

City of Jonesboro
Invitation to Bid - Not an Order

P.O. Box 1845
 515 West Washington Ave.

Purchasing Office
 Bid No. 2006:37

Jonesboro, Arkansas 72403
 Date April 6, 2006

Sealed bids, subject to the conditions on the reverse hereof, and as may be attached hereto, will be received at this office until 2:00pm Wed, Apr. 26, 2006 and then publicly opened, for furnishing the supplies, materials and/or services as described below and tabulated for presentation to the City Council on _____.

F.O.B. Job Site
 Maximum Delivery or completion time after issuance of Purchase Order or work ordered by the City see below days.

By: **Steve A. Kent**
 Purchasing Agent
 (870)932-0740

Item #	Description	Quantity	Unit	Unit Price	Amount
	<p>Specifications for installing a parking lot at Craighead Forest ATV section (off Craighead Forest Road). All work must meet City's specifications. A bid bond and performance bond will be required on this job.</p> <p>There are 26 pages to this bid. Bidder shall inspect packet to make sure all are included. This page and price pages must be returned to complete bid or bid will be rejected. Total sum of all pages are not required on submission.</p> <p>Bid <u>must</u> be signed or bid will be rejected. Bid number (2006:37) <u>must</u> be annotated on bidder's envelope. All prices shall be stated in the provided blank in specifications.</p> <p>Bidder shall submit a copy of their Arkansas State Contractor's License to qualify for award of this bid. License required. Bid will be rejected if not received with this bid.</p> <p>After proper curing, successful bidder shall remove forms and shall backfill to existing grades and shall clean up area. The contractor shall perform hot & cold weather concreting in accordance with ACI specifications 306.1-90, 306R-88, and 305R-99.</p> <p>The Contractor shall be responsible for the payment of any and all sub-contractors, supplies and equipment. Under no circumstances shall the City be liable for these costs.</p> <p>The Contractor shall be responsible for all utility locates before each job and provide traffic control when necessary.</p> <p>The Contractor shall be responsible for any and all damages made by the Contractor. Under no conditions will the City be responsible once the scope of the job is given.</p> <p>The contractor shall use elevations shown on the plans.</p> <p>The City of Jonesboro reserves the right to accept or reject any or all or any part of any bid received.</p> <p>Project shall be completed within 60 days of receipt of Notice to Proceed. Failure to do so shall result in a \$100.00 per day penalty until job is complete.</p> <p>Fax number: <u>870-932-1731</u> Payments on jobs shall be made using the City of Jonesboro's bill paying schedule. Successful vendor will submit all completed paperwork to the City using this schedule for payment.</p> <p>Email address: <u>alvincrabtree@yahoo.com</u></p> <p>Any addendums to this bid will be posted no later than 1 week before bid opening at www.jonesboro.org and by clicking on "Purchasing".</p> <p>Cash Discounts _____ % _____ Days</p>				

CELL PH.
 919-4712

Execution of Bid

Date _____

We, the undersigned, have read all the requirements set forth in this bid proposal including specification, instructions, conditions and pertinent information regarding the articles being bid on, and we agree to furnish articles at the prices stated.

Arkansas Use Tax Register No. _____ Phone # (870) 932 4731

Bidder Alvin Crabtree Address 499 CR 383

By Alvin Crabtree owner City Bono ark 72416
 (Person Authorized to Sign Bids) (Title)

Unsigned Bids Will Be Rejected

Bids number **MUST** be annotated on Bidder's envelope.
 Bids are subject to rejection unless submitted on this form.
Notice to bidders: See reverse side for instructions and conditions.

CITY OF JONESBORO, ARKANSAS

CONDITIONS OF BIDDING

COMPLIANCE WITH THE FOLLOWING CONDITIONS IS NECESSARY FOR CONSIDERATION OF THIS BID:

1. **SIGNATURE** - This bid must be signed with the firm name and by an authorized officer, employee, or agent.
2. **SALES OR USE TAX** - is not to be shown in the bid price (unless otherwise stated) but is to be added by the vendor to the invoice billing to the City. The City is not exempt from Arkansas State Sales & Use Tax. Although Use Tax is not included in this bid, vendors are to register and pay tax direct to the Arkansas State Revenue Department.
3. **FREIGHT & OTHER DELIVERY CHARGES** - to designated City facility in Jonesboro must be included in bid. Charges may not be added after the bid is opened.
4. **DISCOUNTS** - Show rate, total amount, and latest day any discounts will be allowed after receipt of article and invoice, otherwise City will deduct allowed discount when payment is made.
5. **FIRM PRICE** - All prices quoted will remain firm for at least 30 days from date of bid, unless otherwise specified by the City or bidder.
6. **IDENTICAL BIDS** - In the event of two or more identical low bids, the contract may be awarded arbitrarily or for any reason to any of such bidders or split in any proportion between the said two or more bidders at the discretion of City.
7. **LIQUIDATED DAMAGES** - Liquidated damages shall be assessed beginning on the first day following the maximum delivery or completion time entered on this bid form and/or provided for by the plans and specifications.
8. **AMBIGUITY IN BID** - Any ambiguity in any bid as the result of omission, error, lack of clarity or non-compliance by the bidder with specifications, instructions, and all conditions of bidding shall be construed in the light most favorable to the City.
9. **CONSTRUCTION** -
 - A. When noted, the Contractor is to supply the City with evidence of having and maintaining proper and complete insurance, specifically Workman's Compensation Insurance in accordance with the laws of the State of Arkansas, Public Liability and Property Damage. All premiums and cost shall be paid by the Contractor. In no way will the City be responsible in case of accident.
 - B. When noted, a Certified check or bid bond in the amount of 5% of total bid shall accompany bid.
 - C. A performance Bond equaling the total amount of any bid exceeding \$3,000.00 must be provided for any contract for the repair, alteration or erection of any public building, public structure or public improvement (pursuant to Ark. Stat. SS51-632.SS51-565 as amended.)
10. The City reserves the right to reject any and all bids, to accept in whole or in part, to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications in those cases where efficiency of operation will not be impaired, and unless otherwise specified by the bidder, to accept any item in the bid. If unit prices and extensions thereof do not coincide, the City may accept the bid for the lesser amount whether reflected by the extension or by the correct multiple of the unit price.
11. **Minority Business Policy** - It is the policy of the City of Jonesboro that minority business enterprises shall have the maximum opportunity to participate in the city purchasing process. Therefore, the City of Jonesboro encourages all minority businesses to compete for, win and receive contracts for goods, services, and construction. The city also encourages all companies to subcontract portions of any city contract to minority business enterprises.

INSTRUCTIONS TO BIDDERS

(PLEASE READ CAREFULLY)

1. Submit bid on bid form on reverse side of this sheet. NO Facsimiles will be accepted.
2. Address all bids to: Purchasing Agent, P.O. Box 1845, Jonesboro, Arkansas 72403-1845 and make certain to indicate identifying bid number on the outside of bidder's envelope.
3. DO NOT include Federal Excise Tax in bid. City will furnish exemption certificate.
4. State Manufacturer, Brand Name, Model, etc for each item bid on.
5. Samples of items, when required, must be furnished free, and, if not called for within 30 days from date of bid opening, will be disposed of by City
6. Bids received after stated time will not be considered.
7. Be sure and read all conditions and verify amounts before submitting bids. No changes or additions will be allowed after submission.
8. Guarantees and warranties should be attached as a part of the bid as they may be a consideration in awarding a contract.
9. Delivery or contract completion time is to be shown, as this date may, where time is of the essence, determine the contract award.
10. Additional information may be obtained from the Purchasing Office.

THE CITY RESERVES THE RIGHT TO ACCEPT PART OR ALL OF ANY SPECIFIC BID OR BIDS AND TO ACCEPT ANY BID WITH OR WITHOUT TRADE-IN. THE CITY FURTHER RESERVES THE RIGHT TO REJECT ALL BIDS, OR PART OR ALL OF ANY SPECIFIC BID OR BIDS.

Click on Purchasing at www.jonesboro.org for any additional information.

**ATV PARKING LOT
UNIT PRICE SCHEDULE**

Item No.	Estimated Quantity	Description of Items and Unit or Lump Sum Price Bid	Total Amount
		<u>Fifty-four thousand Five hundred ninety-seven + 57/-</u> (Dollar Amount Written in Words)	<u>\$54,597.57</u> (Total in Figures)
1.04a	Lump Sum	Site Preparation, including demolition, removal and disposal of drainage structures, and other obstructions, concrete and asphalt <u>Ten thousand + 00/100</u> dollars	<u>\$ 10,000.00</u>
2.09a	Lump Sum	Unclassified Excavation <u>Six thousand + 00/100</u> dollars	<u>\$ 6,000.00</u>
2.09b	300	Cubic Yard, Borrow Material <u>Nine hundred + 00/100</u> dollars (3.00) /C.Y.	<u>900.00</u>
3.06a	1,250	Tons, Aggregate (Class 7) <u>Seventeen thousand Five hundred + 00/100</u> dollars (14.00) /Ton	<u>17,500.00</u>
SP-2.05a	90	Shot Rock Barriers <u>Ten thousand + 80/100</u> dollars (111.12) /Each	<u>10,000.80</u>
7.05b	92	Square Yards, Concrete Driveways (4" Depth) <u>Three thousand two hundred Eleven + 72/100</u> dollars (34.91) /S.Y.	<u>3,211.72</u>
14.07a	300	Square Yards, Solid Sodding <u>One thousand eighty + 00/100</u> dollars (3.60) /S.Y.	<u>1,080.00</u>
14.07b	35	Cubic Yard, Topsoil <u>Two hundred twenty-five + 05/100</u> dollars (6.43) /S.Y.	<u>225.05</u>
19.04	Lump Sum	Clean Up <u>Three thousand five hundred + 00/100</u> dollars	<u>3,500.00</u>
24.03b	70	Each Bale, Baled Straw Filter Barriers <u>Two hundred eighty + 00/100</u> dollars (4.00) /Bale	<u>280.00</u>
24.03c	210	Linear Feet, Filter Fabric Barriers <u>Five hundred twenty-five + 00/100</u> dollars (2.50) /L.F.	<u>525.00</u>
34.05a	125	Linear Feet, Replacement of Fence <u>Thirteen hundred Seventy-five + 00/100</u> dollars (11.00) /L.F.	<u>1375.00</u>
TOTAL BASE BID			<u>\$ 54,597.57</u>

