

RESOLUTION 20-92

A RESOLUTION TO APPROVE PROFESSIONAL SERVICES AGREEMENT WITH THE CORRADINO GROUP TO PROVIDE DESIGN SERVICES FOR BUCKNER ROAD TRANSITION WIDENING PROJECT

WHEREAS, the City of Spring Hill Major Thoroughfare Plan identifies Buckner Road under the existing functional classification system as an “Arterial” street; and

WHEREAS, the City of Spring Hill Major Thoroughfare Plan identifies the widening of Buckner Road from Buckner Lane to US-31 from 2 lanes to 4/5 lanes as a high priority project; and

WHEREAS, the widening of Buckner Road is an essential road improvement project to support the implementation of the Buckner Road BUILD Project that provides for the extension of Buckner Road and construction of an interstate interchange; and

WHEREAS, the City of Spring Hill engaged The Corradino Group in 2020 to prepare an initial study for the widening of Buckner Road as it transitions to the intersection of Buckner Road and Buckner Lane; and

WHEREAS, the initial study prepared by The Corradino Group indicated that a 3-lane transition widening project that includes the introduction of a center turn lane and related improvements can be accommodated within the existing right-of-way of Buckner Road; and

WHEREAS, it is the desire of the Board of Mayor and Aldermen to proceed with design and construction of the transition widening project as recommended in the initial study to include the installation of a center turn lane and related improvements within the existing right-of-way of Buckner Road; and

WHEREAS, the City requested The Corradino Group to prepare a proposal for professional services for the design and procurement of the Buckner Road transition project; and

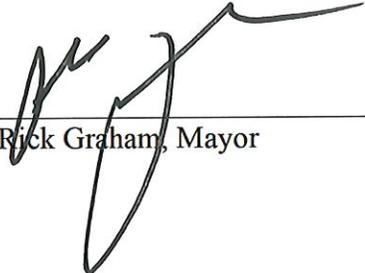
WHEREAS, Corradino Group presented a proposal to the City to provide professional services for the design and procurement of the Buckner Road transition project including a detailed scope of services with scheduled completion of work estimated at 34 weeks following issuance of a notice to proceed for a lump sum fee of \$83,129.30 that is inclusive of a not-to-exceed amount of \$4,000.00 for reimbursable expenses to be invoiced at direct cost to the City; and

WHEREAS, the Board of Mayor and Aldermen appropriated \$91,000 from State Street Aid funds in the FY2020-21 fiscal budget for professional design services for the Buckner Road transition widening project.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Mayor and Aldermen of the City of Spring Hill authorizes the Mayor as follows:

1. Approve the Professional Services Agreement with The Corradino Group attached hereto and authorize the Mayor to execute the Agreement for the provision of professional design services to prepare design and construction plans and related procurement support services, for a total lump sum cost of \$83,129.30 that includes a not-to-exceed amount of \$4,000.00 for reimbursable expenses to be billed at direct cost to the City, and excluding Construction Engineering Inspection (CEI) services that will be negotiated as design work progresses and a scope of services and associated fees can be more readily defined.
2. Approve the establishment of a design contingency budget for all phases of design and procurement work utilizing the remaining available initial budgeted funds in the amount of \$7,870.70 to be utilized for unforeseen and/or necessary design considerations during the design and procurement for the Buckner Road transition project.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on this 20th day of July, 2020.



Rick Graham, Mayor

ATTEST:



April Goad, City Recorder

LEGAL FORM APPROVED:



Patrick Carter, City Attorney



REQUEST: Approval of Resolution 20-92

SUBMITTED BY: Chuck Downham, Assistant City Administrator

DATE: July 6, 2020

RE: Approve Professional Services Agreement with The Corradino Group for Design Services for Buckner Rd Transition Widening Project

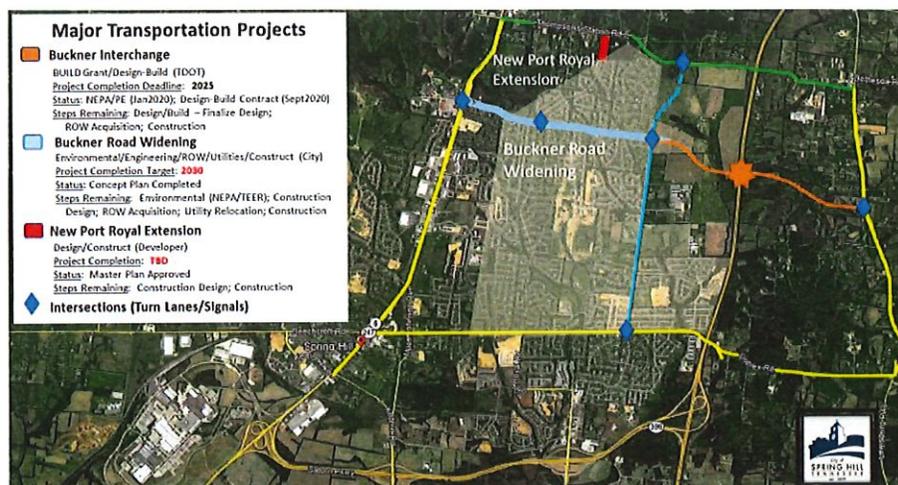
ATTACHMENTS: Professional Services Agreement and Supporting Documents

PURPOSE:

To approve Resolution 20-92 to approve a Professional Services Agreement with The Corradino Group to provide professional design services for the Buckner Road Transition Widening Project.

