

**CITY OF SOUTH LEBANON, OHIO
RESOLUTION NO. 2025-31**

**A RESOLUTION AUTHORIZING THE MAYOR AND DIRECTOR OF FINANCE TO
ENTER INTO AN AGREEMENT WITH ALT & WITZIG ENGINEERING, INC. FOR
CONSULTING ENGINEERING SERVICES FOR THE RIVER CORRIDOR
SANITARY SEWER EXTENSION PROJECT, AND DECLARING AN EMERGENCY**

WHEREAS, the City of South Lebanon is in the process of undertaking the River Corridor Sanitary Sewer Extension Project, which will require specialized testing and inspections as part of the Project; and,

WHEREAS, the City has solicited a proposal from the consulting engineering firm of Alt & Witzig to perform the construction of said quality control testing and special inspection services as required by project plans, specifications, and the Ohio Building Code; and,

WHEREAS, immediate action is required to approve said Agreement and to be in effect during the final design phase of the Project and such action is necessary to preserve the public peace, health, safety or welfare of the City.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of South Lebanon, at least two-thirds of all members elected thereto concurring:

Section 1. That the Council authorizes the Mayor and Director of Finance to execute an Agreement with Alt & Witzig Engineering for consulting engineering services for the River Corridor Sanitary Sewer Extension Project for an amount not to exceed \$21,400, as attached hereto.

Section 2. That the recitals contained within the Whereas Clauses set forth above are incorporated by reference herein.

Section 3. That this Resolution is hereby declared to be an emergency measure in accordance with Section 731.30 of the Ohio Revised Code for the immediate preservation of public peace, health, safety and general welfare; and this Resolution shall be in full force and effective immediately upon its passage.

Section 4. That it is found and determined that all formal actions of the Council concerning and relating to passing this Resolution were adopted in an open meeting of Council in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

Resolution No. 2025-31
Page 2

Adopted this 7th day of August 2025.

Linda S. Burke
Linda S. Burke, Mayor

Attest: Jennifer O'Brien
Jennifer O'Brien, Clerk of Council

Rules Suspended:	<u>8/7/25</u> (if applicable)
First Reading:	<u> </u>
Second Reading:	<u> </u>
Vote:	<u>6</u> Yeas <u> </u> Nays
Effective Date:	<u>8/7/25</u>

Fiscal Review:

Tina Williams
Director of Finance

By: Tina Williams
Date: 8/8/25

Prepared by and approved as to form:

Chase T. Kirby
Chase T. Kirby
Law Director
City of South Lebanon, Ohio

MASTER AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES

This MASTER AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES (the "Agreement") made as of the date stated below, between the City of South Lebanon, Ohio, 10 N. High Street, South Lebanon, OH 45065 (the "City") and Alt & Witzig Engineering, Inc., organized under the laws of the State of Indiana as a Corporation, whose address is 6205 Schumacher Park Drive, West Chester, Ohio 45069 ("Consultant").

The City and the Consultant in consideration of their mutual covenants herein agree, in respect of the performance of professional consulting services by Consultant and the payment for those services by the City, to the following terms, conditions and obligations.

SECTION 1 - BASIC SERVICES OF CONSULTANT

- 1.1 The Consultant agrees to provide consulting engineering products and/or services (the "Basic Services") relative to construction testing and special inspections for the River Corridor Sanitary Sewer Project, all in accordance with the scope of work described in Exhibit 1 herein.

SECTION 2 - ADDITIONAL SERVICES OF CONSULTANT

- 2.1 If authorized in writing by the City and Consultant, Consultant shall furnish or obtain from others Additional Services of certain types, which are not considered normal or customary Basic Services. Such additional services are particularly set forth, defined and identified, in the attachment hereto, and made a part of this Agreement as Exhibit 1-A.

