

Shaping Our Community



ENGINEERING

R-560-2014

Contract #317-2014

**Contract
Documents
and
Specifications**

Project Name: 2014 Construction Unit Price Contract

LFUCG Bid No.: 107-2014

**Prepared by: Division of Engineering, Department of Public Works
Lexington-Fayette Urban County Government
101 E. Vine Street, Lexington, KY 40507**

**Todd Johnson Contracting
Executed Contract Document 1 of 3**

TABLE OF CONTENTS

CONTRACT DOCUMENTS

2014 Construction Unit Price Contract

PART I	ADVERTISEMENT FOR BIDS
PART II	INFORMATION FOR BIDDERS
PART III	FORM OF PROPOSAL
PART IV	GENERAL CONDITIONS
PART V	SPECIAL CONDITIONS
PART VI	CONTRACT AGREEMENT
PART VII	PERFORMANCE AND PAYMENT BONDS
PART VIII	TECHNICAL SPECIFICATIONS
PART IX	ADDENDUM No.1
APPENDIX A	LFUCG STANDARD DRAWINGS
APPENDIX B	KDOH STANDARD DRAWINGS
APPENDIX C	TYPICAL DRAWINGS
POST-BID INSERT	BID TABULATION

PART 1
ADVERTISEMENT FOR BIDS

INDEX

1. INVITATION
2. DESCRIPTION OF WORK
3. OBTAINING PLANS, SPECIFICATIONS, AND BID DOCUMENTS
4. METHOD OF RECEIVING BIDS
5. METHOD OF AWARD
6. BID WITHDRAWAL
7. SUBMISSION OF BIDS
8. RIGHT TO REJECT
9. NOTIFICATION TO THE LFUCG FOR AFFIRMATIVE ACTION
10. NOTICE CONCERNING DBE GOAL

ADVERTISEMENT FOR BIDS

1. INVITATION

Sealed proposals for the following work will be received by the Lexington-Fayette Urban County Government (LFUCG) until **2:00 p.m., local time, 08/25/2014**, for furnishing all labor and/or materials and performing all work as set forth by this advertisement, conditions (general and special), specifications, and/or the drawings prepared by and for Lexington-Fayette Urban County Government, Division of Engineering. Immediately following the scheduled closing time for reception of bids, all proposals which have been submitted in accordance with the above will be publicly opened and read aloud.

Bidders attention is directed to Part II, *Information for Bidders*, Section 7: Addenda and Interpretations. **The deadline for questions stated therein is firm.**

2. DESCRIPTION OF WORK

Consisting of the construction and/or furnishing of items as listed in the Bid Schedule beginning on page P-7, Part III, Form of Proposal, of this document, for various small projects such as roadway construction, repair, sidewalks, storm water or sanitary sewer improvements in Lexington-Fayette County, Kentucky at work sites to be determined plus incidentals necessary to complete the work.

3. OBTAINING PLANS, SPECIFICATIONS, AND BID DOCUMENTS

Specifications and Bid Documents may be examined at the following places:

Lexington-Fayette Urban County Government
Division of Central Purchasing
200 East Main Street, Third Floor, Room 338
Lexington, Kentucky 40507
(859) 258-3320

Builders Exchange of Louisville, Inc.
2300 Meadow Drive
Louisville, Kentucky 40218
(502) 459-9800

LFUCG
Division of Engineering
101 East Vine Street, 4th Floor
Lexington, Kentucky 40507
(859) 258-3410

Reed Construction Data
30 Technology Parkway South, Suite 100
Norcross, GA 30092
(800) 424-3996

AGC/McGraw-Hill Construction
950 Contract Street, Suite 100
Lexington, Kentucky 40505
(859) 425-6630

ISQFT
4500 Lake Forest Dr., Suite 502
Cincinnati, OH 45242

Specifications and Contract Documents shall be obtained from the official bid

document distributor, LYNN IMAGING, 328 Old Vine Street, Lexington, KY 40507, (859) 255-1021 or (www.lynnimaging.com) and click on plan room for a non-refundable price of reproduction for each full set of documents.

4. METHOD OF RECEIVING BIDS

Bids will be received from Prime Contracting firms on a **Line Item Unit Price Basis**. The Bidder is not required to bid on every item listed on Bid Schedule. Bids shall be submitted in the manner and subject to the conditions as set forth and described in the Information for Bidders, Form of Proposal and Special Conditions.

Mailed bids/proposals should be sent to the Director, Division of Central Purchasing, 200 East Main Street, Lexington, KY 40507.