Deductive Alternate

The owner may elect to accept Deductive Alternate listed below. If accepted, the extension will be made by the Engineer.

Bid Item

SP-2.05a Deduct 90 Shot Rock Barriers placed on project
Shot Rock Barrier @ \$ 111.25 /Each. = \$ 10,000.80

TOTAL BID, ACCEPTING DEDUCTIVE ALTERNATE ----- \$ 44,596.77

License No. 0131640806

State of Arkansas

Contractors Licensing Board

ALVIN CRABTREE, D/B/A ALVIN CRABTREE & SON
499 CR 383 RD
BONO, AR 72416

ALVIN CRABTREE, D/B/A ALVIN CRABTREE & SON

This is to Certify That

is duly licensed under the provisions of Act 150 of the 1965 Acts as amended and is entitled to practice Contracting in the State of Arkansas within the following classification:

SPECIALTY

Base, Paving

Concrete

Grading, Drainage

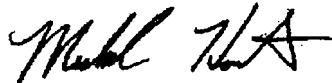
Underground Piping, Cable, Trenching,
Boring

with the following suggested bid limit \$300,000

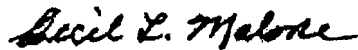
from September 23, 2005 until August 31, 2006

when this Certificate expires.

Witness our hands of the Board, dated at North Little Rock, Arkansas:



CHAIRMAN



SECRETARY

September 23, 2005



BID REQUEST TRANSMITTAL FORM

Date: 4/6/06

TO: PURCHASING AGENT

FROM: Parks & Recreation Dept. REFERENCE: ATV Parking Area
at Craighead Forest Park
(items to be purchased)

We have thoroughly examined and approved the attached specifications, plans, and documents, and herewith request that your office advertise for bids on the above job or item shown. No standard product, reputable dealer, or reputable contractor has been written out of these plans and specifications.

Only source items must be explained: _____

(add additional sheets if needed)

SPECIFICATIONS PREPARED BY: _____
Signature

APPROVED BY: _____
Signature

List possible vendors below: *(See File)*

Name	Address	City, State, Zip
------	---------	------------------

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Funds for this project have been approved as follows:

A.	\$ _____	_____	_____
	Operating Budget	Department	Acct. No.
B.	\$ <u>58,000</u>	AHTD Grant	<u>07 000 0500 05</u>
	Special Approp.	Description	Acct. No.

Funds approved by: _____ \$ _____
Director of Finance

Specifications reviewed by: _____
Purchasing Agent

SECTION 1 - SITE PREPARATION

1.01 Description

(a) Site preparation shall cover, but not be limited to the following areas:

- (1) Area to be occupied by the improvements
- (2) Necessary abutting work areas
- (3) Any site for disposal of unsatisfactory excavated material
- (4) Haul roads or streets, and
- (5) Areas within the project that are used by the Contractor for storage areas.

(b) In the areas described in Subparagraph (a) (1), the Contractor shall remove and dispose of all trees, roots, shrubs and other vegetation; all debris of whatever nature; all side drains or cross drains; all steps or walks; and all fences or other obstructions on the site of the project which interfere with the construction of improvements.

(c) Removal and disposal of existing side drains or cross drains shall be in accordance with stipulations as follow:

- (1) Removal shall be done in a manner as to minimize damage to the drainpipes.
- (2) Salvageable materials shall be stacked neatly within the street right-of-way, or delivered to a central location, as directed by the Engineer.
- (3) Material unsuitable for salvage shall be disposed of by the Contractor. When the Contractor and the Engineer agree that the material is unsuitable for salvage, Subparagraph (c) (1) shall not apply.