SECTION 3 - THE CITY'S RESPONSIBILITIES

The City shall:

- 3.1. Provide all criteria and full information for the Project, including objectives and constraints, space, capacity and performance requirements, flexibility and expandability, and any budgetary limitations.
- 3.2. Assist Consultant by providing all available information pertinent to the Basic Services in the possession of the City including any previous reports and any other data relative to the Project.
- 3.3. Furnish Consultant, as required for performance of Consultant's Basic Services, data prepared by or services of others, as applicable.
- 3.4. Arrange for access to and make all provisions for Consultant to enter upon public and private property as required for Consultant to perform the scope of services.
- 3.5. Examine all studies, reports, sketches, drawings, specifications, proposals and other documents presented by Consultant, obtain advice of an attorney, insurance counselor and other Consultants as the City deems appropriate for such

examination and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of Consultant.

- 3.6. Furnish approvals and permits from all governmental authorities having jurisdiction over the Basic Services and such approvals and consents from others as may be necessary for completion of the Basic Services.
- 3.7. Provide such accounting, insurance counseling and such legal services as may be required for the Basic Services, such legal services as the City and Consultant may require or Consultant may reasonably request with regards to legal issues pertaining to the Basic Services.
- 3.8. Designate in writing the person or persons to act as the City's representative with respect to the services to be rendered under this Agreement. Such person shall have authority to transmit instructions, receive information, interpret and define the City's policies and decisions with respect to materials, equipment, elements and systems pertinent to Consultant's services.
- 3.9. Give prompt written notice to Consultant whenever the City observes or otherwise becomes aware of any development that affects the scope or timing of Consultant's services, or any defect in the work of any third party.
- 3.10. Furnish, or direct Consultant to provide, upon approval of the City, necessary Additional Services as stipulated in accordance with Section 2 of this Agreement or other services as required. (Intentionally Omitted)
- 3.11. Bear all costs incident to compliance with the requirements of this Section 3.

SECTION 4 - PERIOD OF SERVICE

- 4.1. The provisions of this Section 4 and the various rates of compensation for Consultant's services provided for elsewhere in this Agreement have been agreed to in anticipation of the orderly and continuous progress of the Basic Services.
- 4.2. Upon receipt of a written notice to proceed from the City, Consultant shall proceed with the performance of the services called for in a task order to be issued at a future date.
- 4.3. Consultant's services to be rendered thereunto shall be considered complete upon final payment issued by City.
- 4.4. If the City has requested significant modifications or changes in the extent of the Project, the time of performance of Consultant's services and his/her/its various rates of compensation shall be adjusted appropriately, upon approval of the City and the Consultant of a written Schedule.

SECTION 5 - PAYMENTS TO CONSULTANT

5.1 Methods of Payment for Services and Expenses of CONSULTANT

- 5.1.1. For Basic Services. The City shall pay Consultant for Basic Services rendered under Section 1 as follows:

The price for the products and/or services provided herein and the method of payment thereto shall be on a time-and-materials basis in accordance with the hourly rate established in Exhibit "1". **THE TOTAL PRICE FOR THE BASIC SERVICES SHALL NOT EXCEED \$21,400.00.** The City shall not be responsible for the cost of any Basic Services that exceeds the aforementioned not-to-exceed price without prior written authorization from the City.

- 5.1.2 For Additional Services. The City shall pay Consultant for Additional Services rendered set forth in Exhibit 1 based on the hourly rates for Professional Consulting Services, as particularly set forth, defined and identified, in the attachment hereto, and made a part of this Agreement as Exhibit 1.

5.2 Times of Payments.

- 5.2.1. Consultant shall submit itemized statements for Basic and Additional Services rendered. The City shall make prompt payments in response to Consultant's itemized statements by mailing via ordinary U.S. mail such payment no later than five (5) business days after the City Council's regularly scheduled Council Meeting on the 3rd Thursday of each month.

5.3 Other Provisions Concerning Payments.

- 5.3.1. If the City fails to make any payment due Consultant for services and expenses within forty-five (45) days after receipt of Consultant's itemized statement therefore, the amounts due Consultant shall include a charge at the rate of 1% per month from said 45th day, and in addition, Consultant may, after giving seven days, written notice to the City, suspend services under this Agreement until he/she has been paid in full all amounts due for services and expenses.
- 5.3.2. In the event of termination by the City under paragraph 6.1 upon the completion of any phase of the Basic Services, progress payments due Consultant for all services satisfactorily rendered through such phase shall constitute total payment for such services.
- 5.3.3. Records of Consultant's Salary Costs pertinent to Consultant's compensation under this Agreement will be kept in accordance with generally accepted accounting practices. Copies will be made available to the City upon request prior to final payment for Consultant's services.