5. METHOD OF AWARD

All qualified responsible bidders will be included in the overall award. Individual projects utilizing the prices of this contract will generally be offered to the lowest bidder able to provide all work elements of the project. It is anticipated that a Project Contract will be awarded to the lowest, qualified responsible bidder for the total Project area, according to the alternative(s) selected by the OWNER.

6. BID WITHDRAWAL

No bidder may withdraw his bid for a period of sixty (60) calendar days after the closing date for receipt of bids. Errors and omissions will not be cause for withdrawal of bid without forfeit of bid bond. Bids may be withdrawn in person prior to the closing date of receipt of bids.

7. SUBMISSION OF BIDS

CONTRACTORS shall submit their bids to the Lexington-Fayette Urban County Government, Division of Purchasing, Third Floor, 200 East Main Street, Lexington, Kentucky 40507. Bids shall be submitted in a sealed envelope not later than **2:00 p.m. local time, 08/25/2014**. Sealed proposals shall be clearly marked on the outside of the container as follows: Company Name and Address, Bid Invitation Number **107-2014**, and **2014 Construction Unit Price Contract** to be opened at 2:00 p.m. local time 08/11/2014. Bids are to remain sealed until official Bid closure time. Bids received after the scheduled closing time for receipt of bids will not be considered and will be returned unopened.

8. RIGHT TO REJECT

The Lexington-Fayette Urban County Government reserves the right to reject any and all bids and to waive all informalities and/or technicalities where the best interest of the Lexington-Fayette Urban County Government may be served.

9. NOTIFICATION TO THE LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT FOR AFFIRMATIVE ACTION PLAN AND CURRENT WORKFORCE

The successful bidder must submit, the following to the Lexington-Fayette Urban County Government:

1. Affirmative Action Plan for his/her firm.
2. Current Workforce Analysis Form

Failure to submit this as required herein may result in disqualification of the Bidder from the award of the contract.

All submissions should be directed to:

Lexington-Fayette Urban County Government
Division of Purchasing
200 East Main Street, 3rd Floor, Room 338
Lexington, Kentucky 40507

10. NOTICE CONCERNING DBE GOAL

Notice of requirement for Affirmative Action to ensure Equal Employment Opportunities and Disadvantaged Business Enterprises (DBE) contract participation.

The Lexington-Fayette Urban County Government has set a goal that not less than ten-percent (10%) of the total value of this contract be subcontracted to Disadvantaged Business Enterprises. The goal for the utilization of Disadvantaged Business Enterprises as subcontractors is a recommended goal. Contractors who fail to meet such goals will be expected to provide written explanations to the EEO Office and the Director of the Division of Purchasing of efforts they have made to accomplish the recommended goals, and the extent to which they are successful in accomplishing the recommended goals will be a consideration in the procurement process.

For assistance in locating Disadvantaged Business Enterprises Subcontractors contact:

Marilyn Clark, Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street, 3rd Floor, Room 338
Lexington, Kentucky 40507
(859) 258-3323

END OF SECTION

PART II
INFORMATION FOR BIDDERS

INDEX

1. RECEIPT AND OPENING OF BIDS
2. PREPARATION OF BID
3. SUBCONTRACTS
4. QUALIFICATION OF BIDDER
5. TIME OF COMPLETION AND LIQUIDATED DAMAGES
6. EXAMINATION OF CONTRACT DOCUMENTS
7. ADDENDA AND INTERPRETATIONS
8. SECURITY FOR FAITHFUL PERFORMANCE
9. POWER OF ATTORNEY
10. TAXES AND WORKMEN'S COMPENSATION
11. LAWS AND REGULATIONS
12. EROSION AND SEDIMENT CONTROL AND PERMITS
13. PREVAILING WAGE LAW AND MINIMUM HOURLY RATES
14. AFFIRMATIVE ACTION PLAN
15. CONTRACT TIME
16. SUBSTITUTION OR "OR-EQUAL" ITEMS
17. SIGNING OF AGREEMENT
18. ASSISTANCE TO BE OFFERED TO DBE CONTRACTORS
19. MBE/WBE PARTICIPATION GOALS
20. REQUIRED SUBMITTALS

PART II
INFORMATION FOR BIDDERS

1. RECEIPT AND OPENING OF BIDS

The Lexington-Fayette Urban County Government (herein called the OWNER) invites bids from firms on the project described in the Advertisement for Bids. The OWNER will receive bids at the Division of Purchasing, at the time and in the manner set forth in the Advertisement for Bids, and the Bids will then be publicly opened and read aloud. The OWNER may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities or reject any and all bids. Any bid may be withdrawn prior to the scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 60 days after the actual time and date of the bid opening, but OWNER may, in its sole discretion, release any bid and return the Bid Security prior to that date.

