



Purchasing Department
140 Stonewall Avenue West, Ste 204
Fayetteville, GA 30214
Phone: 770-305-5420
www.fayettecountyga.gov

September 3, 2021

Subject: Invitation to Bid #2010-B COUNTRY LAKE ESTATES FDR

Gentlemen/Ladies:

Fayette County, Georgia invites you to submit a bid for Full Depth Reclamation of the Country Lakes Estates roads. You are invited to submit a bid in accordance with the information contained herein.

A mandatory pre-bid conference will be held on **9:00a.m., Thursday, September 23, 2021** in the Club House parking lot at 245 Morning Springs Walk, Fayetteville, GA 30214 to provide an opportunity for you to become more familiar with the project, and to ask questions. Only companies that attend will be invited to submit bids for this project.

Questions concerning this invitation to bid should be addressed to Sherry White in writing via email to swhite@fayettecountyga.gov or fax to (770) 719-5544. Questions will be accepted until **2:00pm on Monday, September 27, 2021.**

Purchasing Department office hours are Monday through Friday 8:00am to 5:00pm. The office telephone number is (770) 305-5420.

Please return your response to the following address:

Fayette County Purchasing Department
140 Stonewall Avenue West, Suite 204
Fayetteville, Georgia 30214

Bid Number: #2010-B
Bid Name: COUNTRY LAKE ESTATES FDR

Your envelope *must* be sealed, and should show your company's name and address.

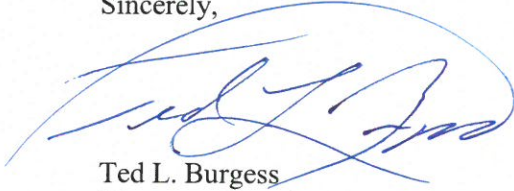
Bids will be received at the above address until 3:00pm on Monday, October 4, 2021 in the Purchasing Department, Suite 204. Bids will be opened at that time.

Bids must be signed to be considered. Late bids cannot be considered. Faxed bids or emailed bids cannot be considered.

If you download this invitation to bid from the county's web site, it will be your responsibility to check the web site for any addenda that might be issued for this solicitation. The county cannot not be responsible for a vendor not receiving information provided in any addendum.

Thank you for participating in the solicitation process.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ted L. Burgess', is written over the printed name and title.

Ted L. Burgess
Director of Purchasing

#2010-B COUNTRY LAKE ESTATES FDR

GENERAL TERMS AND CONDITIONS

1. **Definitions:** The term “contractor” as used herein and elsewhere in these Terms and Conditions shall be used synonymously with the term “successful bidder.” The term “county” shall mean Fayette County, Georgia.
2. **Bid is Offer to Contract:** Each bid constitutes an offer to become legally bound to a contract with the county, incorporating the invitation to bid and the bidder’s bid. The binding offer includes compliance with all terms, conditions, special conditions, specifications, and requirements stated in the invitation to bid, except to the extent that a bidder takes written exception to such provisions. All such terms, conditions, special conditions, specifications, and requirements will form the basis of the contract. The bidder should take care to answer all questions and provide all requested information, and to note any exceptions in the bid submission. Failure to observe any of the instructions or conditions in this invitation to bid may result in rejection of the bid.
3. **Binding Offer:** Each bid shall constitute a firm offer that is binding for ninety (90) days from the date of the bid opening, unless the bidder takes exception to this provision in writing.
4. **Bidder’s Questions:** The Fayette County Purchasing Department must receive questions about this invitation to bid in writing by the date indicated in the invitation to bid cover letter. The county will post answers to questions and/or other information concerning the invitation to bid in the form of an addendum on the county’s website at www.fayettecountyga.gov. It is the responsibility of the prospective bidder to check the website for any addenda issued for this invitation to bid.
5. **References:** Include with your bid a list of three (3) jobs that your company has done that are of the same or similar nature to the work described in this invitation to bid, on the form provided. Include all information as requested on the form.
6. **Bid Submission:** Submit your bid, along with any addenda issued by the county, in a sealed opaque envelope with the following information written on the outside of the envelope:
 - a. The bidder’s company name,
 - b. The bid number, which is #2010-B, and
 - c. The bid name, which is **COUNTRY LAKE ESTATES FDR**.

Mail or deliver one (1) original unbound bid, signed in ink by a company official authorized to make a legal and binding offer, to:

Fayette County Purchasing Department
140 Stonewall Avenue West, Suite 204
Fayetteville, Georgia 30214

You may submit bids in person, by U.S. mail, or by a commercial carrier. Do not submit bids by facsimile, e-mail, or other electronic means. Once submitted, all bids become the property of Fayette County.

7. **Bid Preparation Costs:** The bidder shall bear all costs associated with preparing the bid.
8. **Late Bids:** Bids not received by the time and date of the scheduled bid opening will not be considered, unless the delay is a result of action or inaction by the county.