5.4 Definitions

- 5.4.1. The Payroll Costs used as a basis for payment means salaries and wages (basic and incentive) paid to all personnel engaged directly on the Project, including, but not limited to the following; Consultant's architects, surveyors, designers, draftsmen, specification writers, estimators, all other technical personnel, stenographers, typists and clerks; plus the cost of customary and statutory benefits including, but not limited to, social security contributions, unemployment, excise and payroll taxes,

workers' compensation, health and retirement benefits, sick leave, vacation and holiday pay applicable thereto.

SECTION 6 - GENERAL CONSIDERATIONS

6.1 Termination.

The obligation to provide services under this Agreement may be terminated by either party for no cause upon seven (7) days' written notice by certified mail, return receipt requested.

6.2 Reuse of Documents.

All documents prepared by Consultant pursuant to this Agreement are instruments of service as part of the Project. They are not intended or represented to be suitable for reuse by the City or others on extensions of the Project or any other project. Any reuse without written verification or adaptation by Consultant for the specific purpose intended will be at the City's risk and without liability or legal exposure to Consultant. Any verification or adaptation requested by the City to be performed by Consultant will entitle Consultant to further compensation at rates to be agreed upon by the City and Consultant.

6.3 Controlling Law and Venue

This Agreement is to be governed by the law of the State of Ohio. The venue for any disputes hereunder shall exclusively be the Warren County, Ohio Court of Common Pleas.

6.4 Successors and Assigns.

- 6.4.1. The City and Consultant each binds himself/herself and his/her partners, successors, executors, administrators, assigns and legal representatives to the other party, to this Agreement and to the partners, successors, executors, administrators, assigns and legal representatives of such other party, in respect to all covenants, agreements and obligations of this Agreement.
- 6.4.2. Neither the City nor Consultant shall assign, sublet or transfer any rights under or interest in (including, but without limitation, moneys that may become due or moneys that are due) this Agreement without the written consent of the other, except as stated in paragraph 6.4.1 and except to the extent that the effect of this limitation may be restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement. Nothing contained in this paragraph shall prevent Consultant from employing such independent consultants, associates and subcontractors, as he/she may deem appropriate to assist him/her in the performance of services hereunder.
- 6.4.3. Nothing herein shall be construed to give any rights or benefits hereunder to anyone other than the City and Consultant.

6.5 Modification or Amendment

No modification or amendment of any provisions of this Agreement shall be effective unless made by a written instrument, duly executed by the party to be bound thereby, which refers specifically to this Agreement and states that an amendment or modification is being made in the respects as set forth in such amendment.

6.6 Construction

Should any portion of this Agreement be deemed unenforceable by any administrative or judicial officer or tribunal of competent jurisdiction, the balance of this Agreement shall remain in full force and effect unless revised or terminated pursuant to any other section of this Agreement.

6.7 Waiver

No waiver by either party of any breach of any provision of this Agreement shall be deemed to be a further or continuing waiver of any breach of any other provision of this Agreement. The failure of either party at any time or times to require performance of any provision of this Agreement shall in no manner affect such party's right to enforce the same at a later time.

6.8 Relationship of Parties

The parties shall be independent contractors to each other in connection with the performance of their respective obligations under this Agreement.

6.9 Parties

Whenever the terms "the City" and "Consultant" are used herein, these terms shall include without exception the employees, agents, successors, assigns, and/or authorized representatives of the City and the Consultant.

6.10 Headings

Paragraph headings in this Agreement are for the purposes of convenience and identification and shall not be used to interpret or construe this Agreement.

