

# REQUISITION FOR PURCHASE ORDER

ROCKDALE COUNTY, GEORGIA

NOV 22 2024  
 Purchasing

VENDOR # 52458 P.O.# \_\_\_\_\_

VENDOR QUOTATIONS REQUIREMENTS  
 15,000,000 and OVER - FORMAL BID/RFP PROCEDURE IS REQUIRED  
 2,500,000 TO 14,999,999 - THREE WRITTEN QUOTES ATTACHED  
 0.00 TO 2,499,999 - ONE PHONE QUOTE (depts required to rotate sources)

Department/Account	Quantity	Unit	Description	VENDOR #1		VENDOR #2		VENDOR #3	
				UNIT	EXTENDED	UNIT	EXTENDED	UNIT	EXTENDED
352-1565-541305-11			Judicial Administration Complex Project Special Testing:						
			Construction Materials Testing and Special Inspections for Masonry Testing,						
			Structural Steel Testing, Sprayed Fire-Resistant Materials, Mastic and Intumescent	94,315.00	94,315.00				
			Fire Resistant Coatings, Exterior Insulation and Finish Systems, Fire Resistant						
			Penetrations and Joints.						
			Contingency	5,500.00	5,500.00				
			Contract: C-2023-174 ✓ <i>John</i>						
			Email to Depart: andrew.hammer@rockdalecountyga.gov						
			Email to Vendor: michael.robinson@rockdalecountyga.gov						
			Email to Vendor: naser@matrixengineeringgroup.com						
			<b>TOTAL</b>	99,815.00	99,815.00		0.00		0.00

Recommended Source of Supply: \_\_\_\_\_  
 Matrix Engineering Group  
 4358 Chamblee Tucker Rd. Suite 3  
 Tucker, GA 30084  
 CONTACT: Nasir Ackail  
 PHONE: 770-448-3124

Requesting Department: General Services Date Prepared: 11/22/24  
 Elected Official: \_\_\_\_\_ Date Required: ASAP  
 Department Head: \_\_\_\_\_

Purchasing Officer Use Only Below Line  
 Approved for preparation of Purchase Order

Award to be made to: Matrix Engineering Group  
 (If not low quotation, indicate reason): \_\_\_\_\_

Accounting Officer: [Signature] Date: 12/2/24

REQUISITION FORM Revised 7/08/2015

2024-619  
 12/11/24  
 Woodhull  
 11/25/24

November 21<sup>st</sup>, 2024

Mr. Michael Robinson  
JAC Program Director  
Rockdale County Government  
1329 Portman Drive, Suite J  
Conyers, GA 30094



**Re: Proposal for Construction Materials Testing & Special Inspections Services  
Rockdale County Judicial and Administrative Complex – Special Inspections  
922 Court Street, Conyers, GA 30012**

Dear Mr. Robinson:

Pursuant to your request, we are pleased to submit our updated proposal for the provisions of construction materials testing and special inspections services for the Rockdale County Judicial and Administrative Complex – Phase 1 project. Based on the drawings and 20-month construction schedule that were provided, Matrix Engineering Group, Inc. {MATRIX} will perform the construction materials testing and special inspection services for an estimated fee **Ninety-Four Thousand, Three Hundred and Fifteen Dollars (\$94,315), as outlined below in Table 1.**

Matrix inspectors utilize a proprietary, cloud-based reporting, scheduling, and document management system {*Matrix | Sequence*}, that connects the construction team to the project's Schedule of Special Inspections (SSI). This robust tool uniquely synchronizes the entire construction team on our findings including a dynamic open item record that gives a barometer of the status of the various inspections. Our staff also leverages *Filio*, a cutting edge, geospatial photo management software that captures and geo-tags photographs which document the inspected activities. Through machine learning and artificial intelligence, the photographs are searchable by date and type of activity or observation.

We appreciate the opportunity to submit this proposal and look forward to providing the testing services on this important and exciting project.