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

2. PREPARATION OF BID

Each bid must be submitted on the prescribed Form of Proposal. All blank spaces for the bid prices must be filled in, either in ink or typewritten with either an amount or the phrase "No bid". Bids must be addressed to the Director of Central Purchasing, Lexington-Fayette Urban County Government, Third Floor, 200 East Main Street, Lexington, Kentucky 40507. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified above.

3. SUBCONTRACTS

The bidder is specifically advised that any person, firm, or other party to whom it is proposed to award a subcontract under this Contract must be acceptable to the OWNER. All proposed subcontractors must be identified on the Form of Proposal. Prior to the award of Contract, the OWNER or the OWNER'S representative will advise the CONTRACTOR of the acceptance and approval thereof or of any action necessary to be taken. Should any Subcontractor be rejected by the OWNER, the CONTRACTOR shall present a new name and/or firm to the OWNER at no change in the Contract Price. Alternately, the bidder may choose to delete his bid for the item or items previously proposed to be done by the subcontractor.

4. QUALIFICATION OF BIDDER

The OWNER may make such investigations as the OWNER deems necessary to determine the ability of the bidder to perform the Work, and the bidder shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the OWNER that such bidder is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein. Conditional bids will not be accepted.

In evaluating Bids, OWNER shall consider the qualifications of the BIDDERS, whether or not the Bids comply with the prescribed requirements, and alternatives and unit prices, as requested. OWNER may consider maintenance requirements, performance data, and disruption or damage to private property. It is OWNER'S intent to accept alternatives, if requested by the bid forms, in the order in which they are listed in the Bid Form but OWNER may accept or decline them in any order or combination. The contract, if awarded, will be awarded to the lowest, qualified, responsible BIDDER based upon OWNER'S evaluation which indicates that the award will be in the best interest of OWNER and the general public.

In the event there is any question as to the bidder's qualifications and ability to complete the work, a final determination will be made in accordance with a fair evaluation by the Urban County Government of the above listed elements.

- A. If the OWNER requires filling out a detailed financial statement, the bidder may provide its current certified financial statement(s) for the required time interval.
- B. Corporate firms are required to be registered and in good standing with the requirements and provisions of the Office of the Secretary of State, Commonwealth of Kentucky.
- C. Good standing with Public Works Act - any CONTRACTOR and/or subcontractors in violation of any wage or work act provisions (KRS 337.510 to KRS 337.550) are prohibited by Statutory Act (KRS 337.990) from bidding on or working on any and all public works contracts, either in their name or in the name of any other company, firm or other entity in which he might be interested. No bid from a prime contractor in violation of the Act can be considered, nor will any subcontractor in violation of the Act be approved and/or accepted. The responsibility for the qualifications of the subcontractor is solely that of the prime contractor.
- D. Optional OWNER Requirements - Documents Required of CONTRACTOR
- (1) A sworn statement signed by the President or owner of the Company regarding all current work in progress anywhere; (2) A document showing

the percent of completion of each project and the total worth of each project; and (3) Documentation showing the percentage of the DBE employment levels on each project of the Bidder's current work force, and DBE participation levels for Subcontractors.

- E. Optional OWNER Requirements - The OWNER, at its discretion, may require the BIDDER/CONTRACTOR to provide: (1) A current detailed financial statement for a period including up to 3 prior years. (2) Financial security or insurance in amounts and kinds acceptable to the OWNER to meet the financial responsibility requirements for the CONTRACTOR to indemnify the OWNER. (3) Additional information and/or DBE work force data, as well as DBE participation data.

Each bidder agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

5. TIME OF COMPLETION AND LIQUIDATED DAMAGES

Bidder must agree to commence work on or before a date to be specified in a written "Notice to Proceed" from the OWNER and to fully complete the Project within the time as specified in the Contract. Bidder must agree also to pay \$250 per day as liquidated damages, or the sum as specified by the Section 108, KDOH Standard Specifications, current edition, for each consecutive calendar day thereafter as hereinafter provided in the General Conditions.

6. EXAMINATION OF CONTRACT DOCUMENTS

It is the responsibility of each Bidder before submitting a Bid, to (a) examine the Contract Documents thoroughly, (b) consider Federal, State and Local laws and regulations that may affect cost, progress, performance or furnishing of the work, (c) study and carefully correlate Bidder's observations with the Contract Documents, and (d) notify Engineer of all conflicts, errors or discrepancies in the Contract Documents.