BACKGROUND:

The Buckner Road widening project has been a high priority project for the City of Spring Hill as reflected in the City's adopted Capital Improvement Plan and the City's recently adopted Major Thoroughfare Plan. With the FHWA BUILD Grant award for the Buckner Road Interchange project, the importance of completing the widening project for Buckner Road has accelerated in importance and need in support of the Buckner Road BUILD interchange project. The map diagram below illustrates Buckner Road in relation to other major transportation improvement projects in the vicinity of Buckner Road interchange project.



The City engaged The Corradino Group to prepare an Initial Study for the widening of a portion of Buckner Road as it approaches the intersection of Buckner Lane in order to provide an interim widening project that provides a lane transition from its current 2-lane configuration to a 3-lane configuration to align with the full build-out of the Buckner Road/Buckner Lane intersection. The Corradino Group presented a briefing to the BOMA in May 2020 (attached) that provided three different alternatives for consideration. The preferred option was Option "B" that provides for a widening and transitioning to tie improvements to Buckner Road utilizing existing right-of-way. Specifically, the option would provide for a three-lane configuration that included two travel lanes and a center turn lane along with shoulders and related improvements. It should be emphasized that the transition project is an interim step toward the eventual widening of Buckner Road from Buckner Lane to US-31 from its current 2-lane configuration to a 4/5 lane configuration and that with the desire of the City to utilize state and/or federal funding for the longer term widening project that several years will be required in order to undertake appropriate environmental and preliminary engineering, final design and permitting, right-of-way design and acquisition, and subsequent construction.

Following the presentation, The Corradino Group was requested to prepare a proposal for design services for the preparation of construction plans and procurement services for the project excluding Construction Engineering Inspection (CEI) services. The Corradino Group presented the City with a proposal along with a corresponding draft Professional Services Agreement utilizing the City's preferred template.

The proposal presented by The Corradino Group provides a detailed Scope of Work as well as a Fee Summary provided in Exhibit A and Project Schedule provided as Exhibit B within the proposal. The Corradino Group proposes to complete the Scope of Work within an estimated 34-week time period for a lump sum fee in the amount of \$83,129.30 that includes a not-to-exceed amount of \$4,000.00 for reimbursable expenses to be invoiced at direct cost to the City. The proposal is attached and referenced as an exhibit to the Professional Services Agreement.

FINANCIAL IMPACT:

The Board of Mayor and Aldermen appropriated \$91,000 from State Street Aid fund in the FY2020-21 fiscal budget for design services for the Buckner Road transition widening project. The proposal received from The Corradino Group provides a lump sum fee in the amount of \$83,129.30 that includes a not-to-exceed amount of \$4,000.00 for reimbursable expenses to be invoiced at direct cost to the City. The contract amount provided is within the budget appropriation.

City staff recommends consideration by the Board to budget the remaining appropriation in the amount of \$7,870.70 as a design contingency in order to address unforeseen conditions or design considerations that may emerge during the design process.

STAFF RECOMMENDATION:

City staff recommends approval of Resolution 20-92 to approve the Professional Services Agreement with The Corradino Group to provide professional design services for the Buckner Road transition widening project for a lump sum fee in the amount of \$83,129.30 that includes a not-to-exceed amount of \$4,000.00 for reimbursable expenses to be invoiced at direct cost to the City. The proposal from The Corradino Group is attached as an exhibit to the Resolution. The estimated time to complete the scope of work as provided in the proposal from The Corradino Group is 34 weeks.

City staff further recommends that the remaining budgeted appropriation in the amount of \$7,870.70 be utilized as a design contingency for the purpose of addressing unforeseen conditions or design considerations that may arise during the design and procurement phase of the project.

**PROFESSIONAL SERVICES AGREEMENT BETWEEN
CITY OF SPRING HILL, TENNESSEE
AND THE CORRINO GROUP**

THIS AGREEMENT is made this the 23rd day of July, 2020, by and between **CITY OF SPRING HILL, TENNESSEE** (hereinafter "City"), and The Corradino Group, Inc. in Brentwood, TN (hereinafter "Consultant").

WITNESSETH:

WHEREAS, the City has determined to enter into an agreement with a consulting firm that affirms itself to have extensive experience in providing professional services in transportation planning, design and construction engineering and inspection; and

WHEREAS, the City submits that it has the authority to contract with Consultant to provide professional services for the work desired by the City; and

WHEREAS, by entering into this Agreement, Consultant affirms that it has extensive experience in transportation planning and design for the City of Spring Hill providing such services in a professional manner in accordance with the terms and conditions of this Agreement as well as the standard of care practiced by other consultants and professionals performing similar services within the industry.

NOW, THEREFORE, in consideration of the premises and recitals hereinabove set forth, which are incorporated herein by reference, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and the mutual covenants contained herein, the City and Consultant agree as follows:

ARTICLE 1 - SCOPE OF SERVICES TO BE RENDERED BY CONSULTANT

1. Consultant shall perform all necessary professional services in a satisfactory and proper manner, consistent with the City's requirements for the Project and by reference made a part hereof, including, but not be limited to, the following:

a. See Attached Exhibit A (Scope of Services and Fee Summary)

2. All documents prepared by Consultant that form a part of the services rendered hereunder shall, upon completion of the exhibits, calculations, draft reports, presentation material, etc. will become the property of the City. Such documents shall not be used by either party on any other project, except as reference materials.

3. The City will furnish all information, data, reports and maps as are existing and identified by Consultant as necessary for carrying out the work that are available to the City without cost to Consultant.