(d) Any ornamental trees, shrubs, or flowers which are to be transplanted by the Owner will be completed ahead of the Contractor's operation. The Contractor's attention is directed to the fact that the alignment of the proposed streets was established in such a manner as to minimize the clearing of trees, shrubs, or other desirable plants. In general, trees known to interfere with the construction operations are shown on the plans. The Contractor shall determine for himself the extent of the work involved in Subparagraph 1.01 (b) and shall be prepared to remove all trees or other such obstructions as necessary for the construction operation.

(e) The relocation of shrubs by the Contractor shall be in accordance with SECTION 15 - SHRUBBERY RELOCATION AND HEDGE RELOCATION.

(f) It shall be the responsibility of each bidder to examine the site carefully in order to make his own determination, at the time of bid preparation, of the costs that will be incurred by reason of the requirements under Section 1 - Site Preparation. The Contractor will not be allowed compensation, additional to that herein provided, because of any claim concerning any stipulation of this paragraph.

1.02 Intermittent Cleanup

The Contractor shall, periodically and as directed by the Engineer during the progress of the work, put the entire work site in a neat and clean condition, including the removal, from the job site, all discarded material, rubbish, debris, and surplus material. See Section 19 - Cleanup.

1.03 Method of Measurement

Site preparation will be measured as a complete item.

1.04 Basis of Payment

(a) Site preparation acceptably completed and measured as provided above will be paid for at the contract lump sum price bid for "SITE PREPARATION," which price shall be full compensation for mobilization within project work areas, removal and disposal items, providing and maintaining temporary field office, providing barricades, lights, and watchmen, and any other items required by this specification; furnishing all materials and for all equipment, tools, labor, and incidentals necessary to complete the work.

Periodic payments will be made under this item in proportion to the amount of work accomplished, as determined by the Engineer.

Payment will be made under:

Item 1.04a Site Preparation - per lump sum

SECTION 2 - EARTHWORK

2.01 Description

(a) This section includes all earthwork necessary for the construction of streets, sidewalks, curb and gutter, ditches and site work within the project area.

(b) This section includes the excavation, embankment construction, filling, and compacting of material required for the construction outlined in 2.01(a) above and the disposal of material unsuitable for such construction.

(c) This section does not include the excavation and backfill of structures. Excavation and backfill of structures is included under SECTION 12 - UNCLASSIFIED EXCAVATION FOR STRUCTURES of these specifications.

2.02 Standard Specifications

(a) All work shall be in accordance with the lines and grades shown on the plans, or as directed by the Engineer, and with applicable portions of SECTION 210 - EXCAVATION AND EMBANKMENT, and SECTION 212 - SUBGRADE of the Standard Specifications, except as modified or augmented herein.

(b) All excavation performed under this Section, regardless of the material encountered, shall be classified as unclassified excavation, except for ditch excavation described below.

(c) The ditch excavation for channel changes or to bring ditches to minimum required section shall be in accordance with applicable portions of the Standard Specifications referred to under 2.02(a) above.

(d) In areas of a ditch requiring no excavation, Subparagraph 1.01 shall apply to the extent that all trees, shrubs, heavy vegetation, or any other obstructions to water flow shall be removed as directed by the Engineer.

(e) All ditch excavation shall be completed to the required grade shown on the Plans or as directed by the Engineer.

2.03 Over-Excavation

Where excavation is carried below or beyond that required, the space shall be filled to grade with suitable material and thoroughly compacted as directed by the Engineer. The Contractor will not be entitled to additional compensation for such over-excavation or the necessary refilling, unless the Owner or its agent is responsible for the error.

2.04 Use of Suitable Excavation

(a) Suitable excavation shall be used for embankment construction, and where needed, for backfilling.

(b) Embankment construction and backfills will not be measured for separate payment, but will be considered subsidiary work pertaining to the several items of the Contract.

(c) Suitable excavation not needed for work described in 2.04(a) above shall be disposed of by the Contractor off site.

(d) Excavation unsuitable for use shall be disposed of by the Contractor off site.

(e) The Contractor is expected to construct embankment from suitable excavated material, and it may be necessary to stockpile a portion or all of this material for later use. The stockpiling and rehandling will not be paid for separately and the Contractor shall include this cost in "Unclassified Excavation." The Contractor will be required to replace with suitable borrow material, at no additional compensation, any suitable excavated material needed for the work which may be permanently wasted.

2.05 Compaction of Earthwork

(a) Compaction shall be in accordance with applicable parts of PARAGRAPH 210.09 and SECTION 210 - EXCAVATION AND EMBANKMENT of the Standard Specification, except as herein modified.

(b) All compaction shall be to a density not less than ninety-five percent (95%) of maximum density, at optimum moisture, obtained in the laboratory. Samples for laboratory tests and field determination will be taken by the Engineer and at the expense of the Owner, except that the Contractor shall assist the Engineer in the making of field determinations. (modified)

(c) The moisture-density relationship of the material shall be determined in the laboratory in accordance with AASHTO Designation T 180, modified to use material passing a 3/4-inch sieve. The field determination of material in place shall be in accordance with AASHTO Designation T 191, or T 205, or T 238.