Sincerely,

**MATRIX ENGINEERING GROUP, INC.**

Naser "Nick" Ackall, ICC  
Chief Estimator  
[nick@matrixengineeringgroup.com](mailto:nick@matrixengineeringgroup.com)

Amin Tomeh, PE, PMP, D.GE, SE  
Principal  
[amin@matrixengineeringgroup.com](mailto:amin@matrixengineeringgroup.com)

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4358 chambler tucker rd, ste 3  
tucker, georgia 30084  
tel. 770-448-9124

## **INTRODUCTION**

This proposal is presented for the provisions of Special Inspections for the Rockdale County Judicial and Administrative Complex – Phase 1 project encompassing masonry inspections, structural steel inspections, EIFS inspections, SFRM fireproofing inspections as well as mastic inspections and fire-resistant penetrations and joints. This proposal was prepared based on the drawings that were obtained from Jericho Design Group. Based on our review of the plans and the items that were noted in the email for proposal on October 31, we are proposing to perform the following inspections:

- 1705.4 Masonry Construction
- 1705.2.1 Structural Steel Construction
  - 1705.2.2 Cold -Formed Steel Deck
  - 1705.2.3 Open-Web Steel Joists and Joist Girders
  - Ultrasonic Inspections of Full Moment Connections Nondestructive testing (NDT)
- 1705.14 Sprayed Fire-Resistant Materials
- 1705.15 Mastic and Intumescent Fire-Resistant Coatings
- 1705.16 Exterior Insulation and Finish Systems (EIFS)
- 1705.17 Fire-Resistant Penetrations and Joints

## **SCOPE OF SERVICES**

Our scope of services was developed to meet the testing requirements, as defined by the project specifications and IBC2018 Chapter 17 guidelines. The following sections detail our scope of services. The most cost-effective services will be achieved through our strategic allocation of experienced manpower, our quality approach to providing the required services, and our competitive rates. Although it is our clear intention to perform the requisite testing, as directed by the Schedule of Special Inspections (SSI), our services are highly dependent on when the contractor schedules the respective inspections. It is assumed that the contractor and their representatives are intimately and sufficiently abreast of the items to be tested and basis of inspection (whether continuous versus periodic) as articulated in the SSI. This is critical in ensuring that Matrix is scheduled properly (i.e., 24 hours notices) in order to meet its SSI obligations as the project's special inspector. If approved, Matrix requests that the contractor/construction manager be given a copy of our technical scope of services in order to integrate our inspection into their construction process. Matrix Engineering Group, Inc. proposes to provide the services listed below:

***CONCRETE MASONRY TESTING***

- Verification of the type, size and location of anchors, including other details of anchorage of masonry to structural members.
- Field verification that the site prepared mortar and grout proportions are in accordance with the approved mix design
- Prior to grout placement, the steel reinforcement placement and the cleanliness of the grout space will be visually inspected and verified.
- Verification of protection of masonry during hot/cold weather conditions.
- Verify grout placement complies with code and construction document provisions.
- During grout placement, specimens for the purpose of compressive strength determination will be cast in general accordance with ASTM C1019.

***STRUCTURAL STEEL TESTING***

- Material verification of high-strength bolts, nuts and washers
- Inspection of high-strength bolting and bearing type connections
- Material verification of structural steel: identification markings, weld filler materials, complete and partial groove welds and multi-pass fillet welds
- Inspection of steel frame joint details for compliance with construction drawings, details such as bracing and stiffening, member locations and application of joint details at each connection
- Complete penetration groove welds 5/16" or greater for ultrasonic testing
- Inspection of material verification of steel deck placement and deck welding + mechanical fastening
- Inspection of open-web steel joists and joist girders including end connections – welding or bolted
- Inspection of standard bridging

***SPRAYED FIRE-RESISTANT MATERIALS***

- Verify surface conditions preparation of structural members
- Verify minimum thickness of the spray fire-resistant materials applied to structural members
- Verify density of the sprayed fire-resistant materials complies with approved fire-resistant design
- Verify the cohesive/adhesive bond strength of the cured fire-resistant material
- Verify condition of finished application

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***MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS***

- Inspect and test mastic and intumescent fire-resistant coatings applied to structural elements and decks

***EXTERIOR INSULATION AND FINISH SYSTEMS***

- Inspection of water-resistive barrier over sheathing substrate

***FIRE-RESISTANT PENETRATIONS AND JOINTS***

The fire-resistant penetrations and joints should be scheduled prior to installation as these items will not be visible after the firestop installation has been performed. It is critical we are notified prior to installation and that we are present during the process to verify and document the procedure.