9. **More than One Bid:** Do not submit alternate bids or options, unless requested or authorized by the county in the Invitation to Bid. If a responder submits more than one bid without being requested or authorized to do so, the county may disqualify the bids from that responder, at the county's option.
10. **Bid Corrections or Withdrawals:** The bidder may correct a mistake, or withdraw a bid, before the bid opening by sending written notification to the Director of Purchasing. Bids may be withdrawn after the bid opening only with written authorization from the Director of Purchasing.
11. **Defects or Irregularities in Bids:** The county reserves the right to waive any defect or irregularity in any bid received. In case of an error in extension of prices or totals in the bid, the unit prices shall govern.
12. **Prices Held Firm:** Prices quoted shall be firm for the period of the contract, unless otherwise specified in the bid. All prices for commodities, supplies, equipment, or other products shall be quoted FOB Destination, Fayette County or job site.
13. **Brand Name:** If items in this invitation for bid have been identified, described or referenced by a brand name or trade name description, such identification is intended to be descriptive, but not restrictive and is to indicate the quality and characteristics of products that may be offered. Alternative products may be considered for award if clearly identified in the bid. Items offered must meet required specifications and must be of a quality which will adequately serve the use and purpose for which intended.
14. **Bidder Substitutions:** Bidders offering substitutions or deviations from specifications stated in the invitation to bid, shall list such substitutions or deviations on the "Exceptions to Specifications" sheet provided, or on a separate sheet to be submitted with the bid. The absence of such list shall indicate that the bidder has taken no exception to the specifications. The evaluation of bids and the determination as to equality and acceptability of products or services offered shall be the responsibility of the county.
15. **Non-Collusion:** By responding to this invitation to bid, the bidder represents that the bid is not made in connection with any competing bidder, supplier, or service provider submitting a separate response to this invitation to bid, and is in all respects fair and without collusion or fraud.
16. **Bid Evaluation:** Award will be made to the lowest responsive, responsible bidder, taking into consideration payment terms, vendor qualifications and experience, quality, references, any exceptions listed, and/or other factors deemed relevant in making the award. The county may make such investigation as it deems necessary to determine the ability of the bidder to perform, and the bidder shall furnish to the county all information and data for this purpose as the county may request. The county reserves the right to reject any bid item, any bid, or all bids, and to re-advertise for bids.
17. **Payment Terms and Discounts:** The County's standard payment terms are Net 30. Any deviation from standard payment terms must be specified in the resulting contract, and both parties must agree on such deviation. Cash discounts offered will be a consideration in awarding the bid, but only if they give the county at least 15 days from receipt of invoice to pay. For taking discounts, time will be computed from the date of invoice acceptance by the County, or the date a correct invoice is received, whichever is the later date. Payment is deemed made, for the purpose of earning the discount, on the date of the check.
18. **Trade Secrets – Confidentiality:** If any person or entity submits a bid or proposal that contains trade secrets, an affidavit shall be included with the bid or proposal. The affidavit shall declare the

specific included information which constitutes trade secrets. Any trade secrets must be either (1) placed in a separate envelope, clearly identified and marked as such, or (2) at a minimum, marked in the affidavit or an attached document explaining exactly where such information is, and otherwise marked, highlighted, or made plainly visible. See O.C.G.A. § 50-18-72 (A)(34).

19. **Trade Secrets – Internal Use:** In submitting a bid, the bidder agrees that the county may reveal any trade secret materials contained in the bid to all county staff and officials involved in the selection process, and to any outside consultant or other third parties who may assist in the selection process. The bidder agrees to hold harmless the county and each of its officers, employees, and agents from all costs, damages, and expenses incurred in connection with refusing to disclose any material which the bidder has designated as a trade secret.
20. **Ethics – Disclosure of Relationships:** Before a proposed contract in excess of \$10,000.00 is recommended for award to the Board of Commissioners or the County Administrator, or before the County renews, extends, or otherwise modifies a contract after it has been awarded, the contractor must disclose certain relationships with any County Commissioner or County Official, or their spouse, mother, father, grandparent, brother, sister, son or daughter related by blood, adoption, or marriage (including in-laws). A relationship that must be reported exists if any of these individuals is a director, officer, partner, or employee, or has a substantial financial interest in the business, as described in Fayette County Ordinance Chapter 2, Article IV, Division 3 (Code of Ethics).

If such relationship exists between your company and any individual mentioned above, relevant information must be presented in the form of a written letter to the Director of Purchasing. You must include the letter with any bid, proposal, or price quote you submit to the Purchasing Department.

In the event that a contractor fails to comply with this requirement, the County will take action as appropriate to the situation, which may include actions up to and including rejection of the bid or offer, cancellation of the contract in question, or debarment or suspension from award of a County contract for a period of up to three years.

21. **Contract Execution & Notice to Proceed:** After the Board of Commissioners makes an award, all required documents are received by the county, and the contract is fully executed with signature of both parties, the county will issue a written Notice to Proceed. The county shall not be liable for payment of any work done or any costs incurred by any bidder prior to the county issuing the Notice to Proceed.
22. **Unavailability of Funds:** This contract will terminate immediately and absolutely at such time as appropriated and otherwise unobligated funds are no longer available to satisfy the obligations of the county under the contract.
23. **Insurance:** The successful bidder shall procure and maintain the following insurance, to be in effect throughout the term of the contract, in at least the amounts and limits as follows:
 - a. **General Liability Insurance:** \$1,000,000 combined single limit per occurrence, including bodily and personal injury, destruction of property, and contractual liability.
 - b. **Automobile Liability Insurance:** \$1,000,000 combined single limit each occurrence, including bodily injury and property damage liability.
 - c. **Worker's Compensation & Employer's Liability Insurance:** Workers Compensation as required by Georgia statute.

Before a contract with the successful bidder is executed, the successful bidder shall provide Certificates of Insurance for all required coverage. The successful offeror can provide the Certificate of Insurance after award of the contract, but must be provided prior to execution of the contract document by both parties. The certificate shall list an additional insured as follows:

Fayette County, Georgia
140 Stonewall Avenue West
Fayetteville, GA 30214

24. **Bid Bond:** You must include a bid bond with your bid, equal to five percent (5%) of the total amount bid. Bid bonds shall be provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
25. **Performance and Payment Bonds:** Prior to execution of a contract, the successful bidder shall submit performance and payment bonds each equal to 100 percent of the contract value, provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
26. **Building Permits:** Work performed for the county requiring building permits by licensed contractors will not have permit fees assessed, although any re-inspection fees for disapproved inspections will be the responsibility of the contractor prior to final inspections and the Certificate of Occupancy or Certificate of Completion being issued.
27. **Unauthorized Performance:** The county will not compensate the contractor for work performed unless the work is authorized under the contract, as initially executed or as amended.
28. **Assignment of Contract:** Assignment of any contract resulting from this invitation to bid will not be authorized, except with express written authorization from the county.
29. **Indemnification:** The contractor shall defend, indemnify and save the county and all its officers, agents and employees harmless from all suits, actions, or other claims of any character, name and description brought for or on account of any damages, losses, or expenses to the extent caused by or resulting from the negligence, recklessness, or intentionally wrongful conduct of the contractor or other persons employed or utilized by the contractor in the performance of the contract. The contractor shall pay any judgment with cost which may be obtained against the county growing out of such damages, losses, or expenses.
30. **Severability:** The invalidity of one or more of the phrases, sentences, clauses or sections contained in the contract shall not affect the validity of the remaining portion of the contract. If any provision of the contract is held to be unenforceable, then both parties shall be relieved of all obligations arising under such provision to the extent that the provision is unenforceable. In such case, the contract shall be deemed amended to the extent necessary to make it enforceable while preserving its intent.
31. **Delivery Failures:** If the contractor fails to deliver contracted goods or services within the time specified in the contract, or fails to replace rejected items in a timely manner, the county shall have authority to make open-market purchases of comparable goods or services. The county shall have the right to invoice the contractor for any excess expenses incurred, or deduct such amount from monies owed the contractor. Such purchases shall be deducted from contracted quantities.
32. **Substitution of Contracted Items:** The contractor shall be obligated to deliver products awarded