6.11 Notices

All notices required to be given herein shall be in writing and shall be sent certified mail return receipt to the following respective addresses:

TO: The City of South Lebanon, Ohio
Attn. City Administrator
10 N. High Street
South Lebanon, OH 45065

Consultant: Alt & Witzig Engineering, Inc.
Attn. Eric Sperber
Address: 6205 Schumacher Park Drive
Address: West Chester, Ohio 45069

6.12 Insurance

Consultant shall carry comprehensive general and professional liability insurance, with no interruption of coverage during the entire term of this Agreement. Consultant further agrees that in the event that its comprehensive general or professional liability policy is maintained on a "claims made" basis, and in the event that this Agreement is terminated, Consultant shall continue such policy in effect for the period of any statute or statutes of limitation applicable to claims thereby insured, notwithstanding the termination of the Agreement. Consultant shall provide the City with a certificate of insurance evidencing such coverage, and shall provide thirty (30) days notice of cancellation or non-renewal to the City. Cancellation or non-renewal of insurance shall be grounds to terminate this Agreement. The insurance shall comply with all of the following provisions:

(a) The insurer shall have an AM Best rating of A- or better, unless otherwise agreed by the City in writing;

(b) The insurance coverage must have commercial general liability limit of \$1,000,000 per occurrence for bodily injury, personal injury and property damage and the minimum general aggregate shall be \$2,000,000;

(c) The insurance coverage must have professional liability (i.e. errors and omissions) limit of \$1,000,000 per occurrence.

(d) The automobile liability limit shall be at least \$500,000 per accident for bodily injury and property damage where applicable;

(e) The insurance coverage shall have Ohio stop gap employer's liability with a \$2,000,000 limit;

(f) The Consultant shall name the City, its elected and appointed officials, agents, employees and volunteers as additional insureds to all insurance policies with waiver of subrogation against the City, and shall furnish the City with certificates of insurance naming such individuals and entities as additional insureds. The coverage shall be primary to the additional insureds and not contributing with any other insurance or similar protection available to the additional insured's, whether available coverage is primary, contributing or excess, and shall provide the City with the same coverage and duty to defend as the primary coverage provides for Consultant;

The Consultant shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor; provided that all coverages for subcontractors shall be subject to all requirements stated herein; and

(g) Consultant shall carry statutory worker's compensation insurance and statutory employer's liability insurance as required by law and shall provide the City with certificates of insurance evidencing such coverage simultaneous with the execution of this Agreement.

SECTION 7 - SPECIAL PROVISIONS, EXHIBITS and SCHEDULES

7.1 This Agreement is subject to the following special provisions, if any:

7.1.1 None

7.2. The following Exhibits are attached to and made a part of this Agreement:

Exhibit "1"

SECTION 8 – DISPUTE RESOLUTION

Any and all controversies, disputes, disagreements, claims and demands of whatsoever kind or nature arising out of or relating in any way to this Agreement, alleged breaches thereof, and/or the parties' relationship shall: (i) first be submitted to mediation before a mediator mutually agreed upon, and if mediation is not successful, then; (ii) the parties may litigate the dispute subject to the jurisdiction and venue stipulation in Section 6, Paragraph 6.2 herein.

SECTION 9 – ENTIRE AGREEMENT

This Agreement, together with the Exhibits and schedules identified above constitute the entire agreement between the City and Consultant, and supersede all prior written or oral understandings. This Agreement and said Exhibits and schedules may only be amended, supplemented, modified or canceled by a duly executed written instrument, signed by all parties.

SECTION 10 – INDEMNIFICATION

Consultant will, to the extent allowed by law, indemnify and save the City harmless from loss, claims, expenses, causes of action, costs, damages, and other obligations including but not limited to the City's reasonable attorney fees, financial or otherwise, to the extent arising from (a) negligent, reckless, and errors or omissions by Consultant, its agents, employees, licensees, contractors, or subcontractors; and, (b) the failure of Consultant, its agents, employees, licensees, contractors, or subcontractors, to observe the applicable standard of care in providing services pursuant to this Agreement. Nothing in this Agreement shall require the Consultant to provide indemnification that would be in violation of the provisions found in Ohio Revised Code § 153.81.

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SECTION 11 – EXECUTION

CONSULTANT :

IN EXECUTION WHEREOF, Alt & Witzig Engineering, Inc., the Consultant herein, has caused this Agreement to be executed on the date stated below by _____ whose title is _____, pursuant to a Resolution or Consent Action authorizing such act.