ARTICLE 2 – CITY’S RESPONSIBILITIES

The City will provide to Consultant all criteria and full information as to the Project’s requirements, and shall furnish the following:

1. Provide Consultant with all known available information that is pertinent to the Project.
2. Meet with Consultant for ongoing discussions to assist in directing the consultant.
3. Give thorough consideration to all reports, exhibits or technical memorandums and other documents presented by Consultant and inform Consultant of all decisions within a reasonable time so as not to delay the work of Consultant (i.e. furnish approval or instructions for change).
4. Promptly schedule all required special meetings, serve all public and private notices, receive and act upon all protests.
5. Designate, in writing, a single person to act as Consultant point of contact with the City. The contact person for the City of Spring Hill will be Mr. Chuck Downham.
6. Give prompt written notice to Consultant when it is known that either the Project criteria or conditions have changed, or there is reason to believe Consultant work is deficient in intent or technical content.

ARTICLE 3 - TERM

1. The services of the Consultant shall be undertaken and completed within 34 weeks from receipt of Notice to Proceed, unless otherwise agreed upon by the City. A milestone schedule for the Project shall be as provided in Exhibit B of the proposal from Consultant attached hereto.

ARTICLE 4 - FEES

1. In consideration of the performance of services rendered under this Contract, Consultant shall be compensated Lump Sum for services performed in accordance with Article 1, not to exceed \$83,129.30 inclusive of reimbursable expenses. Reimbursable expenses shall not exceed \$4,000 and shall be invoiced by the Consultant at direct expense to the City.
2. Invoices shall be submitted by Consultant to the City in monthly statements for services rendered, if any. The statements shall be based on percent completion of the lump sum amount, and incurred expenses. Each individual invoice shall be due and payable thirty (30) days after receipt.

3. If the City disputes any portion of Consultant invoices, the undisputed portion will be paid by the City, and Consultant will be notified in writing within ten (10) days of receipt of the exceptions taken to such invoice. The City and Consultant will attempt to resolve any payment dispute within sixty (60) days, and both parties agree that no action for collection thereon shall be filed within this time period.

4. If the City delays the Project for more than six months (6) beyond the designated date when work is scheduled to begin, which is more particularly defined as the date this Agreement is executed, then the lump sum as designated in Sub-Paragraph 1 of this Section shall be increased by three percent (3%) per year. The intent of this language is that the increase shall be cumulative, as a delay would cause Consultant to have to revisit the plans created in accordance with the designated start date as defined herein.

ARTICLE 5 – NOTICE

All notices, certificates or other communications hereunder shall be deemed sufficiently given and shall be deemed given when delivered by hand-delivery or mailed by first class, postage prepaid, registered or certified mail and addressed as follows:

If to Consultant: Attn: Gerald Bolden, PE, PTOE
Vice President
7000 Executive Center Drive, Suite 2-250
Brentwood, TN 37027

If to City: Attn: Victor Lay
Title: City Administrator
199 Town Center Parkway
Spring Hill, TN 37174

Copy to: Patrick M. Carter, Esq.
City Attorney
P.O. Box 1431
Columbia, TN 38402-1431

ARTICLE 6 - TERMINATION

1. This Agreement may be terminated by either party upon thirty (30) days' written notice should the other party fail substantially to perform in accordance with the terms outlined herein through no fault of the party initiating the termination.

2. This Agreement may be terminated by Consultant in the event that the City permanently abandons the Project.

3. In the event of termination by either party, Consultant shall be compensated for all services performed prior to the termination date.

ARTICLE 7 - DISPUTE RESOLUTION AND GOVERNING LAW

1. The City and Consultant shall attempt to resolve conflicts or disputes under this Agreement in a fair and reasonable manner and agree that if an informal resolution cannot be achieved, the parties shall submit the matter to a mutually agreed upon mediator in an attempt to resolve the dispute through the mediation process. Such mediation process shall be initiated by a request in writing by either party.

2. The mediation provision can be waived by the mutual consent of the parties or by either party if such party's right would be irrevocably prejudiced by a delay in initiating a legal proceeding.

3. Governing Law, Venue and Jurisdiction: This Agreement shall be governed by and construed in accordance with the laws of the State of Tennessee. The venue and jurisdiction for any dispute arising pursuant to this Agreement shall be in the Circuit Court for Maury County, Tennessee.

ARTICLE 8 - BREACH

1. The term "breach of agreement" specifically includes, but is not limited to, failure to comply with any applicable federal, state or local laws or regulations.

2. One or more waivers of breach of any provision of this Agreement by any party shall not be construed as a waiver of subsequent breach of the same provision, nor shall it be considered a waiver of any other then existing or subsequent breach of a different provision.

3. The substantially prevailing party in any legal proceeding hereunder by and between the parties shall be entitled to their reasonable attorney's fees and court costs incurred in said legal proceeding.

ARTICLE 9 - MODIFICATION

This Agreement shall not be modified unless such modifications are evidenced in writing in the form of a written Amendment, which is signed by both the City and Consultant. Should any changes in the design of the Project be necessary, the City's designee shall report such change to Consultant in writing. If the City determines that any changes in work are necessary to complete the Project, then Consultant shall be allowed compensation based upon the original contract terms, including the additional work in the overall cost of the construction of the Project.

ARTICLE 10 - INDEMNITY AND HOLD HARMLESS

1. City shall agree to indemnify and hold Consultant, its officers, agents and/or employees, harmless from and against any and all lawsuits, damages and expenses, including court costs and attorneys' fees, by reason of any claim and/or liability imposed, claimed and/or threatened against the City, its officials, agents and/or employees, for damages because of bodily injury, death and/or property damages arising out of or in consequence of the performance of services under this Agreement to the extent that such bodily injuries, death and/or property damages are attributable to the negligence of the City, its agents, employees, or any other entity for which the City may be found to be legally liable. This provision shall survive the completion of all services, obligation and duties provided pursuant to the Project, or the termination of this Agreement for any reason.