in this contract in accordance with terms and conditions specified herein. If a contractor is unable to deliver the products under the contract, it shall be the contractor's responsibility to obtain prior approval of the ordering agency to deliver an acceptable substitute at the same price quoted in the contractor's original bid. In the event any contractor consistently needs to substitute or refuses to substitute products, the County reserves the right to terminate the contract or invoke the "Delivery Failures" clause stated herein.

33. **Termination for Cause:** The county may terminate the contract for cause by sending written notice to the contractor of the contractor's default in the performance of any term of this agreement. Termination shall be without prejudice to any of the county's rights or remedies by law.
34. **Termination for Convenience:** The county may terminate the contract for its convenience at any time with 10 days' written notice to the contractor. In the event of termination for convenience, the county will pay the contractor for services performed. The county will compensate partially completed performance based upon a signed statement of completion submitted by the contractor, which shall itemize each element of performance completed.
35. **Force Majeure:** Neither party shall be deemed to be in breach of the contract to the extent that performance of its obligations is delayed, restricted, or prevented by reason of any act of God, natural disaster, act of government, or any other act or condition beyond the reasonable control of the party in question.
36. **Governing Law:** This agreement shall be governed in accordance with the laws of the State of Georgia. The parties agree to submit to the jurisdiction in Georgia, and further agree that any cause of action arising under this agreement shall be required to be brought in the appropriate venue in Fayette County, Georgia.

Fayette County, Georgia
Checklist of Required Documents

*(Be Sure to Return This Checklist and
the Required Documents in the order listed below)*

ITB #2010-B: COUNTRY LAKE ESTATES FDR

Bid Bonds	_____
Company information – on the form provided	_____
References – on form provided	_____
Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)	_____
Pricing sheet	_____
List of exceptions, if any – on the form provided	_____
Signed Addenda, if any	_____

COMPANY NAME: _____

COMPANY INFORMATION

ITB #2010-B: COUNTRY LAKE ESTATES FDR

COMPANY

Company Name: _____

Physical Address: _____

Mailing Address (if different): _____

AUTHORIZED REPRESENTATIVE

Signature: _____

Printed or Typed Name: _____

Title: _____

Email Address: _____

Phone Number: _____ Fax Number: _____

PROJECT CONTACT PERSON

Name: _____

Title: _____

Office Number: _____ Cellular Number: _____

Email Address: _____

REFERENCES

ITB #2010-B: COUNTRY LAKE ESTATES FDR

Please list three (3) references of current or very recent customers who can verify the quality of service your company provides. Projects of similar size and scope are required.

REFERENCE ONE

Government/Company Name _____

City _____

Contact Person and Title _____

Phone _____ Contract Period _____

Scope of Work _____

REFERENCE TWO

Government/Company Name _____

City _____

Contact Person and Title _____

Phone _____ Contract Period _____

Scope of Work _____

REFERENCE THREE

Government/Company Name _____

City _____

Contact Person and Title _____

Phone _____ Contract Period _____

Scope of Work _____

COMPANY NAME _____

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

The undersigned contractor ("Contractor") executes this Affidavit to comply with O.C.G.A § 13-10-91 related to any contract to which Contractor is a party that is subject to O.C.G.A. § 13-10-91 and hereby verifies its compliance with O.C.G.A. § 13-10-91, attesting as follows:

- a) The Contractor has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program;
- b) The Contractor will continue to use the federal work authorization program throughout the contract period, including any renewal or extension thereof;
- c) The Contractor will notify the public employer in the event the Contractor ceases to utilize the federal work authorization program during the contract period, including renewals or extensions thereof;
- d) The Contractor understands that ceasing to utilize the federal work authorization program constitutes a material breach of Contract;
- e) The Contractor will contract for the performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the Contractor with the information required by O.C.G.A. § 13-10-91(a), (b), and (c);
- f) The Contractor acknowledges and agrees that this Affidavit shall be incorporated into any contract(s) subject to the provisions of O.C.G.A. § 13-10- 91 for the project listed below to which Contractor is a party after the date hereof without further action or consent by Contractor; and
- g) Contractor acknowledges its responsibility to submit copies of any affidavits, drivers' licenses, and identification cards required pursuant to O.C.G.A. § 13-10-91 to the public employer within five business days of receipt.

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

#2010-B COUNTRY LAKE ESTATES FDR

Name of Project

Fayette County GA

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 20____ in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 20____.

NOTARY PUBLIC
My Commission Expires: _____

PROJECT SCOPE
ITB #2010-B: COUNTRY LAKE ESTATES FDR

A. DESCRIPTION

Fayette County (County) requests all qualified contractors to submit formal sealed bids. The contractor will bid on full depth reclamation (FDR), milling and resurfacing of Country Lakes Estates Subdivision in Fayette County using Local Maintenance Improvement Grant funding from Georgia Department of Transportation. Except as noted, this project will follow current Georgia Department of Transportation (GDOT) Specifications and GDOT English Standards and Details except as noted.

A County Road Department Personnel (inspector) will be onsite for the duration of the construction activities. All communication from the contractor will be directed to the inspector.

B. PROSECUTION AND PROGRESS

The contractor must begin work within thirty (30) days of receiving the Notice to Proceed. It is anticipated the Notice to Proceed will be issued in October. The contractor will mobilize with sufficient forces such that all FDR and paving is completed in 60 Days after the NTP is issued. Normal workday for this project shall be 8:00 AM to 7:00 PM (or Dusk whichever comes first) with resurfacing activities to be completed daily by 6:00 PM (or Dusk whichever comes first) and the normal work week shall be Monday through Saturday. The County will consider extended workdays or work weeks on a case by case written request by the contractor. No work will be allowed on national holidays (e.g. Memorial Day, July 4th, Labor Day, etc.) and the associated weekends with these holidays. The contractor shall submit a schedule every Thursday detailing which roads will be worked the following week. The schedule must be emailed to the inspector. The inspector reserves the right to prohibit work on any roads not included in the weekly schedule. This schedule must accurately represent the intended work and cannot be vague or broad such as listing every road in the contract.