SIGNATURE: _____

PRINTED NAME: _____

TITLE: _____

DATE: _____

CITY:

IN EXECUTION WHEREOF, the Council of the City of South Lebanon, Ohio, has caused this Agreement to be executed on the date stated below by its Mayor and its Director of Finance, pursuant to Resolution No. 2025 - 31.

SIGNATURE: Linda S. Burke

PRINTED NAME: Linda S. Burke

TITLE: Mayor

DATE: 7 August 2025

SIGNATURE: Petrina D. Williams

PRINTED NAME: Petrina D. Williams

TITLE: Director of Finance

DATE: 8/8/25

APPROVED AS TO FORM:

CHASE T. KIRBY
LAW DIRECTOR
CITY OF SOUTH LEBANON, OHIO

By: Chase T. Kirby

Date: 8/7/25


Alt & Witzig Engineering, Inc.

6205 Schumacher Park Drive • West Chester, Ohio 45069
 Ph: (513) 777-9890 • Fax: (513) 777-9070

May 16, 2025

City of South Lebanon
 10 N High Street
 South Lebanon, OH 45065
 ATTN: Harry Holbert, Public Works Director

RE: Construction Testing & Special Inspections
 River Corridor Sewer Extension & Control Building
 Bayou Street
 South Lebanon, Ohio

As requested, we would like to furnish you with our proposal to perform the construction quality control testing and special inspection services required for the above referenced project.

All inspections will be performed in accordance with project plans, specifications, and the Ohio Building Code. Based on the anticipated services required, and our experience with similar projects, our estimated fees have been included on the following page.

Testing & Inspection Services	Quantity	Estimated Fee
Control Building Area Soil Compaction & Proofrolls	8 Trips	\$4,500
Sewer Extension Backfill	15 Trips	\$7,200
Structure Foundations	3 Trips	\$2,000
Concrete & Reinforcing Steel	5 Trips	\$2,800
Framing	3Trips	\$2,500
Masonry	4 Trips	\$2,400
Estimated Total Testing & Inspection Fees:		\$21,400

These fees are estimated, based on a review of the available plans. Actual fees will be assessed in accordance with the attached unit rates. Please contact us if you would like to discuss in more detail our personnel and anticipated scope of work. We look forward to working with you on this project.

Sincerely,
 ALT & WITZIG ENGINEERING, INC.

Tobin C. Moore, P.E.
 Principal Engineer



2025 CONSTRUCTION TESTING & SPECIAL INSPECTION AGREEMENT

Pursuant to your request, Alt & Witzig Engineering, Inc. will provide Construction Testing & Special Inspection Services as required by project plans, specifications, and the Ohio Building Code. Inspections, laboratory testing, and engineering will be invoiced in accordance with the attached Unit Fee Schedule. Additional Services are available upon request.

Project Name: _____

Project Address: _____

APPROVAL & PAYMENT OF CHARGES – Invoices will be charged and sent to the account of:

Company: _____

Address: _____

Telephone: _____ Email: _____ PO#: _____

Signature: _____ Date: _____

Printed Name: _____ Title: _____

PAYMENT TERMS: Net 30 days. Invoices for completed work will be issued every month for continuous or extended projects unless otherwise agreed.

Invoices should be paid to: Alt & Witzig Engineering, Inc.
 4105 West 99th Street
 Carmel, IN 46032

Please note that Alt & Witzig Engineering, Inc. reserved the right to withhold all reports until such time we receive a signed Acceptance Agreement or with other written authorization referencing this AGREEMENT in its entirety. This agreement together with Alt & Witzig Engineering's Unit Fee Schedule constitute the entire agreement between the client and Alt & Witzig Engineering, Inc. and supersedes all prior written or oral understandings.