- Inspection of penetration firestop systems
- Inspection of fire-resistant joint systems

***COMPENSATION***

The following table provides a breakdown of the costs associated with the requested inspection and testing services. We have estimated the testing budget based on the estimated construction schedule and the required inspection services. Matrix Engineering will perform the required testing services for a total of **Ninety-Four Thousand, Three Hundred and Fifteen Dollars (\$94,315)**, as outlined in **Table 1, below.**

**TABLE 1:**  
**SCHEDULE OF FEES – CONSTRUCTION MATERIALS TESTING**

DESCRIPTION OF SERVICES	QUANTITY X UNIT PRICE	COST (\$)
<b>ITEM 1 – Structural Steel Inspections:</b> ICC Certified Structural Steel Inspector for verification of bolted and welded connections, and decking inspection and includes cold-formed steel deck and open-web joists and joist girders	30 visits x 6 hours/visit x <b>\$120/hr</b>	\$21,600.00
	Ultrasonic Inspections (NDT) 15 days x <b>\$950/daily rate</b>	\$14,250.00
<b>ITEM 2 – Masonry Inspections:</b> Senior Staff Engineer for inspection of masonry components and sampling of grout	75 visits x 4 hours/visit x <b>\$90/hr</b>	\$27,000.00
<b>ITEM 3– Sprayed Fire-Resistant Materials &amp; Mastic:</b> Senior Staff Engineer for inspection of SFRM and Mastic	15 visits x 4 hours/visit x <b>\$120/hr</b>	\$7,200.00
<b>ITEM 4– Fire-Resistant Penetrations and Joints:</b> Senior Staff Engineer for inspection of fire-resistant penetrations and joints	10 visits x 4 hours/visit x <b>\$120/hr</b>	\$4,800.00
<b>ITEM 5: Exterior Insulation and Finish Systems (EIFS):</b> Senior Staff Engineer for inspection of water-resistant barrier over sheathing substrate	8 visits x 4 hours/visit x <b>\$120/hr</b>	\$3,840.00
<b>ITEM 6 – Laboratory Testing</b> Grout Prisms: Compressive Strength Testing SFRM Samples for Density & Cohesion	50 sets x 4 prisms/set x <b>\$20/ea</b>	\$4,000.00
	25 samples x <b>\$75/sample</b>	\$1,875.00
<b>ITEM 7 – Project Manager &amp; Principal Engineer:</b> Project Manager for overall management and report review Professional Registered Engineer for Engineering Consulting as requested by the Design Team	Estimate 40 hours x <b>\$90/hr</b>	\$3,600.00
	Estimate 25 hours x <b>\$150/hr</b>	\$3,750.00
<b>ITEM 8 – Travel Costs</b>	120 trips x <b>\$20/trip</b>	\$2,400.00
<b>Estimated Cost for Testing:</b>		<b>\$ 94,315.00*</b>

*\*This total estimated fee was estimated based on our experience on similar projects and assuming that the construction of the Courthouse and Admin Building will be concurrent. Our durations are estimated based on the construction schedule that we were provided. The General Contractor is responsible for scheduling our Special Inspections and we will only visit the site as requested by them. If our estimated durations are exceeded, they will be billed at the hourly rate indicated with a 4-hr minimum.*

*\*\*The total does not include costs associated with re-testing of areas that fail to meet the project specifications upon initial inspection, nor any additional assignments that are requested by the owner that are beyond the scope of work provided herein. All testing services are assumed to occur during regular work hours. Services exceeding 40 hours per week and work on weekends will be billed at 1.5 times the hourly rates listed above. Shop Visits are not included in this estimate. We assume that the precast fabricator is an approved shop and will not require shop inspection.*