(d) The Contractor will not be required to furnish a field laboratory.

2.06 Borrow Material

(a) Borrow material, when required, shall be in accordance with SECTION

210 - EXCAVATION AND EMBANKMENT of the Standard Specifications.

(b) The Contractor shall obtain the source, or sources, of borrow material and shall pay all royalty charges in connection therewith.

(c) The Contractor shall obtain written permission from the Owner for the use of haul roads within the City. Both within and outside the City, he shall maintain the haul route free from spillage by his vehicles. He shall clean the haul route surface as often as necessary to avoid the creation of a public nuisance. He shall repair and restore the surface of all haul roads which have been damaged by his operations.

2.07 Subgrade

(a) Subgrade for concrete sidewalks and steps shall be in accordance with requirements specified in SECTION 9 - CONCRETE SIDEWALKS AND STEPS.

(b) Preparation of subgrade will not be measured for separate payment, but shall be considered subsidiary work pertaining to the several items of the Contract.

(c) When excavation to the finished grade section results in a subgrade or slopes of unsuitable soil, the Engineer may require the Contractor to remove the unsuitable materials and backfill to the finished graded section with "B" stone. Payment will be as per Section 23, "B" Stone. The Engineer may designate as unsuitable those soils that cannot be properly compacted.

2.08 Method of Measurement

(a) Unclassified excavation for street construction and site grading as well as for curb and gutter, and ditch or channel excavation, which by necessity is included in the street excavation, has been computed from the original cross sections and the proposed typical section. This will be the quantity used for final payment with the exception that revisions will be made for adjustment in the profile or typical section during the construction of the project.

(b) Unclassified excavation for sidewalks, steps, and storm drainage will not be measured for separate payment. Unclassified excavation of 4-inch topsoil for solid sod will not be measured for separate payment, but will be considered subsidiary to the item "SOLID SOD."

(c) Borrow material will be measured by the cubic yard, truck measure, at the points of delivery to the site.

(d) Compaction of earthwork will not be measured for separate payment but will be considered subsidiary to the several items of the Contract.

2.09 Basis of Payment

(a) Unclassified Excavation, as specified in this paragraph, will be paid for at the contract unit price bid per cubic yard for "UNCLASSIFIED EXCAVATION" which price shall be full compensation for all excavation, except excavation for structures; for the formation of embankment; for disposal of unsuitable material; for compaction and preparation of subgrade; and for all equipment, tools, labor and incidentals necessary to complete the work.

(b) Borrow material will be paid for at the contract unit price per cubic yard for "BORROW MATERIAL," which price shall be full compensation for furnishing all materials; for all work necessary in procurement of the material; for loading and hauling; for forming embankment; compaction of embankment; and for all labor, equipment, tools and incidentals necessary to complete the work.

(c) Payment for "UNCLASSIFIED EXCAVATION" and "BORROW MATERIAL" will be made in proportion to the amount of work complete to date, but in no event will the amount exceed the percentage shown in the following payment schedule:

PAYMENT SCHEDULE

		<u>Partial Estimates</u>
(1)	Street Section to Subgrade Elevation	80%
(2)	After Base Course Dumped and Spread	10%
(3)	After Erosion Control Items (Solid Sodding, Sod Mulch, Seeding, etc.) are Completed	10%
TOTAL		100% Of Bid Price

Payment will be made under:

2.09a Unclassified Excavation - per cubic yard

2.09b Borrow Material - per cubic yard

SECTION 3 - AGGREGATE BASE COURSE

3.01 Description

This section covers all work in connection with the construction of Aggregate Base Course of the class or classes specified in the plans.

3.02 Standard Specifications

Material and work for aggregate base course shall be in accordance with SECTION 303 - AGGREGATE BASE COURSE, of the Standard Specifications for the class or classes specified in the plans unless modified or augmented herein.

3.03 Tests

Material will be acceptable from quarries or crushing plants which currently are, or recently have been, supplying material meeting the Standard Specifications for Aggregate Base Course. In-place density shall be determined by AASHTO T 191, T 205, or T 238 of not less than ~~100%~~ of max density determined in the laboratory by AASHTO T180. (98% modified)

3.04 Maintenance

The Contractor shall maintain the base course until and during the construction of the subsequent base or surface course. Defects that develop in the base course shall be repaired by the Contractor at the Contractor's own expense.

3.05 Method of Measurement

(a) Aggregate Base Course will be measured by the ton of two thousand (2,000) pounds, as determined by weighing on accurate, approved scales as described in Article 109.01(f), Standard Specifications. Each truck shall bear a plainly legible identification number and, upon being weighed, shall be given two (2) copies of a delivery ticket which will have on it the number of the truck, time of departure, truck weight, combined weight, and project name. The Engineer shall receive a copy of each delivery ticket for the computation of pay quantities.