***Alt & Witzig Engineering 2025 Schedule of Fees
Construction Testing & Special Inspection Services***

Personnel	Unit Price	Unit
Engineering Technician (soil compaction, concrete, resteel, asphalt field)	\$48.00	HOURL
Special Inspector (foundations, fireproofing, PT, asphalt plant)	\$75.00	HOURL
Field Engineer/EIFS Inspections/SWPPP Inspections	\$95.00	HOURL
Project Manager/Project Engineer (engineering consultation, report/data review)	\$125.00	HOURL
Principal Engineer (special inspection coordination & engineering consultation)	\$165.00	HOURL
Floor Flatness Inspections	\$875.00	TRIP
AWS Structural Steel Technician/Framing Inspector	\$850.00	TRIP
Clerical/Electronic Report Distribution	NO CHARGE	
Equipment		
Foundation Soil Inspection Equipment	\$48.00	DAY
Nuclear Density Gauge	\$75.00	DAY
Air Meter/Unit Weight Equipment	\$65.00	DAY
Asphalt Density Gauge	\$125.00	DAY
Ultrasonic Testing Equipment	\$135.00	DAY
Anchor Bolt Pull Equipment	\$150.00	DAY
Laboratory Tests		
Compression Test of Concrete Cylinders – 4"x8"	\$16.00	EACH
Compression Test of Concrete Cylinders – 6"x12"	\$18.00	EACH
Compression Test of Mortar Cylinders – 3"x6"	\$14.00	EACH
Compression Test of Grout Prisms - 3.5"x3.5"x7"	\$20.00	EACH
Compression Test of Cubes - 2"x2"	\$14.00	EACH
Masonry Composite Prism Test (Set of 3)	\$525.00	SET
Flexural Test of Concrete Beams - 6"x6"x20"	\$52.00	EACH
Compressive Strength of Concrete Cores (Includes Saw Trimming)	\$85.00	EACH
Hot/Cold Weather Curing	\$125.00	MONTH
Specimen Break Results Before 7:00 a.m.	NO CHARGE	

*Alt & Witzig Engineering 2025 Schedule of Fees
Construction Testing & Special Inspection Services
(Continued)*

Laboratory Tests (continued)	Unit Price	Unit
Standard Proctor (ASTM D698/D1557)	\$185.00	EACH
One Point Verification Proctor	\$95.00	EACH
Grain Size Analysis (Sand & Gravel) (ASTM C136)	\$90.00	EACH
Aggregate Gradation Coarse and Fine	\$95.00	EACH
Organic Content	\$85.00	EACH
Classification (Cohesive Soils)	\$150.00	EACH
Sieve Analysis (ASTM D422)	\$95.00	EACH
Hydrometer with Moisture Content (ASTM D422/D2216)	\$125.00	EACH
Atterberg Limits (ASTM D4318)	\$145.00	EACH
Classification - Granular Soils (ASTM D422/D2216)	\$135.00	EACH
Asphalt Core Density	\$80.00	EACH
Asphalt Extraction	\$185.00	EACH
SFRM Density Tests	\$35.00	EACH
SFRM Bond Strength Tests	\$45.00	EACH

A 24 hour notice is preferred for scheduling field services. Field services scheduled less than 24 hours in advance are subject to Project Manager rates. Field services will be charged portal to portal from our West Chester, Ohio office, with a vehicle expense of \$0.75/mile. Project management, engineering oversight, & special inspection coordination will be billed monthly at 10% of the field and laboratory services. The normal workday is 7:00 a.m. to 5:30 p.m., overtime rates charged at 1.5 times the regular rate will be applicable for services performed outside of these hours, over 8 hours per day within this period, and on Saturdays, Sundays, and holidays.



Alt & Witzig Engineering, Inc.

Construction Materials Testing & Special Inspections

Alt & Witzig Engineering, Inc. is a team of engineering professionals who have over 45 years experience on major construction projects throughout the Midwest. Our firm has built a reputation as a leader in the industry by providing professional services in the most responsive and cost-effective manner. Our staff includes technically qualified personnel, which allows us to provide our clients with the highest quality service, while meeting required deadlines. The following is a summary of the field/laboratory testing and special inspection services provided by Alt & Witzig.