The submission of a Bid will constitute an incontrovertible representation by the Bidder that Bidder has complied with every requirement of this paragraph; that without exception the Bid is premised upon furnishing and performing the Work required by the Contract Documents and such means, methods, techniques, sequences or procedures of construction as may be indicated in or required by the Contract Documents; and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

7. ADDENDA AND INTERPRETATIONS

No interpretation of the meaning of the Contract Documents will be made to any bidder orally. Every request for such interpretation or questions concerning this bid should be submitted in writing either on the Economic Engine website or by email to Theresa Maynard, Buyer Senior at theresam@lexingtonky.gov, who in turn will have an addendum issued if needed under signature of the Engineer for the Lexington-Fayette Urban County Government, and to be given consideration must be received must be received by the deadline for questions of August 14, 2014 at 2:00 pm local time. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be emailed from the Economic Engine website and distributed by Lynn Imaging to all prospective bidders who have previously downloaded the Notification of Construction Project from Economic Engine or received the specification book from Lynn Imaging. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.

8. SECURITY FOR FAITHFUL PERFORMANCE

- A. A Performance Bond will be required before beginning work for the total cost of the work if the total cost of the work is greater than \$50,000. Any additional work will also require additional Performance Bonds in the amount of 100% of work issued at that time. Prior to issuance of a specific Project Purchase Order, the Contractor shall furnish a surety bond or bonds as security for the faithful performance of this Contract and for payment of all persons performing labor on the Project under this Contract and furnishing materials in connection with this Contract, as specified in the General Conditions. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the OWNER and authorized to do business in the Commonwealth of Kentucky.

The CONTRACTOR is allowed to recapture the cost of these bonds by including in the Bid Schedule a percentage of the Total Project Cost.

- B. All bonds required by this Contract and laws of this State shall be placed with agents licensed in the State of Kentucky. When the premium is paid for such coverages, the full commission shall be paid to such local agent who shall not divide such commission with any person other than a duly licensed resident local agent.

C. **Contractor shall use standard Performance and Payment Bond forms such as documents provided with this contract book or AIA form A312-1984 (or later).**

D. **CONTRACTOR shall also be required to provide current Insurance Certificates, simultaneously with Performance Bonds, which meet the requirement of these specifications before beginning work that is issued to the CONTRACTOR. This applies to all projects as they occur.**

9. POWER OF ATTORNEY

Attorney-in-fact who signs bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

10. TAXES AND WORKMEN'S COMPENSATION

The CONTRACTOR and subcontractor will be required to accept liability for payment of all payroll taxes, sales and use tax, and all other taxes or deductions required by local, state or federal law. Each shall carry Workmen's Compensation Insurance to the full amounts as required by Statutes and shall include the cost of all foregoing items in the proposal. The CONTRACTOR will not otherwise be reimbursed or compensated for such tax payments. The CONTRACTOR is urged to ascertain at his own risk his actual tax liability in connection with the execution or performance of his Contract.

11. LAWS AND REGULATIONS

The bidder's attention is directed to the fact that all applicable state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Contract throughout, and they will be deemed to be included in the contract, the same as though herein written out in full.

12. EROSION AND SEDIMENT CONTROL AND PERMITS

The CONTRACTOR and Subcontractors performing work on projects on behalf of the OWNER shall also comply with all applicable federal, state, and local environmental regulations and all requirements and conditions set forth in "special" permits including but not limited to Corp of Engineers 404 permits, 401 Water Quality Certifications, Stream Crossing and Floodplain Encroachment Permits as described in Part 4 General Conditions Paragraph 5.17.

13. PREVAILING WAGE LAW AND MINIMUM HOURLY RATES

Federal or state wage rates and regulations, if required for this Project, will be negotiated at the time of awarding the project.

14. AFFIRMATIVE ACTION PLAN

The successful Bidder must submit with their bid, the following items to the Urban County Government:

1. Affirmative Action Plan for his/her firm – see Part III
2. Current Work Force Analysis Form – see Part III
3. Good Faith Effort Documentation – see Part III
4. List of Disadvantaged Business Enterprise Subcontractors and the Dollar Value of each Subcontract – see Part III

Bidders who frequently bid on Urban County Government projects may file a copy of their firm's Affirmative Action Plan with the Urban County Government. If an Affirmative Action Plan is filed with the Urban-County Government, additional submissions will not be required unless said plan is revised.

A Work Force Analysis Form shall be submitted for each Project. Failure to submit these items as required herein may result in disqualification of the Bidder from award of the Contract.

