO THE PROJECT MANUAL**

1. 27 5000 BUILDING INTERCOMMUNICATIONS SYSTEM
   a. Part 2-Products/2.1 Equipment/ Add the following:
      i. Paragraph A. Existing headend equipment
         1. Creekwood: Atlas Sounds 400
         2. Riverwood: Bogen GS 250
      ii. Original paragraphs A-E are re-lettered to paragraphs B-F.

PART C **CHANGES TO THE DRAWINGS**

Creekwood MS

1. T0.00 – TECHNOLOGY NOTES AND LEGENDS
   a. Revise Video Surveillance Legend Notes and Symbols

Riverwood MS

2. T0.00 – TECHNOLOGY NOTES AND LEGENDS
   a. Revise Video Surveillance Legend Notes and Symbols

PART D **RE-ISSUED DRAWING SHEET** (30"X42")

Creekwood MS

1. T0.00 – TECHNOLOGY NOTES AND LEGENDS

Riverwood MS

2. T0.00 – TECHNOLOGY NOTES AND LEGENDS

PART E **NEW DRAWINGS SHEETS** (30"X42")

1. None

PART G **QUESTIONS/CLARIFICATIONS**

1. None

PART H. **ATTACHMENTS**

1. None

END OF ADDENDUM 2

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
#AP	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR #*	ACCESS CONTROL PROXIMITY CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS #*	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER. *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNT INTERCOM SPEAKER, LAY-IN CEILING.	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNT INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNT, RECESSED EXTERIOR INTERCOM SPEAKER.	+10' AFF UNO	CONTRACTOR PROVIDED	
S5	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S6	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE	CEILING	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK.	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
LMB ▼	LARGE MESSAGE BOARD, POE+ POWERED	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5, #6
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5, #6
	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5, #6
	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5, #6
	SYMBOL INDICATES THAT A VIDEO SURVEILLANCE DEVICE IS WALL MOUNTED			

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.
6. VIDEO SURVEILLANCE CAMERAS ARE OFOI.

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
◯X	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
S,	LOCAL SOUND SYSTEM SPEAKER P: POLE MOUNTED SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C.	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MD	CEILING MOUNTED MOTION DETECTOR	CEILING		
MD	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
●	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

FIRE ALARM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAA	FIRE ALARM ANNUNCIATOR PANEL

NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

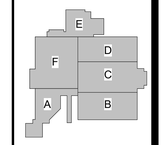
SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.
'D*'	EXISTING CABLING AND FACEPLATE TO BE REMOVED. BACKBOX AND CONDUIT TO REMAIN. EXISTING OUTLET TO BE RECABLED PER TECHNOLOGY SCOPE NOTES ON FLOOR PLANS. CONTRACTOR TO INSTALL NEW FACEPLATE.

Revision / 5 — Date 04-24-25 — Addendum 2

Project:
CREEKWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
3603 W LAKE HOUSTON PKWY, KINGWOOD, TX 77339
FOR
HUMBLE ISD
KINGWOOD, TX

BRADLEY KALMANS — 80219 — LICENSED PROFESSIONAL ENGINEER — 04-24-2025



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TECHNOLOGY NOTES AND LEGENDS

PACKAGE | VOLUME

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-05088-00

Job No. 1821-13-01
Drawn By: NY
Date: 04.01.2025
Sheet No. T0.00

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
*# ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT.	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
*# ⊕	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR *#	ACCESS CONTROL PROXIMITY CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS *#	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNT INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNT INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNT INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNT,RECESSED EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
S5	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S6	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE	CEILING	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
LMB ▼	LARGE MESSAGE BOARD, POE+ POWERED	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5, #6
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5, #6
	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5, #6
	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5, #6
⊢	SYMBOL INDICATES THAT A VIDEO SURVEILLANCE DEVICE IS WALL MOUNTED			

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE.
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.
6. VIDEO SURVEILLANCE CAMERAS ARE OFOI.

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
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5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS *	LOCAL SOUND SYSTEM SPEAKER P: POLE MOUNTED SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
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5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDF	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX.	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
M	CEILING MOUNTED MOTION DETECTOR	CEILING		
M	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
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2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY.
'WG'	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
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FIRE ALARM

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL
FAA	FIRE ALARM ANNUNCIATOR PANEL

NOTES:
1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

Revision / Date
4 04-24-25 Addendum 2

Project:
RIVERWOOD MIDDLE SCHOOL ADDITIONS & RENOVATIONS
2910 HIGH VALLEY DR, HUMBLE, TX 77345
FOR
HUMBLE ISD
KINGWOOD, TX

BRADLEY KALMANS
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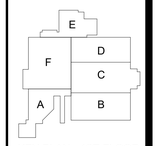
STATE OF TEXAS
04-24-2025



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