The contractor will be assessed liquidated damages in the amount of \$500.00 per calendar day (with the exception of weekends and holidays) for any paving not completed by 60 Days. The contractor is granted twenty (20) available days to complete all items on the punch list once the punch list is issued by the inspector. During this time no liquidated damages will be assessed. If the contractor is already in liquidated damages prior to beginning the punch list then liquidated damages will be postponed for the twenty (20) available days. Once the twenty (20) available days expires then liquidated damages will continue to accrue if contractor fails to complete the punch list.

C. AUTHORITY OF THE ENGINEER

County inspector will be onsite for the duration of the construction activities. The inspector will be responsible for the day to day monitoring of the construction contract in the field, assuring that the County and GDOT specifications are adhered to and that the construction work is in conformance with the intent of this document.

D. PERMITS AND WATER METER

The contractor shall procure all permits and licenses, pay all charges, taxes and fees, and give all notice necessary. This work shall be considered incidental and not paid for separately. Contractor if requiring a water meter must coordinate with the Fayette County Water Department.

E. MATERIALS

The contractor will be responsible for quality control testing of materials incorporated into the project. The inspector will be responsible for quality assurance testing of materials incorporated into the project. Materials test frequency will, at minimum, meet GDOT specifications or as noted in the special provisions. Copies of all test results and documentation will be provided to the contractor. All materials will meet appropriate GDOT Specifications unless otherwise noted. Samples of all materials provided by the contractor will be subject to submittal to the Georgia Department of Transportation Testing Laboratory and/or other approved testing labs; any material found to be non-compliant with the specifications will be rejected. Contractor will be responsible for replacing any materials and work performed from rejected sample lot at no cost to the County.

F. DEVIATION OF QUANTITIES

The quantities given are estimates only and may vary from those indicated by the contract. It is the responsibility of the contractor to inspect the project site before submitting their bid. The County reserves the right to add, delete, increase, decrease or substitute items at any time. The contractor will notify the inspector if additional quantities or line items are needed that is not identified in the contract quantities. At no time will the contractor proceed with work outside the prescribed Scope of Services for which additional payment will be requested without the written authorization of the County. The contractor will not be entitled to an adjustment of the unit price on items which increase or decrease from the original plan quantity.

G. UTILITIES

The contractor shall contact utility companies to identify adjacent utilities prior to beginning construction operations. If any utility identified conflicts with construction operations, the contractor will notify the onsite inspector prior to commencement of construction operations in the affected area.

H. TRAFFIC CONTROL

The contractor shall, at all times, conduct his work so as to assure the least possible obstruction of traffic. The safety and convenience of the general public, the residents along the roadways and the protection of persons and property shall be provided for by the contractor as specified in the State of Georgia Department of Transportation Standard Specifications, Sections 104.05 and 107.09.

Traffic whose origin and destination is within the limits of the project shall be provided ingress and egress at all times unless otherwise specified by the County. The ingress and egress includes entrances and exits via driveways at various properties and access to the intersecting roads and streets. The contractor shall maintain sufficient personnel and equipment (including certified flaggers and traffic control signing) on the project at all times, particularly during inclement weather, to insure that ingress and egress are safely provided when and where needed. Mailboxes and fire hydrants shall not be obstructed from access.

Two-way traffic shall be maintained at all times, utilizing certified flaggers as necessary, unless otherwise specified or approved by the County. Certain subdivision streets are of a width that will require closing the road temporarily during FDR, milling and/or paving operations must be requesting with a one week minimum notice to the County and the Home Owners Association

(HOA). In the event of an emergency situation, the contractor shall provide access to emergency vehicles and/or emergency personnel through or around the construction area.

The contractor shall furnish, install and maintain all necessary and required barricades, signs and other traffic control devices in accordance with the MUTCD and GDOT specifications, and take all necessary precautions for the protection of the workers and safety of the public. All personnel and equipment required for maintaining public convenience and safety will be paid for as part of the Lump Sum Traffic Control pay item.

All existing signs, markers and other traffic control devices removed or damaged during construction operations will be reinstalled or replaced at the Contractor's expense. At no time will the contractor remove regulatory signing which may cause a hazard to the public. Due the nature of this project it will be acceptable for signs to be placed on tri-pods than the traditional sign posts.

I. FULL DEPTH RECLAMATION (FDR)

The Road Department's plan is to Full Depth Reclamation on all the roads in the sub-division that do not have a rock base. All the roads with an existing rock base the plan is to edge mill, mill patch and resurface. Attached is the GeoHydro FDR Mix-Design with Georgia DOT Section 301.3 – Cement Stabilized Reclaimed Base Construction. Project requires a field compressive strength of 300 psi.

- J. The County will use GeoHydro as the engineering firm to perform testing the attached mix-design daily testing and coring reporting the final results of the contractor's completed work. Final grade before resurfacing shall not be deficient in any area by more than ½ inch. The final FDR product shall have a 2 percent crown.
- K. Bituminous Prime will be installed using Georgia DOT Section 412 and be included in the unit cost for Full Depth Reclamation. Residents and the HOA will need to be notified at least 24 in advance for road closures due to bituminous prime installation operations.

L. PAVEMENT MILLING

The milling equipment shall be a power driven, self-propelled machine which is specifically designed to mill and remove a specified depth of existing asphalt pavement. The equipment shall be of size, shape and dimensions so as not to restrict the safe passage of traffic in areas adjacent to the work. Conveyors capable of side, rear or front loading shall be provided together with the necessary equipment to transfer the milled material from the roadway to a truck. Dust control shall be such as not to restrict visibility of passing traffic or annoy adjacent property owners.