All submissions should be directed to:

Director, Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street, Third Floor
Lexington, KY 40507

15. CONTRACT TIME

Unit Price Contract (UPC) is anticipated to be in effect for one year with the option of renewing it for another year. For individual projects undertaken under this UPC, the time to completion for each project will be agreed upon between the OWNER and the CONTRACTOR and reflected in the Notice to Proceed.

16. SUBSTITUTE OR "OR-EQUAL" ITEMS

The Contract, if awarded, will be on the basis of materials and equipment described in the Drawings or specified in the Specifications without consideration of possible substitute or "or-equal" items. Whenever it is indicated in the Drawings or specified in the Specifications that a substitute or "or-equal" item of material or equipment may be furnished or used by the CONTRACTOR if acceptable to the ENGINEER and OWNER, application for such acceptance will not be considered by the ENGINEER and OWNER until after the effective date of the Agreement. The procedure for submission of any such application by the CONTRACTOR and

consideration by the ENGINEER and OWNER is set forth in the General Conditions.

17. SIGNING OF AGREEMENT

When OWNER gives a Notice of Award to the successful Bidder, it will be accompanied by the required number of unsigned counterparts of the Agreement with all other written Contract Documents attached. Within ten days thereafter, CONTRACTOR shall sign and deliver the required number of counterparts of the Agreement and attached documents to OWNER. Within 10 days of an award for a Project CONTRACTOR will submit required Bonds, Certificate of Insurance, and Power of Attorney. The OWNER will deliver one fully signed counterpart to CONTRACTOR at such time as it has been signed by the Mayor.

18. ASSISTANCE TO BE OFFERED TO DISADVANTAGED BUSINESS ENTERPRISE (DBE) CONTRACTORS

I. Outreach

The Lexington-Fayette Urban County Government (LFUCG) maintains a mailing list of DBE contractors and organizations. When a LFUCG construction project is advertised for bidding, notices are sent to the entire mailing list. The notices describe the project, indicate the deadline for submitting bids, and review the bonding assistance which is available.

If you wish to be added to the LFUCG DBE contractor mailing list, please contact:

Marilyn Clark
Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street, Room 338
Lexington, Kentucky 40507

II. Subcontractors

The LFUCG will, upon request, assist prime contractors in the procurement of eligible DBE subcontractors in an effort to achieve the 10% minimum DBE goal.

For a list of eligible DBE subcontractors please contact:

Marilyn Clark
Division of Central Purchasing

Lexington-Fayette Urban County Government
200 East Main Street, Room 338
Lexington, Kentucky 40507

III. Questions

If you have questions or wish to have additional information, please contact:

Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street, 3rd Floor
Lexington, Kentucky 40507
(859) 258-3320

19. MBE/WBE PARTICIPATION GOALS

A. GENERAL

- 1) The LFUCG request all potential contractors to make a concerted effort to include Minority-Owned (MBE) and Woman-Owned (WBE) Business Enterprises as subcontractors or suppliers in their bids.
- 2) Toward that end, the LFUCG has established 10% of total procurement costs as a Goal for participation of Minority-Owned and Woman-Owned Businesses on this contract.
- 3) **It is therefore a request of each Bidder to include in its bid, the same goal (10%) or for MBE/WBE participation and other requirements as outlined in this section.**

B. PROCEDURES

- 1) The successful bidder will be required to report to the LFUCG, the dollar amounts of all purchase orders submitted to Minority-Owned or Woman-Owned subcontractors and suppliers for work done or materials purchased for this contract. (See Subcontractor Monthly Payment Report)
- 2) Replacement of a Minority-Owned or Woman-Owned subcontractor or supplier listed in the original submittal must be requested in writing and must be accompanied by documentation of Good Faith Efforts to replace the subcontractor / supplier with another MBE/WBE Firm; this is subject to approval by the LFUCG. (See LFUCG MBE/WBE Substitution Form)
- 3) For assistance in identifying qualified, certified businesses to solicit for potential contracting opportunities, bidders may contact:

- a) The Lexington-Fayette Urban County Government, Division of Central Purchasing (859-258-3320)
- 4) The LFUCG will make every effort to notify interested MBE/WBE subcontractors and suppliers of each Bid Package, including information on the scope of work, the pre-bid meeting time and location, the bid date, and all other pertinent information regarding the project.

C. DEFINITIONS

- 1) A Minority-Owned Business Enterprise (MBE) is defined as a business which is certified as being at least 51% owned and operated by persons of African American, Hispanic, Asian, Pacific Islander, American Indian or Alaskan Native Heritage.
- 2) A Woman-Owned Business Enterprise (WBE) is defined as a business which is certified as being at least 51% owned and operated by one or more Non-Minority Females.