Cincinnati

6205 Schumacher Park Dr.
West Chester, OH 45069
(513)777-9890

Hebron

1020 Arbor Tech Drive
Hebron, KY 41048
(859)551-4944

Columbus

1825 O'Brien Road
Hilliard, OH 43228
(614)274-7428

Indianapolis

4105 West 99th Street
Carmel, IN 46032
(317)875-7000

Fort Wayne

208 East Collins Drive
Fort Wayne, IN 46825
(260)484-0813

Merrillville

1418 86th Place
Merrillville, IN 46410
(219)314-9028

Evansville

2315 A. Glenview Drive
Evansville, IN 47720
(812)422-4446

Certifications

AMRL
CCRL
ACI
OBBS
Army Corps of Engineers
ICC Structural Masonry
AWS Level I & II
ICC Fireproofing
Post-Tensioning
Nuclear Density Gauge
International Fire Council

Mass Earthwork & Backfill

- ✓ Structural Fill Placement Inspection
- ✓ Soil Density Testing by Nuclear Gauge
- ✓ Inspection of Subgrade Stability
- ✓ Laboratory Determination of Maximum Soil Density; ASTM D-698 & ASTM D-1557
- ✓ Grain Size Analysis; ASTM D-422 & ASTM D-1140
- ✓ Soil Plasticity Evaluation; ASTM D-4318
- ✓ Soil Stabilization Recommendations

Concrete & Reinforcing Steel

- ✓ Concrete Placement Inspection
- ✓ Reinforcing Steel Placement Inspection
- ✓ Concrete Batch Plant Inspection
- ✓ Pre-Cast Concrete Inspection
- ✓ Post-Tensioned Concrete Inspection
- ✓ Preparation of Cylinder, Cube, & Beam Specimens
- ✓ Strength Testing of Cylinder, Cube, & Beam Specimens
- ✓ Concrete Coring Capabilities
- ✓ In-place Testing and Evaluation of Hardened Concrete
- ✓ Determination of Reinforcing Steel Placement in Hardened Concrete

Foundations & Retaining Walls

- ✓ Shallow Foundation Testing & Inspection
- ✓ Deep Foundation Testing & Inspection; Piles and Piers
- ✓ Soil Modification Inspection; Rammed Aggregate Piers, Deep Dynamic Compaction
- ✓ Retaining Wall Inspections; Segmental, Drilled Pier, Tieback, Cast-In-Place
- ✓ Load Testing

Asphalt

- ✓ Asphalt Batch Plant Inspection
- ✓ Asphalt Coring Capabilities
- ✓ Asphalt Placement Inspection
- ✓ In-Place Density Testing by Nuclear Gauge
- ✓ Laboratory Determination of Density
- ✓ Extraction Analysis
- ✓ Mix Design Evaluation

Masonry

- ✓ Masonry Wall Inspection
- ✓ Preparation of Cylinder, Prism, & Cube Specimens
- ✓ Strength Testing of Grout & Mortar Specimens
- ✓ Unit Masonry Testing
- ✓ Brick Veneer Testing & Inspection
- ✓ Flashing Inspection

Structural Steel

- ✓ Fabrication Shop Inspection
- ✓ Field Inspection of Welded and Bolted Connections
- ✓ Visual Weld Inspection
- ✓ Ultrasonic Testing
- ✓ Magnetic Particle Testing
- ✓ Liquid Penetrant Testing
- ✓ Bolt Torque Testing
- ✓ Shear Stud Testing
- ✓ Metal Deck Inspection
- ✓ Anchor Bolt Pull-Out Testing

Fire Protection

- ✓ Fireproofing Placement Inspection
- ✓ SFRM Thickness Testing
- ✓ SFRM Density Testing
- ✓ SFRM Bond Strength Testing
- ✓ Intumescent Paint Thickness Testing
- ✓ Firestop Inspections

Miscellaneous

- ✓ Moisture Emission Testing
- ✓ Floor Flatness & Levelness Testing
- ✓ Wood Framing Inspection
- ✓ Ground Penetrating Radar Inspection
- ✓ Insulated Concrete Form Testing & Inspection
- ✓ EIFS Inspections
- ✓ SWPPP Inspections

William E. Witzig, P.E.
Thomas J. Coffey, P.E.
David C. Harness, P.E.

Patrick A. Knoll, P.E.
Tobin C. Moore, P.E.
Dustin M. Horn, P.E.

Zachary J. Stivers, P.E.
Jason R. Bennett, P.E.
Jacob L. Rankin, P.E.