3.06 Basis of Payment

(a) Aggregate Base Course, acceptably completed and measured as provided above, will be paid for at the contract unit price per ton for "AGGREGATE BASE COURSE CLASS _____," which price shall be full compensation for furnishing the material; for hauling, placing, spreading, and compacting; and for all equipment, tools, labor, and incidentals necessary to complete the work.

SECTION 7 - DRIVEWAYS, DRIVEWAY EXTENSIONS AND APRONS

7.01 Description

This section covers the construction of Driveways, Driveway Extensions, and Aprons to the lines and grades shown on the Plans or as directed by the Engineer.

7.02 Materials

(a) The construction material of driveway extensions shall generally conform to the material of the existing driveways. The beginning portion of the driveway between the curb and right-of-way line shall be of Portland Cement Concrete Pavement.

(b) Materials for Concrete Driveways, Driveway Extensions, and Aprons shall be in accordance with SECTION 505 - PORTLAND CEMENT CONCRETE DRIVEWAY of the Standard Specifications.

(c) Materials for Asphalt Driveway Extensions shall be in accordance with applicable portions of SECTION 4 - AGGREGATE BASE COURSE, SECTION 5 - PRIME COAT AND TACK COAT, AND SECTION 6 - ASPHALT SURFACE, BINDER, AND ASPHALT STABILIZED BASE COURSE of these specifications.

(d) Materials for gravel driveways shall be in accordance with SECTION 4 - AGGREGATE BASE COURSE.

7.03 Construction Methods

The construction of driveways shall be in accordance with applicable sections of these Specifications for the type of construction material specified. Sections considered applicable are as follows:

SECTION 3 - EARTHWORK
SECTION 4 - AGGREGATE BASE COURSE
SECTION 6 - ASPHALT SURFACE, BINDER, AND ASPHALT
STABILIZED BASE COURSE

7.04 Method of Measurement

(a) Concrete Driveways, Driveway Extensions, and Aprons will be measured by the square yard.

(b) Asphalt driveway extensions shall be measured and paid for as set forth in SECTION 4 - PRIME COAT AND TACK COAT and SECTION 6 - ASPHALT SURFACE, BINDER, AND ASPHALT STABILIZED BASE COURSE.

(c) Gravel driveway extensions shall be measured and paid for in accordance with SECTION 4 - AGGREGATE BASE COURSE.

7.05 Basis of Payment

(a) Concrete Driveways, Driveway Extensions, and Aprons acceptably completed and measured as provided above will be paid for at the contract unit price per square yard bid for "CONCRETE ALLEY APRONS AND DRIVEWAYS (6" thick)" or "CONCRETE DRIVEWAYS (4" thick)" as applicable, which price shall be full compensation for furnishing all materials, including reinforcing steel that might be required, for preparation of the subgrade; and for all equipment, tools, labor, and incidentals necessary to complete the work.

Payment will be made under:

7.05a Concrete Alley Aprons and Driveways (6") - per square yard

7.05b Concrete Driveways (4") - per square yard

SECTION 14 - SOLID SODDING

14.01 Description

- (a) This section covers the furnishing and placing of and to form solid mats on areas shown on the Plans or as directed by the Engineer.
- (b) It covers the furnishing and applying of water for sod.
- (c) It covers the furnishing and placing of four (4) inches of topsoil on areas directed by the Engineer.
- (d) It covers the furnishing and placing of fertilizer.
- (e) All work shall be in accordance with details shown on the Plans and with these Specifications.

14.02 Standard Specifications

Materials and work shall be in accordance with SECTION 624 - SOLID SODDING of the Standard Specifications, except as herein modified or augmented.

14.03 Materials

- (a) Solid sod shall be cut from well-established viable Bermuda grass.
- (b) Topsoil shall be reasonably free from subsoil, clay, lumps, brush, objectionable weeds, and/or other litter and shall be free from roots and toxic substances or other material or substances that might be harmful to plant growth or be a hindrance to grading, planting, and maintenance operations. **ALL TOPSOIL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACING.**
- (c) Fertilizer shall be a standard commercial product complying with state and federal fertilizer laws and with the requirements issued by proper authorities.
 - (1) Fertilizer shall be delivered to the site in the manufacturer's original container, on which shall be plainly marked the manufacturer's name and the guaranteed chemical analysis.
 - (2) Except as noted in the following sentence, fertilizer shall contain not less than the percentages by weight of ingredients as follows:

Nitrogen	12 percent
Phosphorus, P205	12 percent

Other 1:1:1 ratio fertilizers may be used, provided the available plant food remains the same as herein specified.

(3) All fertilizer shall be solid and shall be in a condition which will permit proper distribution.