D. OBLIGATION OF BIDDER

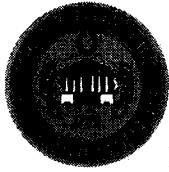
- 1) **The bidder shall make a Good Faith Effort to achieve the Participation Goal for MBE/WBE subcontractors/suppliers. The failure to meet the goal shall not necessarily be cause for disqualification of the bidder; however, bidders not meeting the goal are required to furnish with their bids written documentation of their Good Faith Efforts to do so.**
- 2) Award of Contract shall be conditioned upon satisfaction of the requirements set forth herein.
- 3) The Form of Proposal includes a section entitled "MBE/WBE Participation Form". The applicable information must be completed and submitted as outlined below.
- 4) **Failure to submit this information as requested will be cause for rejection of bid.**

E. DOCUMENTATION REQUIRED

- 1) Bidders reaching the Goal are required to submit only the "MBE/WBE Participation Form." The form must be fully completed including names and telephone number of participating MBE/WBE firm(s); type of work to be performed; estimated value of the contract and value expressed as a percentage of the total Lump Sum Bid Price. The form must be signed and dated, and is to be submitted with the bid.
- 2) Bidders not reaching the Goal must submit the "MBE/WBE Participation Form", the "MBE Quote Summary Form" and a written statement

documenting their Good Faith Effort to do so (If bid includes no MBE/WBE participation, bidder shall enter "None" on the subcontractor / supplier form). In addition, the bidder may submit the following as proof of Good Faith Efforts to meet the Participation Goal:

- a) Advertisement by the bidder of MBE/WBE Contracting opportunities associated with this bid in at least two (2) of the following:
 1. A periodical in general circulation throughout the region
 2. A Minority-Focused periodical in general circulation throughout the region
 3. A Trade periodical aimed at the MBE/WBE community in general circulation throughout the region
 4. Bidder shall include copies of dated advertisement with his submittal
- b) Evidence of written notice of contracting opportunities to at least five (5) MBE/WBE firms serving the construction industry at least seven (7) days prior to the bid opening date.
- c) Copies of quotations submitted by MBE/WBE firms which were not used due to uncompetitive pricing or other factors and/or copies of responses from firms that were contacted indicating that they would not be submitting a bid.
- d) Documentation of Bidder's utilization of the agencies identified to help locate potential MBE/WBE firms for inclusion on the contract including responses from agencies.
- e) Failure to submit any of the documentation requested in this section will be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement. "Record of MBE/WBE Solicitation" and other required documentation of Good Faith Efforts are to be submitted with the bid, if participation Goal is not met.



MINORITY BUSINESS ENTERPRISE PROGRAM

Marilyn Clark
Minority Business Enterprise Liaison
Division of Central Purchasing
Lexington-Fayette Urban County Government
200 East Main Street
Lexington, KY 40507
mclark@lexingtonky.gov
859-258-3323

OUR MISSION: The mission of the Minority Business Enterprise Program is to facilitate the full participation of minority and women owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long term economic viability of Lexington-Fayette Urban County Government.

To that end the city council adopted and implemented resolution 167-91—Disadvantaged Business Enterprise (DBE) 10% Goal Plan in July of 1991. The resolution states in part (a full copy is available in Central Purchasing):

“A Resolution supporting adoption of the administrative plan for a ten percent (10%) Minimum goal for disadvantaged business enterprise participation in Lexington-Fayette Urban County Government construction and professional services contracts; Providing that as part of their bids on LFUCG construction contracts, general Contractors shall make a good faith effort to award at least ten percent (10%) of All subcontracts to disadvantaged business enterprises; providing that divisions of LFUCG shall make a good faith effort to award at least ten percent of their Professional services and other contracts to disadvantaged business enterprises...”

A Disadvantaged Business Enterprise is defined as a business at least 51% owned, operated and managed by a U.S. Citizen of the following groups:

- African-American
- Hispanic-American
- Asian/Pacific Islander
- Native American/Native Alaskan
- Non-Minority Female

We are very happy that you have decided to bid for a contract, request for proposal, submitted a quote or are interested in learning more about how to do business with Lexington-Fayette Urban County Government. We have compiled the list below to help you locate certified minority vendors.