2. Consultant shall agree to indemnify and hold the City, its officers, agents and/or employees, harmless from and against any and all lawsuits, damages and expenses, including court costs and attorneys' fees, by reason of any claim and/or liability imposed, claimed and/or threatened against Consultant, its officials, agents and/or employees, for damages because of bodily injury, death and/or property damages arising out of or in consequence of the performance of services under this Agreement to the extent that such bodily injuries, death and/or property damages are attributable to the negligence of Consultant, its agents, employees, or any other entity for which Consultant may be found to be legally liable. This provision shall survive the completion of all services, obligation and duties provided pursuant to the Project, or the termination of this Agreement for any reason.

ARTICLE 11 – INSURANCE

Consultant shall maintain, during the term of this Agreement, or any extension hereof, the following insurance policy, written by an insurance company authorized to do business within the State of Tennessee, and furnish City, in duplicate, Certificates of Insurance as evidence thereof:

1. Worker's Compensation: Providing coverage in compliance with the laws of the state in which any part of the work is to be performed, and Employer's Liability Coverage in the minimum amount of the statutory limit for each occurrence.

2. Comprehensive (Commercial) General Liability Insurance: Bodily injury and property damage combined single limit in the minimum amount of \$1,000,000.00 for each occurrence.

3. Automobile (Business) Liability Insurance: Bodily injury and property damage combined single limit in the minimum amount of \$1,000,000.00 for each occurrence, \$1,000,000.00 aggregate.

4. Professional Liability Insurance: Professional liability insurance covering claims arising from errors, omissions or negligent acts committed in the performance of professional services under this Agreement with limits of \$1,000,000.00.

ARTICLE 12 - SEVERABILITY

In the event any provision of this Agreement or any instrument delivered in connection herewith shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provisions hereof or thereof.

ARTICLE 13 - BINDING EFFECT

This Agreement shall inure to the benefit of and shall be binding upon the parties and their respective heirs, administrators, successors and assigns.

ARTICLE 14 - INDEPENDENT CONTRACTOR RELATIONSHIP

It is specifically understood that Consultant relationship with City shall be that of independent contractor and Consultant shall in no sense be considered an agent or employee of City, nor shall Consultant be, as a result of the relationship established by this Agreement, entitled to or eligible to participate in any benefits or privileges extended or given by City to its employees, notwithstanding this Agreement.

ARTICLES 15 - HEADINGS AND EXHIBITS

The paragraph headings in this Agreement are for convenience only, and they form no part of this Agreement and shall not affect its interpretation.

ARTICLE 16 - FORCE MAJEURE

Consultant shall not be liable to City or be deemed to be in breach of this Agreement for any failure or delay in rendering performance arising out of causes beyond Consultant reasonable control and without its fault or negligence. Such causes may include, but are not limited to, acts of God or the public enemy, terrorism, significant fires, floods, earthquakes, epidemics, quarantine restrictions, strikes, freight embargoes, or Governmental Authorities approval delays which are not caused by any act or omission by Consultant and unusually severe weather. Consultant agrees to notify City of the existence and nature of any delay.

ARTICLE 17 - ENTIRE AGREEMENT

This Agreement and accompanying documents contain the entire agreement between the parties with respect to the subject matter hereof and all prior or contemporaneous written or oral agreements with respect to the subject matter hereof are superseded hereby.

IN WITNESS WHEREOF, the City has caused this Agreement to be signed by its authorized representative, and Consultant has caused this Agreement to be signed in its corporate name by its authorized representative as of the day and year first written above.

CITY OF SPRING HILL, TENNESSEE

By: 
Rick Graham, Mayor

The Corradino Group, Inc.

By: 

Gerald Bolden
(Print Name)

THE CORRADINO GROUP, INC.

CORRADINO

ENGINEERS · PLANNERS · PROGRAM MANAGERS · ENVIRONMENTAL SCIENTISTS

June 26, 2020

Mr. Chuck Downham
Assistant City Administrator
City of Spring Hill
199 Town Center Parkway
Spring Hill, TN 37174

**Re: Revised Scope of Work and Fee Proposal
Buckner Road Transition Widening**

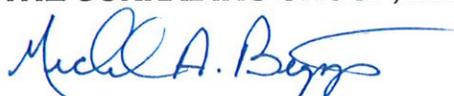
Dear Mr. Downham:

Attached for your approval is our scope of work and lump sum fee proposal in the amount of \$83,129.30 to provide professional services for interim improvements to Buckner Road. This fee includes costs for all labor and a not-to-exceed amount of \$4,000 for reimbursable expenses. A detailed scope of work for services to be performed by The Corradino Group and our subconsultants, Energy Land and Infrastructure (ELI) and Civil Infrastructure Associates (CIA), are included along with a detailed breakdown of the hours and costs associated with each task. A project timeline has been included that identifies milestones and estimates

We are available at your discretion to further discuss and answer any questions the City may have concerning this information. We greatly appreciate this opportunity and look forward to working with you and the City.

Sincerely,

THE CORRADINO GROUP, INC.