The depth of milling throughout the project will be variable. This milling is to make the final resurfaced pavement elevation equal to the gutter edge elevation. The inspector can authorize changes to the overall depth of milling. Milling from the gutter to the centerline of road shall result in an approximate 2% crown except where the road is super-elevated. In super-elevated sections milling shall restore the proper super-elevation amount. If existing asphalt paving extends into the gutters, the contractor shall remove this asphalt. NOTE: It may be appropriate to use "edge milling" (milling of the outside 7 to 8 feet only) on some streets to correct improper crown or for other construction reasons. The inspector will determine when edge milling is appropriate. When edge milling is specified, the contractor will be paid the contract unit price for areas actually milled. The contractor shall be responsible to repair any damage to existing curbs/gutters caused by the contractor's operations at no additional cost to the County.

Milled streets shall be resurfaced no later than 14 calendar days after completion of the milling operation. If the contractor does not pave milled streets within the 14 calendar day period, the inspector shall stop all further milling operations.

The milling operation shall provide a pavement surface that is true to line, grade and cross-section and of uniform surface texture. A ten foot straightedge shall be maintained in the vicinity of the milling operation at all times for the purpose of measuring surface irregularities of the milled pavement surface. The contractor shall provide the straightedge and labor for its use. All irregularities in excess of 1/8" in 10' shall be re-milled at no additional cost to the County. The finished cross slope shall be uniform to a degree that no depressions or misalignment of slope greater than 1/4" in 12' are present when tested with a straightedge placed perpendicular to the centerline. The finished pavement surface will be subject to visual and straightedge inspection. All material generated as a result of the milling operation shall become the property of the contractor. After milling is completed the inspector shall inspect all paving surfaces and all loose and flaking masses of asphalt shall be removed prior to paving start-up. The inspector shall measure all milled areas and determine the total area in square yards for payment.

Morning Springs Walk will need to be 3.5" below the existing curb & gutter to the gab base. This base will need to be watered and compacted before proof roll inspection with the inspector to determine which areas will need to be patched. Once the base is approved for paving the contractor will have 24 hours to complete the paving before a new base inspection will be required.

M. TESTING AND REPAIRING EXISTING PAVEMENT

This work shall consist of (patching) existing pavement areas that have failed or are showing signs of distress. Prior to placing asphalt concrete resurfacing the contractor shall patch and repair all areas marked for repair by the inspector. The inspector and the contractor shall jointly "test roll" all milled pavement areas to identify areas of distress or failure. All broken and unsuitable areas in the existing surface shall be patched, as determined by the inspector prior to placing the asphalt concrete resurfacing. Areas marked by the inspector to be patched shall be cut out in a rectangular form, trimmed to near vertical sides and all loose material removed (2 inch total patch depth). In extreme cases where sub base is in very poor condition the inspector may direct the contractor to provide for a 4 inch total patch depth. The minimum patch width will be seven (7) feet. All patches greater than 7 feet wide will be measured and paid for at the actual width. After the area has been cleaned, it shall be primed or tack coated. The inspector will be responsible for measuring all patch areas. The unit price for mill-patching will include the cost of milling, trucking, asphalt and tack.

N. BITUMINOUS TACK COAT

This work shall consist of the placement of bituminous tack coat during the paving operation. Bituminous tack coat shall be applied between .04 to .06 gallons per square yard. All surfaces shall be cleaned completely and thoroughly before any tack is applied. County is requiring the vertical curb edge to also have tack applied with heights greater than 2". All tack used during asphalt patching will not be paid for separately but shall be included in the contract unit price for 19mm Mill Patching.

O. ASPHALT CONCRETE PAVEMENT

Type mixes to be used are 19mm and 9.5mm Type 2 GP 1 or Blend 1, Including Bituminous Material and H lime on streets so designated.

This work shall consist of the placement of asphalt concrete pavement as directed by the inspector. On pavements that require milling, the contractor must complete placement of asphalt concrete resurfacing within seven (7) days of the milling operation. Any deterioration in the milled pavement that develops prior to being resurfaced shall be repaired at the contractor's expense. If the paving operations are delayed beyond the allowable ten (10) day period the inspector shall re-inspect the paving surface. Any corrective action required shall be performed by the contractor at his expense prior to paving, including additional patching, clean-up, loose asphalt removal, etc.

The outside one (1) foot of overlay may be tapered, as directed by the inspector, to reduce the drop off at the pavement/gutter edge if the final paving is higher than the curb and gutter. The overlay may be tapered toward the gutters, as directed by the inspector, to provide a smooth transition at driveways unless doing so would result in storm water over topping the gutter onto private property. The inspector will direct the construction for the isolated cases where the driveway or side street tie-in must extend further to provide the smooth transition. On streets with curb and gutter, the contractor shall replace driveway "wedges" if removed during other operations.

The plant mix materials from which the asphalt pavement is manufactured and the plant at which it is manufactured shall meet the requirements of the State of Georgia Department of Transportation (GDOT) Standard Specifications Articles 820; 802; 883; 831; 828; and 882.

Authorized personnel shall perform testing of the asphalt mix on a daily basis in accordance with GDOT Standard Specifications. Test results shall be transmitted to the inspector not less than weekly. This work shall be the responsibility of the contractor, is considered incidental to the project and shall not be paid for separately.

Two tickets that meet GDOT Specifications must accompany all delivered materials. Also, the contractor must have the job mix formulas for each contract approved by the inspector prior to project start up.

P. THERMOPLASTIC PAVEMENT MARKINGS

This project doesn't include any thermoplastic markings or raised pavement markers.

Q. RESIDENTAL DRIVEWAY ACCESS

The Contractor shall provide temporary ramps constructed made out of on-site surplus material to provide access to residents for all driveways with depths greater than 1 ½".

R. CLEANUP

Cleanup of roadways is required after each operation, (i.e. milling, patching, resurfacing, etc). Final restoration and clean-up work shall be performed immediately after a street is completed. Sweeping of debris into gutters or sides of roads is not acceptable. All loose debris shall be removed from the roadway surface. Work will not be allowed to proceed and progress payments will be withheld until cleanup has been completed as directed by the inspector.