14.04 Construction Methods

(a) In this Paragraph 14.04, "Solid Sod" is interchangeable with the word "sod."

(b) Solid sod or topsoil shall not be placed until all other items of work are complete.

(c) Areas to be sodded shall be shaped in such manner that they will, after placement of sod, conform to the typical sections.

(d) Topsoil will not be used unless authorized by the Engineer, specifically in each case.

(e) Prior to placing the topsoil in the areas designated, the ground surface shall be cleared of materials that might hinder proper grading, tillage, or subsequent maintenance operations such as stumps, stones, roots, cable, wire, grade stakes, etc., and brought to four (4) inches below the finished grade. The areas shall then be thoroughly tilled to a depth of at least two (2) inches by plowing, disking, harrowing or other acceptable means.

(f) The Contractor shall then obtain an approved topsoil from any available source and place uniformly on the designated areas and spread evenly to a minimum thickness of four (4) inches. Irregularities in the surface shall be corrected so as to prevent formation of depressions where water will stand. **TOPSOIL SHALL NOT BE PLACED** when the subgrade is frozen, excessively wet or in a condition detrimental to the proposed planting and proper grading.

(g) After the topsoil has been spread and graded, the surface shall be cleared of stones, stumps, or other objects that might hinder planting or maintenance operations. Paved areas over which hauling operations are conducted shall be kept clean.

(h) Where any portion of the surface becomes eroded or otherwise damaged, the affected areas shall be repaired to the aforementioned condition.

(i) Fertilizer shall be applied to the loosened layers (two (2) inches deep) at the rate of one and one-half (1-1/2) pounds per 100 square feet for all areas, regardless

of whether topsoil has been added. Distribution shall be uniform.

(j) Prior to placement of sod, areas shall be sprinkled with water sufficiently to make them moist, but not muddy. As determined by the Engineer, this initial application of water may be omitted if the area is sufficiently moist from rainfall.

(k) Immediately following the placing and tamping of sod, the covered area shall be wetted thoroughly. Subsequent applications of water shall be directed by the Engineer.

(l) The sodding operations shall produce areas of solid, living grass.

14.05 Intermittent Cleanup

Immediately following the sodding operations, all gutters, sidewalks, driveways, street pavement, yards, or other areas shall be cleaned of all debris, excess sod, topsoil, or other objectionable matter. All such cleanup operations shall be completed before sodded areas are measured for payment as described below.

14.06 Method of Measurement

(a) Areas covered by living sod will be measured by the square yard to the nearest whole square yard.

(b) Fertilizer will not be measured for separate pay. Its furnishing and application shall be considered subsidiary work pertaining to solid sodding.

(c) Topsoil will be measured by the cubic yard at the points of delivery to the site, truck measure.

(d) Water for sod will not be measured separately, but will be subsidiary to the item of solid sodding.

14.07 Basis of Payment.

Solid sodding and topsoil acceptably completed and measured as provided above, will be paid for at the contract unit price per square yard bid for "SOLID SODDING" and at the contract unit price per cubic yard bid for "TOPSOIL," which prices shall be full compensation for furnishing all materials; for cleanup work; and for all equipment, tools, labor, and incidentals necessary to complete the work.

Payment will be made under:

14.07a Solid Sodding - per square yard

14.07b Topsoil - per cubic yard

SECTION 19 - CLEANUP

19.01 Description

This section covers the cleanup of the project and includes, but is not necessarily limited to, the following items:

(a) Site Preparation

Removal of trees, fences, or any obstructions which would interfere with the normal course of construction of this Contract.

(b) Pipe Construction

Cleaning surface debris, backfill of storm sewer boxes, sanitary sewer manholes, or any other structures related to the construction of storm, sanitary and water lines, removal of excess material caused by the construction of storm, sanitary, and water lines.

(c) Concrete Construction

Removal and cleaning of excessive amounts of prime, splashed concrete, dirt, and other debris from sidewalks, curbs, and pavements on the project.

(d) Final Cleanup

Removal and satisfactory disposal of silt and sediment in storm drainage and inlets, in gutters, in streets and sidewalks, and in drainage ditches. Repair of damage to previously completed work by natural or other forces. Correction of deficiencies found during the final inspection.

19.02 Time for Completion

The nature of the work involved in this item requires that this work be performed during the course of construction or as directed by the Engineer. The Contractor shall, periodically or as directed during the progress of the work, put the entire site of work in a neat and clean condition.

19.03 Method of Measurement

Payment for "CLEANUP" will be made at the discretion of the Engineer in proportion to the amount of work completed to date. This item shall represent final cleanup of the Project.

19.04 Basis of Payment

Cleanup acceptably completed and measured as provided above will be paid for at the contract lump sum price for "CLEANUP," predetermined in this Contract and shown in the Unit Price Schedule, which price shall be full compensation for furnishing all materials; for all equipment, tools, labor and incidentals necessary to complete the work.