Michael A. Biggs, PE, CPESC
Transportation Engineer Manager

SCOPE OF WORK FOR DESIGN SERVICES BUCKNER ROAD TRANSITION WIDENING

June 26, 2020

The City of Spring Hill (City) is presently contracted with other design consultants to widen Buckner Lane, and to extend Buckner Road from the current intersection at Buckner Lane easterly to US-431 including the construction of a Diverging Diamond Interchange at I-65. Buckner Road is expected to be widened to match these improvements but will not occur immediately and will lag behind this work. A transition will be necessary to connect the existing segment of Buckner Road to the proposed intersection improvements at Buckner Road and Buckner Lane.

The following scope of work outlines the professional services to design a transition and develop plans for improvements along Buckner Road based on information from the Buckner Road Transition Study. All work must be contained inside the existing right-of-way; therefore, no land acquisition or easements will be expected. Project limits will extend from the intersection of Buckner Road/Buckner Lane to east of Rose Hill Lane. Design and construction of the project will tie to a point 250 feet west of the existing intersection by Southeast Ventures and S&ME.

1. General Project Management

Project management is a continuous task that will be performed for the duration of this contract. Monitoring, coordination, scheduling, and reporting requirements of this task will be used to facilitate periodic review by the City to ascertain conformance with the requirements of this task.

- 1.1 Project milestones to occur for Preliminary Plans and Final Construction Plans. One (1) electronic copy of plans will be submitted to the City in .pdf format at the completion of these milestones.
- 1.2 Provide monthly status reports to the City's Project Manager (PM).
- 1.3 Attend meetings at milestones and miscellaneous meetings with the City and Board of Mayor and Alderman (BOMA).
 - 1.3.1 Estimates three (3) milestone meetings with BOMA and two (2) miscellaneous meetings.
- 1.4 Coordination with subconsultants.
- 1.5 Coordination with the City's consultant (S&ME through Southeast Ventures) performing work related to Buckner Lane and Buckner Road intersection.

2. Preliminary Engineering

- 2.1. Survey the project to collect field information that will be used for the basis of designing the project. (See attached scope of work by Energy Land and Infrastructure, Inc. (ELI).)
- 2.2. An environmental evaluation of the area is not anticipated. An existing culvert crossing Buckner Road is expected to be replaced and disturbed limits to remain inside existing right-of-way. A desktop cursory review will be performed to confirm the crossing is not a sensitive stream or water way which could result in additional coordination and design activity.
- 2.3. Traffic analysis for interim conditions (assumed 2025) will be finalized based on the Study's selected option. This information will be used as the basis for the project design and will be coordinated with the City's other consultant.

- 2.4. A geotechnical investigation will be performed within the project limits. This work will be utilized in determining subsurface conditions and soil characteristics necessary for design and construction of the roadway, slope protection, and retaining walls. (See attached scope of work by Civil Infrastructure Associates, Inc. (CIA).)
- 2.5. Preliminary Design will be developed in accordance with City of Spring Hill Standards; Tennessee Department of Transportation (TDOT) Design Guidelines and Standard Specifications; AASHTO Green Book; and latest edition of the Manual of Uniform Traffic Control Devices (MUTCD).
 - 2.5.1. Guardrail and steepened slopes will be utilized to contain slope limits within the existing right-of-way.
 - 2.5.2. The use of retaining walls are anticipated in order to assist with containing slope limits and impacts inside the existing right-of-way. Structural design for any retaining wall will not be performed and is expected to utilize TDOT standard drawings for gravity walls or third-party stacked-block wall system that will not impact right-of-way or require design calculations to be performed.
 - 2.5.3. Pedestrian and bicycle design will not be implemented, nor any connectivity or accommodations made, given the limited right-of-way width.
 - 2.5.4. Preliminary Plans sheets anticipated to be prepared will consist of Title Sheet, Typical Section, Miscellaneous Details, Property Map, Present and Proposed Layout, Profile, Drainage Map, Culvert Cross-section, and Cross-Sections sheets.
 - 2.5.5. A preliminary Traffic Control layout will be developed for the purpose of discussing how to address traffic during construction.
 - 2.5.6. Drainage design will consist of a culvert design per TDOT guidelines with hydraulic analysis to replace the existing drainage culvert due to profile changes on Buckner Road. It is assumed runoff shall be contained in the roadside ditches and no other drainage design performed and all work will be performed inside the existing right-of-way.

3. Right-of-Way Phase

- 3.1 It is understood that all improvements/construction to Buckner Road must reside inside the existing right-of-way. Right-of-Way and/or easements are not to be acquired; therefore, no Right-of-Way plans shall be developed.
- 3.2 Assistance will be provided to the City to coordinate with existing utilities that may be affected. No utility relocation design will be performed.

4. Final Design / Construction Documents

Final design and development of construction plans will proceed upon approval of the City consisting of the following elements.

- 4.1 Details and remaining design elements will be completed to finalize and prepare construction plans.
- 4.2 Additional plan sheets will be prepared and included to the overall plans set consisting of, Index, Quantities, General and Special Notes, Traffic Control, signing and pavement marking layout, stormwater pollution prevention plan (SWPPP), and Erosion Control.
- 4.3 Final project quantities shall be calculated. Tab blocks will be prepared to list individual quantities requiring specific identification.
- 4.4 A pavement section will be coordinated and provided by the City which will be detailed on the Typical Section sheet.
- 4.5 The Notice of Intent (NOI) and, and at such time, a Notice of Termination (NOT) will be submitted to the Tennessee Department of Conservation (TDEC) to acquire a permit for

construction activity. Application fees will be provided by Corradino and directly reimbursed by the City of Spring Hill.

- 4.6 A final detailed Engineer's Estimate of Opinion will be prepared and submitted to the City upon completion of final construction plans.
- 4.7 A bid book will be prepared containing project information, legal forms to enter into contract with a selected contractor, and technical specifications to construct the project.