S. ROAD LIST

Road Name	Length (Miles)	Scope of Work
1. Acorn Ridge	0.60	Edge Milling, Patching and 9.5mm Overlay
2. Bayberry Run	0.54	FDR, 19mm layer and 9.5mm Overlay
3. Bramble Bush Chase	0.19	Edge Milling, Patching and 9.5mm Overlay
4. Camilla Court	0.09	FDR, 19mm layer and 9.5mm Overlay
5. Cherokee Rose Lane	0.17	Edge Milling, Patching and 9.5mm Overlay
6. Fiddlers Ridge	0.30	FDR, 19mm layer and 9.5mm Overlay
7. Morning Springs Walk	1.10	Full Milling, Patching, 19mm layer & 9.5mm Overlay
8. Moss Creek Walk	0.39	FDR, 19mm layer and 9.5mm Overlay
9. Regatta Point	0.05	Edge Milling, Patching and 9.5mm Overlay
10. Scarlett Oak Way	0.09	FDR, 19mm layer and 9.5mm Overlay
11. Shady Brook Lane	0.24	Edge Milling, Patching and 9.5mm Overlay
12. Standing Oak Place	0.35	FDR, 19mm layer and 9.5mm Overlay
13. Treebrooke Way	0.11	Edge Milling, Patching and 9.5mm Overlay
14. Windy Ridge Court	0.13	Edge Milling, Patching and 9.5mm Overlay
15. Winterberry Ridge	0.24	FDR, 19mm layer and 9.5mm Overlay

Mr. Bradley Klinger
Fayette County Road Department
115 McDonough Road
Fayetteville, Georgia 30215

August 18, 2021

**FDR Mix Design Report
Country Lake Subdivision
Fayetteville, Georgia
Geo-Hydro Project Number 200414.10**

Dear Mr. Klinger:

Geo-Hydro Engineers has completed the laboratory full depth reclamation mix design testing for the above referenced project. Bulk samples for full-depth reclamation (FDR) laboratory mix design testing were obtained from the street list provided.

LABORATORY MIX DESIGN TESTING SUMMARY

For this project, we understand that the existing pavement materials consisting of asphaltic concrete and soil will be mixed with Type I Portland cement. Bulk samples that were obtained from different streets with similar characteristics, were thoroughly blended into one composite sample. On each composite sample, we performed laboratory procedures for preparing compressive strength specimens in general accordance with the following standards:

- ASTM D698 "*Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort*"
- ASTM D558 "*Standard Test Method for Moisture Density Relations of Soil Cement Mixtures*", Method B
- ASTM D1633 "*Standard Test Method for Compressive Strength of Molded Soil-Cement Cylinders*", Method A. Georgia DOT requires a field compressive strength of 300 psi.

Amendment percentages were chosen based on our experiences with similar projects and generally based on test requirements of GDOT Test Method GDT-65.

FDR MIX DESIGN:

Country Lake Subdivision

The asphalt was determined to be approximately 2 ½ to 4 ¼ inches in thickness. The asphalt contained no underlying graded aggregate base. The underlying subgrade was found to be a red/brown silty sand. Due to the absence of graded aggregate base, our design is based on 2 ½ inches of the existing asphalt being pre-mixed into the underlying material prior to the mixing of the cement.

The material was amended with Type I Portland cement at rates of 40 and 55 pounds per square yard for a depth of 10 inches which is approximately 5.1 and 7.0 percent of dry weight of the parent material, respectively. The results from our testing are summarized in the following tables:

ASTM D 698 "Standard Test Method for Laboratory Compaction of Soil Using Standard Effort"

Sample Identification	Maximum Dry Density, (pcf)	Optimum Moisture Content, (%)
Bulk Sample with No Treatment	105.5	16.5

ASTM D 558 "Standard Test Method for Moisture Density Relations of Soil-Cement Mixtures"

Sample Identification	Maximum Dry Density, (pcf)	Optimum Moisture Content, (%)
Bulk Sample with 40 lbs/yd ² (5.1%)	108.4	13.8
Bulk Sample with 55 lbs/yd ² (7.0%)	108.2	14.1

ASTM D 1633 "Standard Test Method for Compressive Strength of Molded Soil-Cement Cylinders"

Bulk Sample amended with 40 lbs/yd² (5.4%) Type I Portland Cement for a depth of 10 inches

Sample Identification	Dry Density, (pcf)	Moisture Content, (%)	Age, (days)	Compressive Strength, (psi)	Average Compressive Strength, (psi)
A	101.7	15.3	3	230	-
B	108.4	13.8	7	450	435
C	104.5	18.2	7	420	

Bulk Sample amended with 55 lbs/yd² (7.0%) Type I Portland Cement for a depth of 10 inches

Sample Identification	Dry Density, (pcf)	Moisture Content, (%)	Age, (days)	Compressive Strength, (psi)	Average Compressive Strength, (psi)
A	105.2	16.2	3	355	-
B	108.2	14.1	7	500	475
C	103.6	18.7	7	455	

RECOMMENDATIONS

The following recommendations are based on our visual observations, information obtained during the exploration, and on our experience with similar projects.

Based on the average compressive strength results, utilizing Type I Portland cement at the following amendment rates will yield adequate compressive strength results at 7-days:

2020 Road(s)	Amendment Rate	Mix Depth
Country Lake Estates	40 lbs/yd ²	10 inches

If isolated areas of soft subgrade soils still exist, remixing of these areas at a higher amendment rate may be necessary. If the base materials vary significantly from the materials used in the FDR mix design, the amendment percentages may need to be altered during construction in order to obtain desirable compressive strength results.

In general, we recommend that FDR construction be performed in general accordance with the construction requirements defined by *Georgia DOT Section 301.3 – Cement Stabilized Reclaimed Base Construction* specifications.

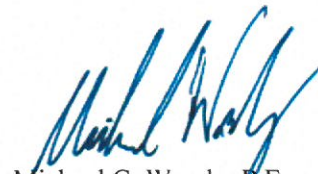
* * * * *

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

GEO-HYDRO ENGINEERS, INC.


William K. Donaldson
CMET Project Manager
wdonaldson@geohydro.com


Michael C. Woody, P.E.
Kennesaw CMT Manager
mwoody@geohydro.com

WKD/MCW/200414.10 Country Lake Estates Mix Design Report

Section 412—Bituminous Prime

412.1 General Description

This work includes preparing and treating an existing surface with bituminous material and blotter material, if required. Treat the surface according to these specifications and conform to the lines shown on the plans or established by the Engineer.