LFUCG—Economic Engine Listings

Marilyn Clark
mclark@lexingtonky.gov
859-258-3323

Commerce Lexington—

Tyrone Tyra, Minority Business Development
ttyra@commercelexington.com
859-226-1625

Tri-State Minority Supplier Diversity Council

Sonya Brown
sbrown@tsmsdc.com
502-625-0137

Small Business Development Council

Dee Dee Harbut /UK SBDC
ddharbut@uky.edu

Shawn Rogers, UK SBDC
Shawn.rogers@uky.edu

Shiree Mack
smack@uky.edu

Community Ventures Corporation

James Coles
jcoles@cvcky.org
859-231-0054

Kentucky Department of Transportation

Shella Jarvis
Shella.Jarvis@ky.gov
502-564-3601

KPAP

Debbie McKnight
Debbie.McKnight@ky.gov
800-838-3266 or 502-564-4252

Bobbie Carlton
Bobbie.Carlton@ky.gov

Ohio River Valley Women's Business Council

Rea Waldon
rwaldon@gcul.org
513-487-6534

Kentucky Small Business Connect

Tom Back
800-626-2250 or 502-564-2064
<https://secure.kentucky.gov//sbc>

**National Minority Supplier Development Council, Inc.
(NMSDC)**

www.nmsdc.org

20. REQUIRED SUBMITTALS

The following must be submitted with your bid at **minimum** or your bid will be considered non-responsive and rejected:

- Part III-
 - Form of Proposal
 - Legal Status of Bidder
 - Bidder's Affidavit (must be signed and notarized)
 - Bid Schedule (w/original signature)
 - Bid Schedule (electronic submittal in .xls format on a CD or flashdrive)
 - Statement of Bidder's Qualifications
 - List of proposed subcontractors (excluding percentages)
 - LFUCG MBE/WBE Participation Form (filled out as completely as possible)
 - MBE/WBE Quote Summary Form (filled out as completely as possible)
 - LFUCG Statement of Good Faith Efforts
 - Authentication of Bid and Statement of Non-Collusion/Non-Conflict
 - Statement of Experience
 - EEO Agreement
 - EEO Affirmative Action Policy
 - Workforce Analysis Form
 - Evidence of Insurability Form or Certificate of Insurance
 - Debarred Firms Form
 - Debarment Certification
 - Printed Version of Excel Spreadsheet with Unit Prices

Note: Applicable to Unit Price Contract (UPC) bidding, the following forms, (some of which will be partially completed and submitted with the original bid), will be required in full when a specific project is Awarded:

- Part III –
 - List of Proposed Subcontractors, (including percentages)
 - LFUCG MBE/WBE Participation Form
 - LFUCG MBE/WBE Substitution Form (if MBE/WBE is not listed on the original Participation Form)
 - MBE/WBE Quote Summary Form
 - LFUCG MBE/WBE Subcontractor Monthly Payment Report
 - LFUCG Statement of Good Faith Efforts

PART III
FORM OF PROPOSAL

INDEX

1. FORM OF PROPOSAL
2. LEGAL STATUS OF BIDDER
3. BIDDERS AFFIDAVIT
4. BID SCHEDULE – SCHEDULE OF VALUES
5. STATEMENT OF BIDDER'S QUALIFICATIONS
6. LIST OF PROPOSED SUBCONTRACTORS
7. LFUCG MBE/WBE PARTICIPATION FORM
8. LFUCG MBE/WBE SUBSTITUTION FORM (only if awarded bid)
9. MBE QUOTE SUMMARY FORM
10. LFUCG SUBCONTRACTOR MONTHLY PAYMENT REPORT (only if awarded bid)
11. LFUCG STATEMENT OF GOOD FAITH EFFORTS
12. AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST
13. STATEMENT OF EXPERIENCE
14. EQUAL OPPORTUNITY AGREEMENT
15. EQUAL EMPLOYMENT OPPORTUNITY AFFIRMATIVE ACTION POLICY
16. WORKFORCE ANALYSIS FORM
17. EVIDENCE OF INSURABILITY
18. DEBARRED FIRMS
19. DEBARRED CERTIFICATION

PART III

Invitation to Bid No. 107-2014

2014 Construction Unit Price Contract

1. FORM OF PROPOSAL

Place: Lexington, Kentucky

Date: 8-25-14

The following Form of Proposal shall be followed exactly in submitting a proposal for this Work.

This Proposal Submitted by

Todd Johnson Contracting Inc
497 Dillekey St. Danville, KY 40422
(Name and Address of Bidding Contractor)

(Hereinafter called "Bidder"), organized and existing under the laws of the State of Kentucky, doing business as a corporation
"a corporation," "a partnership", or an "individual" as applicable.