5. Bidding Assistance

- 5.1. Assist the City of Spring Hill to advertise the project for the purpose of selecting a contractor to perform the work. Publications and media for advertising will be decided by the City. Cost to advertise in these journals will be provided by Corradino and directly reimbursed to the City of Spring Hill.
- 5.2. Assist the City and oversee distribution of bid documents to potential bidders.
- 5.3. Supervise a pre-bid meeting to answer any questions concerning the project. Minutes of the meeting will be distributed, and addendum issued if necessary, addressing any possible conflicts.
- 5.4. Open bids on behalf of the City, evaluate all bids, and recommend award for this contract.

6. Construction Engineering and Inspection (CEI)

Services for CEI will be supplemented at such a time as construction is approved by the City of Spring Hill. Details of this scope of work will be discussed as such time as this work is to begin, which will provide further detail about the scope of construction engineering and inspection, need for materials testing, and anticipated construction schedule in order to accurately estimate the cost of this service.

7. Additional Services

Services not specifically mentioned, outside the project limits, or beyond the scope of services in Task Items 1 – 5 can be negotiated as additional services based on the hourly rate schedule for The Corradino Group.

FEE SUMMARY
BUCKNER ROAD TRANSITION WIDENING
 June 26, 2020

PHASE	TOTAL
1. PROJECT MANAGEMENT & COORDINATION	\$11,640.00
2. PRELIMINARY ENGINEERING	\$14,531.00
3. ROW PLANS	\$0.00
4. DEVELOP FINAL / CONSTRUCTION PLANS	\$20,118.00
5. BIDDING ASSISTANCE	\$10,256.00
Direct Expenses (Not-To-Exceed for Permit Application Fees, Advertising, etc.)	\$4,000.00
Subconsultant Services	
Survey (EI)	\$10,886.30
Geotechnical investigation (CIA)	\$11,698.00
ESTIMATED COST	\$83,129.30

THE CORRADINO GROUP, INC.

CORRADINO

ENGINEERS • PLANNERS • PROGRAM MANAGERS • ENVIRONMENTAL SCIENTISTS

2020 CLASSIFICATION HOURLY RATE SCHEDULE

Principal	\$240.00
Project Manager	\$220.00
Senior ITS Engineer	\$210.00
Senior Design Engineer	\$192.00
Staff Engineer	\$145.00
Engineer Intern	\$90.00
Senior Planner	\$145.00
Staff Planner	\$115.00
Construction Manager	\$180.00
Inspector	\$100.00
Travel Demand Modeler	\$145.00
Technician	\$100.00
Administrative	\$70.00

7000 EXECUTIVE CENTER DRIVE • BLDG II, SUITE 250
BRENTWOOD, TN 37027
TEL 615.372.6972
FAX 615.372.7519
WWW.CORRADINO.COM



SCOPE AND FEE ESTIMATE
Buckner Road at Buckner Lane
CITY OF SPRING HILL, WILLIAMSON COUNTY, TN

Surveying Services

MANHOUR ESTIMATE									
TASK	RLS	TECH	PC	IM					HOURS
Recover and Establish Survey Control and Benchmark Levels	1		4	4					9
R/W, Property, and Utility Research including 811 tickets	3								3
Property Owner Contact	2								2
Property and Present Right-of-way Data Collection	2		8	8					18
Topographic Data Collection	1		8	8					17
Utility/Stormwater Data Collection			8	8					16
Process and Compile Survey Data, Reduce Notes	2								2
Property & Present Right-of-way Resolution	1	1							2
Develop Digital Terrain Model	1	3	12	12					28
Develop Survey Drawing Deliverables (Plan, Notes, Tables, etc)	2	20							22
TOTAL MANHOURS	15	24	40	40					119

Surveying Services

COST PROPOSAL							Hours	Rate	Amount	
RLS - Registered Surveyor / Survey Project Manager							15	\$ 150.00	\$2,250.00	
TECH - Cadd/Design Technician							24	\$ 100.00	\$2,400.00	
PC - Survey Party Chief							40	\$ 90.00	\$3,600.00	
IM - Survey Instrument Man							40	\$ 60.00	\$2,400.00	
Subtotal										\$10,650.00
Direct Cost										
Mileage			440	miles	\$ 0.47 /miles		\$206.8			
Printing (11 x 17 Plan Sheets)			10	sheets	\$ 0.35 /sheet		\$3.50			
Deeds & Plats			22	tracts	\$ 1.00 /each		\$22.00			
Printing (Full Size Bond Plan Sheets)			2	sheets	\$ 2.00 /sheet		\$4.00			
Total Direct Costs										\$236.30
TOTAL COST - SURVEYING SERVICES									\$10,886.30	

Survey Scope of Work

ELI will prepare a TDOT format roadway database survey along Buckner Road from its intersection with Buckner Lane westward to Rose Hill Ln./Overton Drive (± 1250'). The width of the DTM will be 80 feet wide, 40' each side of the existing centerline of Buckner Road. Locations and elevations of utilities and drainage features which extend beyond the established limits will be located to the next downstream junction or structure. The survey will be tied to the Tennessee Geodetic Reference Network and delivered in datum adjusted Tennessee State Plane Coordinate Values based on existing survey control shown on the owner provided Buckner Lane survey prepared by others. Property data collection will be limited to that necessary to establish the existing right-of-way of Buckner Road. Side lot lines of adjoining parcels and owner information will be taken from record plats and/or GIS data. If necessary due to inaccessibility, DTM data may be supplemented with TN Map LiDAR elevation data. The survey will comply with the most current version of the TDOT Survey Manual and will be delivered in Microstation DGN format along with utility owner information, TIN file, and GPK file. The following typical TDOT items will NOT be included: 1) Property Owner /R.O.W. Acquisition Table, 2) Roadway and/or Utility Profiles, 3) Locations of Individual trees, 4) Closed property tracts stored in GPK, and 5) Drainage Areas and Labels. Also, it is our understanding that Temporary Traffic Control for work on the roadway will be provided by the City of Spring Hill.