412.1.01 Definitions

General Provisions 101 through 150.

412.1.02 Related References

A. Standard Specifications

Section 424—Bituminous Surface Treatment

Section 821—Cutback Asphalt

B. Referenced Documents

General Provisions 101 through 150.

412.1.03 Submittals

General Provisions 101 through 150.

412.2 Materials

Unless otherwise specified, select the types of bituminous materials. The Engineer will determine the grade of materials to be used. The specifications for the bituminous materials include:

Material	Section
Cutback Asphalt, RC-30, RC-70, RC-250 or MC-250, MC-30, or MC-70	821.2.01
Blotter Material (Sand)	412.3.05.G.3

412.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

412.3 Construction Requirements

412.3.01 Personnel

General Provisions 101 through 150.

412.3.02 Equipment

Provide equipment that is in good repair, including at least the following units that meet the requirements of Subsection 424.3.02, *Equipment*.

- Pressure distributor
- Power broom and blower
- Aggregate spreader (if required)
- Pneumatic-tired roller

Section 412 — Bituminous Prime

412.3.03 Preparation

See Subsection 412.3.05.B, *Condition of Surface*.

412.3.04 Fabrication

General Provisions 101 through 150.

412.3.05 Construction

Prime the following bases and other areas:

- Cement or lime stabilized bases or sub-bases, regardless of pavement thickness
- Soil or aggregate bases or sub-bases on which bituminous surface treatment will be placed
- Soil or aggregate bases or sub-bases on which less than 5 in. (125 mm) total thickness of hot mix asphaltic concrete will be placed

Prime is not required on driveway construction and paved shoulders.

A. Weather Limitations

Do not apply bituminous prime under any of these conditions:

- Surface is wet.
- Air temperature is below 40 °F (4 °C) in the shade.
- Rain is imminent.
- Weather conditions may prevent proper prime coat construction.

B. Condition of Surface

Ensure that the surface to which the prime is to be applied has been finished to the line, grade, and cross-section specified.

Ensure that the surface is uniformly compacted and bonded. Correct surface irregularities according to the specifications for the construction being primed.

C. Cleaning

Remove from the road loose material, dust, caked clay, and other material that may prevent bonding of the prime with the surface. Use power sweepers or blowers the full width of the prime and 2 ft. (600 mm) more on each side. Where necessary, sweep by hand.

D. Moisture

Ensure that the surface is only slightly damp. If the surface is too wet, allow it to dry. If it is too dry, the Engineer may require that it be sprinkled lightly just before priming.

E. Temperature and Surface Texture

The surface texture and condition of the surface determine the bituminous material grades to be used.

The following table shows the bituminous material grades and application temperatures as they are applied to various surface textures.

Base Texture	Tight	Average	Open
Materials and grade	MC-30 RC-30	RC-70 or MC-70	RC-250 or MC-250
Application temperature °F (°C)	80–120 (27–49)	105–180 (41–82)	145–220 (63–104)

The Engineer will determine the temperature for applying bituminous prime within the limits shown above.

Section 412 — Bituminous Prime

Heat and apply bituminous materials as specified in Subsection 424.3.05.D, *Heating Bituminous Material* and Subsection 424.3.05.E, *Applying Bituminous Material*.

F. Amount and Extent of Prime

The Engineer will determine the exact amount of bituminous material to be used within minimum and maximum rates of 0.15 to 0.30 gal/yd² (0.7 to 1.4 liters/m²). Apply the specified amount as follows:

1. Apply the determined amount uniformly and accurately. Ensure that the amount applied to any 0.5-mile (800 m) section is within 5 percent of the amount specified.
2. Apply the prime the full width of the proposed wearing surface that will be superimposed plus 6 in. (150 mm) more on each side.

G. Protection, Curing, and Maintenance

Do the following after priming the surface:

1. Close to Traffic

Do not allow traffic on the primed surface. Leave the surface undisturbed until the prime thoroughly cures and does not pick up under traffic.

2. Roll

If the surface becomes soft after it is primed, roll the surface longitudinally with a pneumatic-tired roller at no more than 6 mph (10 kph) until the surface is firmly set.

3. Blot

If necessary to prevent the prime from being picked up, spread clean, dry, sharp sand over the surface by hand or mechanically. Apply sand only to places that are tacky and use the least amount needed to prevent pick up. No extra payment for this work or material will be made.

4. Open to Traffic

After rolling and sanding (if required), open the primed surface to ordinary traffic subject to the conditions in Subsection 412.3.05.G.1, *Close to Traffic*.

5. Curing and Maintenance

6. The primed surface is properly cured when it has penetrated the base sufficiently to not be picked up or displaced by traffic. Temperature and weather conditions may increase curing time. Insure the primed surface has cured to the satisfaction of the Engineer prior to its being covered by other construction.

7. Maintain the prime coat and the primed surface course until it is covered by other construction. Repair potholes, scabs, and soft spots prior to covering with other construction. Remove excess bituminous material.

412.3.06 Quality Acceptance

General Provisions 101 through 150.

412.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

412.4 Measurement

Bituminous material for prime is not measured for separate payment.

412.4.01 Limits

General Provisions 101 through 150.

Section 412 — Bituminous Prime

412.5 Payment

Bituminous material for prime is not paid for separately. The cost to clean the surface, furnish, haul and apply materials including water and sand, roll, and perform repairs and maintenance is included in the Unit Price bid for each individual Base Item.

412.5.01 Adjustments

General Provisions 101 through 150.

Section 412—Bituminous Prime

412.1 General Description

This work includes preparing and treating an existing surface with bituminous material and blotter material, if required. Treat the surface according to these specifications and conform to the lines shown on the plans or established by the Engineer.

412.1.01 Definitions

General Provisions 101 through 150.

412.1.02 Related References

A. Standard Specifications

Section 424—Bituminous Surface Treatment

Section 821—Cutback Asphalt

B. Referenced Documents

General Provisions 101 through 150.

412.1.03 Submittals

General Provisions 101 through 150.