Payment will be made under:

19.04 Cleanup - per lump sum price

SECTION 24 - TEMPORARY EROSION CONTROL

24.01 Description

This section covers the application of Temporary Erosion Control items at locations shown on the plans or as directed.

24.02 Standard Specifications

Items and materials for this section shall be in accordance with SECTION 621 - TEMPORARY EROSION CONTROL ITEMS AND DEVICES of the Standard Specifications.

24.03 Measurement and Payment

Temporary Erosion Control items will be measured and paid for in accordance with SECTION 621 - TEMPORARY EROSION CONTROL ITEMS AND DEVICES.

Payment will be made under:

- 24.03a Temporary Seeding - per acre
- 24.03b Baled Straw Filter Barriers - per bale
- 24.03c Filter Fabric Barriers - per linear foot
- 24.03d Sand Bag Ditch Checks - per bag
- 24.03e Diversion Ditch - per linear foot
- 24.03f Brush Barriers - per linear foot
- 24.03g Sediment Basins - per each

SECTION 34 - REMOVE AND REPLACE FENCES

34.01 Description

This item shall consist of the removal of existing fences and the replacement of new fences as directed by the Engineer or as indicated on the Plans.

This item shall consist of the removal of existing fences and replacement with new fence on top of retaining wall.

All work shall be in accordance with details shown on the Plans and with these Specifications.

34.02 Materials

The fences replaced shall be with the same kind of material as the existing fence, or as approved by the property owner and the Engineer.

All wood fences shall be painted or stained to match existing fence.

34.03 Execution

Construction methods shall be as shown on the Plans and as approved by the Engineer. All posts installed in the ground shall be placed in concrete.

Pipe sleeves shall be installed in retaining walls at the location of all posts and the post, when set in place, shall be grouted in the sleeves.

Gates, either wood, chain link, or other type, shall be relocated at the locations where existing gates occur.

34.04 Method of Measurement

Measurement for replacement of fence, including gates and pipe sleeves, will be measured by the linear foot, measurements being taken along the midheight of the fence from center of end post to end post. Separate measurement will not be made for gates or any of the devices used to hang and close gates. Measurement for fence will include the space occupied by gates.

34.05 Basis of Payment

Payment will be made for work covered under this paragraph at the contract unit price bid per linear foot for "REPLACEMENT OF FENCE," which price shall be full compensation for the furnishing for all materials, including fence, posts, braces, gates

and other fence hardware; and for all labor, equipment, tools, and incidentals necessary to complete the work.

Payment will be made under:

34.05a Replacement of Fence - per linear foot

SP-1 - SPECIFICATIONS, ARKANSAS STATE HIGHWAY COMMISSION

General

The standard specifications of the Arkansas State Highway and Transportation are bound in a book titled Standard Specifications for Highway Construction. These specifications are referred to herein as "Standard Specifications." The latest edition shall apply.

A copy of these "Standard Specifications" may be obtained from the Arkansas State Highway and Transportation Department, Little Rock, Arkansas, at their customary charge.

Incorporation and Modification

Certain parts of the Standard Specifications are appropriate for inclusion in these Technical Specifications. Such parts are incorporated herein by reference to the proper section or article number. The individual specification numbers noted herein may be different from those in the latest edition of the "Standard Specifications." The most current specification number shall apply. Each such referenced part shall be considered to be a part of these Contract Documents as though copied herein in full.

Certain referenced parts of the Standard Specifications are modified in the Specifications that follow. In case of conflict between the Standard Specifications and the Specifications that follow, the Specifications that follow shall govern.

Individual material test numbers change from time to time. Use the latest applicable test.

SPECIAL PROVISIONS – SECTION 2

PLACEMENT OF SHOT ROCK BARRIERS

SP-2.01 Description

This item shall consist of the placement of shot rock barriers at the location shown on plans or as directed by the Engineer. All materials and work shall be in accordance with the details shown on the plans and with these specifications. Any type of rock that meets the standard specifications will be accepted (stone, boulders, blasted lime stone, etc.).

SP-2.02 Standard Specifications

Shot rock barriers should have minimum dimensions of 4'0" x 3'0" x 2'0".

SP-2.03 Construction Requirements

Shot rock barriers should be placed 4' to 4.5' apart. The rock should be placed so that the longest dimension of the rock is parallel to the parking area boundary.

SP-2.04 Method of Measurement

Shot rock barriers will be measured per each.

SP-2.05 Basis of Payment

Work acceptably completed and measured as provided above, will be paid for at the contract unit price bid per each for "PLACEMENT OF SHOT ROCK BARRIERS" which prices shall be full compensation for furnishing and placing all materials, and for all equipment, tools, labor, and incidentals necessary to complete the work.

Payment will be made under:

SP-2.05a Shot Rock Barriers – per each