We anticipate project delivery within 4 complete weeks from notice to proceed.

745 S. Church St, Suite 805, Murfreesboro, Tennessee 37130 www.eli-llc.com 615.383.6300
ENGINEERS • SURVEYORS • INFRASTRUCTURE • ENVIRONMENTAL

June 17, 2020

Mr. Mike Biggs, PE
Transportation Engineer Manager
The Corradino Group
7000 Executive Center Drive, Suite 2-250
Brentwood, Tennessee 37027

**Re: Proposal for Geotechnical Exploration Services
Buckner Road Widening
Spring Hill, Williamson County, Tennessee
CIA Proposal No. 2020-050P**

Dear Mr. Biggs:

CIA, LLC is pleased to submit this proposal to provide geotechnical exploration services for the referenced project. This proposal is based on project information provided to us and presents our scope of services, fee, and schedule information.

PROJECT AND BACKGROUND INFORMATION

Initial project information was provided to us by The Corradino Group during a telephone conversation and an email transmission on June 4, 2020 that resulted in a site visit on June 9, 2020. After the site visit, we were provided preliminary drawings showing the location and cross sections of the proposed widening including a retaining wall. We were instructed to provide a geotechnical scope that would be adequate for design of the proposed widening.

Based on the provided drawings, we understand that Buckner Road will be widened from its intersection with Buckner Lane to the west approximately 1000 linear feet. The existing roadway is a two-lane section, approximately 11' lanes, with less than two-foot shoulders. The improvements would add a turn lane the length of the project. This project is associated with the larger planned interstate interchange improvements proposed just east to I-65.

SCOPE OF SERVICES

The goals of this exploration are to generally characterize site geologic conditions, determine lithology, evaluate soil and rock foundation conditions at the retaining wall location(s), and develop earthwork and foundation recommendations for the proposed construction. The assessment of environmental concerns is beyond the scope of the geotechnical exploration.

After review of the preliminary plan provided by Corradino, CIA plans to advance up to 4 borings which include proposed retaining wall locations. All borings will be extended to auger refusal. The overburden at each drilled location will be drive-sampled in general accordance with ASTM D 1586 "Penetration Test and Split-Barrel Sampling of Soils." At select locations, we may attempt to obtain relatively undisturbed samples with thin-walled (Shelby) tubes. We plan to advance one

Exhibit A

boring approximately 10 feet into the underlying rock by means of coring with the intent to extend through weathered rock intervals near the soil-rock interface documenting any irregularities in the coring process such as but not limited to loss in water circulation, rod drops, or other discontinuities in order to identify a competent foundation bearing elevation. Upon completion of boring advancement, each boring will be checked for the presence of groundwater and will then be subsequently backfilled with auger cuttings.

The estimated drilling quantities are presented in the attached cost estimate summary. CIA will monitor the exploration and adjust the exploration program to address any specific needs dictated by the subsurface conditions encountered. We will communicate the observed subsurface conditions to the design team and coordinate any adjustments to the exploration program and associated impacts to the budget and schedule for completion of the geotechnical exploration. No additional work that will require an increase in the budget for the geotechnical exploration will be initiated without prior approval.

Following completion of the field exploration, laboratory testing will be assigned to selected samples to assess the engineering characteristics of the overburden and bedrock. Laboratory index testing will be conducted to determine the natural moisture content, Atterberg limits, and grain size distribution of select soil samples recovered from the drilling operations. Additionally, select rock or soil specimens may be subjected to unconfined compressive strength testing to provide shear strength data to support design efforts. A portion of the strength testing performed on bedrock specimens may include the determination of stress-strain characteristics. Other tests may be required depending upon the subsurface conditions encountered.

No drilling activities will take place without proper coordination with current property owners. CIA will contact the Tennessee One Call System (811), the state-wide utility clearance coordinator for the State of Tennessee, to have the underground utilities marked prior to mobilization of the drilling equipment. The boring locations may be offset from the proposed locations to facilitate access and avoid marked utilities. CIA is not responsible for repair of utilities that are not properly identified by others at the time of our exploration.

A geotechnical report will be issued for the geotechnical exploration, outlining the scope of work performed as well as the results of the exploration and lab testing program. The report will address geotechnical aspects of retaining wall design and construction. The geotechnical reports will present our findings and will address, at a minimum, the following:

- General information regarding the site and subsurface conditions, including soil stratigraphy and bedrock occurrences, as well as groundwater measurements.
- Results of laboratory tests performed on selected samples.
- General comments regarding geology and geologic hazards, such as karst conditions.
- Recommendations for site preparation, including criteria for stripping, excavation, reuse of on-site materials as structural fill, undercutting of suitable materials and subgrade remedial treatments, and criteria for compacted fill.
- Recommendations for retaining wall foundation design and construction.
- Recommendations for embankment design and construction (if applicable).
- Recommendations for temporary and permanent groundwater control, if needed.