412.2 Materials

Unless otherwise specified, select the types of bituminous materials. The Engineer will determine the grade of materials to be used. The specifications for the bituminous materials include:

Material	Section
Cutback Asphalt, RC-30, RC-70, RC-250 or MC-250, MC-30, or MC-70	821.2.01
Blotter Material (Sand)	412.3.05.G.3

412.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

412.3 Construction Requirements

412.3.01 Personnel

General Provisions 101 through 150.

412.3.02 Equipment

Provide equipment that is in good repair, including at least the following units that meet the requirements of Subsection 424.3.02, *Equipment*.

- Pressure distributor
- Power broom and blower
- Aggregate spreader (if required)
- Pneumatic-tired roller

Section 412 — Bituminous Prime

412.3.03 Preparation

See Subsection 412.3.05.B, *Condition of Surface*.

412.3.04 Fabrication

General Provisions 101 through 150.

412.3.05 Construction

Prime the following bases and other areas:

- Cement or lime stabilized bases or sub-bases, regardless of pavement thickness
- Soil or aggregate bases or sub-bases on which bituminous surface treatment will be placed
- Soil or aggregate bases or sub-bases on which less than 5 in. (125 mm) total thickness of hot mix asphaltic concrete will be placed

Prime is not required on driveway construction and paved shoulders.

A. Weather Limitations

Do not apply bituminous prime under any of these conditions:

- Surface is wet.
- Air temperature is below 40 °F (4 °C) in the shade.
- Rain is imminent.
- Weather conditions may prevent proper prime coat construction.

B. Condition of Surface

Ensure that the surface to which the prime is to be applied has been finished to the line, grade, and cross-section specified.

Ensure that the surface is uniformly compacted and bonded. Correct surface irregularities according to the specifications for the construction being primed.

C. Cleaning

Remove from the road loose material, dust, caked clay, and other material that may prevent bonding of the prime with the surface. Use power sweepers or blowers the full width of the prime and 2 ft. (600 mm) more on each side. Where necessary, sweep by hand.

D. Moisture

Ensure that the surface is only slightly damp. If the surface is too wet, allow it to dry. If it is too dry, the Engineer may require that it be sprinkled lightly just before priming.

E. Temperature and Surface Texture

The surface texture and condition of the surface determine the bituminous material grades to be used.

The following table shows the bituminous material grades and application temperatures as they are applied to various surface textures.

Base Texture	Tight	Average	Open
Materials and grade	MC-30 RC-30	RC-70 or MC-70	RC-250 or MC-250
Application temperature °F (°C)	80–120 (27–49)	105–180 (41–82)	145–220 (63–104)

The Engineer will determine the temperature for applying bituminous prime within the limits shown above.

Section 412 — Bituminous Prime

Heat and apply bituminous materials as specified in Subsection 424.3.05.D, *Heating Bituminous Material* and Subsection 424.3.05.E, *Applying Bituminous Material*.

F. Amount and Extent of Prime

The Engineer will determine the exact amount of bituminous material to be used within minimum and maximum rates of 0.15 to 0.30 gal/yd² (0.7 to 1.4 liters/m²). Apply the specified amount as follows:

1. Apply the determined amount uniformly and accurately. Ensure that the amount applied to any 0.5-mile (800 m) section is within 5 percent of the amount specified.
2. Apply the prime the full width of the proposed wearing surface that will be superimposed plus 6 in. (150 mm) more on each side.

G. Protection, Curing, and Maintenance

Do the following after priming the surface:

1. Close to Traffic

Do not allow traffic on the primed surface. Leave the surface undisturbed until the prime thoroughly cures and does not pick up under traffic.

2. Roll

If the surface becomes soft after it is primed, roll the surface longitudinally with a pneumatic-tired roller at no more than 6 mph (10 kph) until the surface is firmly set.

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If necessary to prevent the prime from being picked up, spread clean, dry, sharp sand over the surface by hand or mechanically. Apply sand only to places that are tacky and use the least amount needed to prevent pick up. No extra payment for this work or material will be made.

4. Open to Traffic

After rolling and sanding (if required), open the primed surface to ordinary traffic subject to the conditions in Subsection 412.3.05.G.1, *Close to Traffic*.

5. Curing and Maintenance

6. The primed surface is properly cured when it has penetrated the base sufficiently to not be picked up or displaced by traffic. Temperature and weather conditions may increase curing time. Insure the primed surface has cured to the satisfaction of the Engineer prior to its being covered by other construction.

7. Maintain the prime coat and the primed surface course until it is covered by other construction. Repair potholes, scabs, and soft spots prior to covering with other construction. Remove excess bituminous material.

412.3.06 Quality Acceptance

General Provisions 101 through 150.

412.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

412.4 Measurement

Bituminous material for prime is not measured for separate payment.

412.4.01 Limits

General Provisions 101 through 150.

Section 412 — Bituminous Prime

412.5 Payment

Bituminous material for prime is not paid for separately. The cost to clean the surface, furnish, haul and apply materials including water and sand, roll, and perform repairs and maintenance is included in the Unit Price bid for each individual Base Item.

412.5.01 Adjustments

General Provisions 101 through 150.

PRICE SHEET

ITB #2010-B: COUNTRY LAKE ESTATES FDR

DESCRIPTION	UNIT	ESTIMATED EQUANTITY	UNIT PRICE	EXTENDED PRICE
Mobilization	LS	1		
Traffic Control	LS	1		
Full Depth Reclamation	SY	29669		
Cement	TN	593		
Binder layer 19mm @ 220lbs/sy	TN	5055		
Mill Patching 19mm @ 220lbs/sy	TN	1315		
9.5mm Type 2 @ 165lbs/sy	TN	5095		
Tack	GAL	7115		
Surface Milling	SY	29160		
TOTAL NOT TO EXCEED PROJECT PRICE				

NOTES:

1. All applicable charges shall be included in your prices, including but not limited to materials, equipment, installation, labor, and any other amounts. No additional charges will be allowed after the bid opening.

State time need to start project after the Notice to Proceed is received: _____(if < 30 days)

COMPANY NAME _____

EXCEPTIONS TO SPECIFICATIONS

ITB #2010-B: COUNTRY LAKE ESTATES FDR

If there are *ANY* exceptions or clarification(s) taken to the specifications of this bid, use this sheet and list the items you are taking an exception on. ANY exception(s) shall be explained in full.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

COMPANY NAME _____