Additional comments/conditions upon which this proposal is based are as follows:

- We anticipate that the proposed exploration will be conducted within public right of way and City of Spring Hill property. If access to private property is required, we will make reasonable efforts to gain voluntary permissions for entry from private property owners, where appropriate. Corradino will be notified, as necessary, of any properties where such entry might be denied.
- We will measure from existing landmarks to establish the boring locations during field exploration. Determination of the exact boring locations and ground surface elevations is beyond this scope of services. This proposal does not include provisions for surveying efforts to establish the boring locations.
- Water for drilling purposes will be obtained from adjacent ponds, creeks, or rivers, if required.
- Traffic control will be provided by the City of Spring Hill. CIA will coordinate activities with Corradino or The City of Spring Hill as applicable. A CIA professional will be dedicated to the field work on a full-time basis to coordinate safety procedures and drilling efforts.
- The subsurface exploration will be planned and conducted in accordance with the Tennessee Department of Environment and Conservation General Permit for Surveying and Geotechnical Exploration. As such, installation and monitoring of erosion protection/siltation control measures by both subcontracted and CIA personnel may be required as part of the drilling program.
- The unit prices submitted in this proposal were derived based on the anticipated scope of work assuming the subsurface exploration program would be performed in the 2020 calendar year.
- We will retain the soil samples for 30 calendar days following the submittal of the geotechnical engineering report. After this time, the soil samples may be discarded unless directed otherwise.

FEE SCHEDULE AND AUTHORIZATION

It is our understanding that the geotechnical work will be contracted under a unit price contract. Based on our understanding of the project, our estimated fees are outlined below. A detailed cost estimate is attached.

1.00 Drilling Services	\$4,100.00
2.00 Laboratory Services	\$938.00
3.00 Engineering Services	\$6,660.00
Total Not-to-Exceed Costs	\$11,698.00

We will discuss with you any expected modifications in scope of services and fee if necessary.

Closing

We appreciate the opportunity to support the design efforts for this project and look forward to working with you in the future. If you have any questions, please feel free to contact our office.

Sincerely,
CIA, CIVIL INFRASTRUCTURE ASSOCIATES, LLC



Matt Bullard, PE
Vice President
Director of Geotechnical Services

Attachment:
Cost Estimate

Geotechnical Exploration and Engineering Professional Services
Buckner Road Widening
Spring Hill, Williamson County, Tennessee
The Corradino Group



COST ESTIMATE
6/17/2020

1.0 DRILLING SERVICES

	Qty.		Rate	Cost
1.1 Equipment Mobilization	1	\$ 750.00	each	\$ 750.00
1.2 On-site Project Professional	12	\$ 125.00	per hour	\$ 1,500.00
1.3 Soil Auger Drilling	60	\$ 14.00	per vertical foot	\$ 840.00
1.4 Rock Core Set-up	1	\$ 100.00	each	\$ 100.00
1.5 Rock Coring	10	\$ 42.00	per vertical foot	\$ 420.00
1.6 Water Hauling	1	\$ 250.00	per day	\$ 250.00
1.7 Shelby Tubes	4	\$ 60.00	each	\$ 240.00
SUBTOTAL				\$ 4,100.00

2.0 LABORATORY TESTING SERVICES

	Qty.		Rate	Cost
2.1 Natural Moisture Content	12	\$ 9.00	each	\$ 108.00
2.2 Sieve Particle Size Analysis (ASTM D 422)	2	\$ 80.00	each	\$ 160.00
2.3 Atterberg Limits (ASTM D 4318)	4	\$ 55.00	each	\$ 220.00
2.4 Unconfined Compression Test (Rock)	2	\$ 125.00	each	\$ 250.00
2.5 Unconfined Compression Test (Soil)	2	\$ 100.00	each	\$ 200.00
SUBTOTAL				\$ 938.00

3.0 ENGINEERING SERVICES

	Qty.		Rate	Cost
3.1 Project Initiation, Coordination, and Utility Locates				
3.1.1 Project Professional	2	\$ 125.00	per hour	\$ 250.00
3.1.2 Senior Project Manager	1	\$ 190.00	per hour	\$ 190.00
3.2 Engineering Evaluations, Report Development, Retaining Wall Calculations				
3.2.1 Project Professional	28	\$ 125.00	per hour	\$ 3,500.00
3.2.2 Senior Project Manager	12	\$ 190.00	per hour	\$ 2,280.00
3.2.3 Principal Geotechnical Engineer	2	\$ 220.00	per hour	\$ 440.00
SUBTOTAL				\$ 6,660.00

ESTIMATED TOTAL COST	\$ 11,698.00
-----------------------------	---------------------

Buckner Road Transition Project Schedule with Estimated Time to Complete

Receive NTP from City	
Project Survey & Data Collection ¹	6 Weeks from NTP
Geotechnical Investigation ¹	6 Weeks from NTP
Prepare Preliminary Plans	8 Weeks from Receipt of Survey and Geotechnical Information
Submit Preliminary Plans to City for Review	2 Weeks Review Time
Revise Plans to Address Comments	2 Weeks from Receipt of City's Comments
Develop Final/Construction Plans	10 Weeks after Approval to Proceed by City
Submit Final Plans and Bid Book to City for Review	2 Weeks Review Time
Revise Plans to Address Comments	2 Weeks from Receipt of City's Comments
Estimated Time to Complete	30 Weeks (8 months)

HOLD Project Documents Until Notice to Proceed with Construction by City

Advertise the Project for Construction (Hold Pre-Bid Meeting while advertising)	3 Weeks
Open Bids	1 Day
Review Bids. Advise City of Lowest Bidder	4 Days
Award Project and Begin Construction	

NOTE:

- 1) *Work occurs simultaneously*