To: Lexington-Fayette Urban County Government
(Hereinafter called "OWNER")
Office of the Director of Purchasing
200 East Main Street, 3rd Floor
Lexington, KY 40507

Gentlemen:

The Bidder, in compliance with your Invitation for Bids for the **2014 Construction Unit Price Contract** having examined the Specifications and Contract Documents, having intent to examine each site for proposed Work hereby proposes to furnish all labor, materials, and supplies, and to construct the Project(s) in accordance with the Contract Documents, within the time set forth therein, and at the lump sum and/or unit prices stated hereinafter. These prices are to cover all expenses incurred in performing the Work required under the Contract Documents, of which this proposal is a part.

BIDDER hereby agrees to commence work under agreed-to Purchase Order accepted under this Contract and to complete the Project(s) within the time provided by the Purchase Order..

The Bidder hereby acknowledges receipt of the following addenda:

Addendum No. ____ Date None

Addendum No. ____ Date _____

Addendum No. ____ Date _____

Addendum No. ____ Date _____

Addendum No. ____ Date _____

Addendum No. ____ Date _____

Addendum No. ____ Date _____

Addendum No. ____ Date _____

Insert above the number and the date of any Addendum issued and received. If none has been issued and received, the word "NONE" should be inserted.

2. **LEGAL STATUS OF BIDDER**

Bidder Todd Johnson Contracting Inc

Date 8-25-14

* 1. A corporation duly organized and doing business under the laws of the State of Kentucky, for whom Todd Johnson, bearing the official title of President, whose signature is affixed to this Bid/Proposal, is duly authorized to execute contracts.

* 2. A Partnership, all of the members of which, with addresses are: (Designate general partners as such)

~~_____~~
~~_____~~
~~_____~~
~~_____~~
~~_____~~

* 3. An individual, whose signature is affixed to this Bid/Proposal (please print name)

~~_____~~
~~_____~~

*(The Bidder shall fill out the appropriate form and strike out the other two.)

3. **BIDDER'S AFFIDAVIT**

Comes the Affiant, *Amide Johnson*, and after being first duly sworn, states under penalty of perjury as follows:

1. His/her name is *Amide Johnson* and he/she is the individual submitting the bid or is the authorized representative of *Todd Johnson Contracting Inc*, the entity submitting the bid (hereinafter referred to as "Bidder").
2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.
3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.
4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.
5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.
6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as the "Ethics Act."
7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

(Affiant)

STATE OF

Kentucky

COUNTY OF

Boyle

The foregoing instrument was subscribed, sworn to and acknowledged before me by

Linda Johnson on this the 25 day of August
2014.

My Commission expires:

12-1-17

Cita Harmon

NOTARY PUBLIC, STATE AT LARGE

4. BID SCHEDULE – SCHEDULE OF VALUES

The Bidder agrees to perform all the Work described in the Specifications and shown on future Plans for the following proposed unit prices, if applicable, which shall include the furnishing of all labor, materials, supplies, equipment and/or vehicle usage, services, all items of cost, overhead, taxes (federal, state, local), and profit for the Contractor and any Subcontractor involved, within the time set forth herein. If unit prices are applicable, Bidder must make the extensions and additions showing the total amount of bid.

In addition to completing the following schedule of values, Bidders shall enter their unit prices on the attached Excel spreadsheet (Available through the LFUCG Economic Engine Marketplace), titled *2014 Construction Unit Price Contract Bid Schedule.xls*, and submit it with their bid on a CD or flash drive. Any discrepancies between entries in the table below and the electronic spreadsheet will defer to the unit price as written in the schedule below.

The Bidder is not required to bid on every item listed in the bid schedule. In instances where the Bidder chooses not to bid on a specific item, the Bidder shall enter the phrase “no bid” in the unit price column for that respective item. However, Bidders are cautioned that failure to submit a unit bid price on an item will disqualify the Bidder from any project requiring that item, even if they have submitted unit bid prices for all other work items pertaining to that particular project.

IN ADDITION TO COMPLETING THE LINE ITEM UNIT PRICES BELOW, BIDDERS MUST COMPLETE THE EXCEL SPREADSHEET AVAILABE ON THE LFUCG ECONOMIC ENGINE MARKETPLACE WEBSITE AND RETURN IT WITH THEIR SUBMITTAL ON A CD OR FLASH DRIVE.

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
1.	Excavation for Fifteen Dollars And _____ Dollars Ø Cents _____ Cents per CY	\$ 15.00
2.	Embankment for Thirty Dollars And _____ Dollars Ø Cents _____ Cents per CY	\$ 30.00
3.	Rock Excavation (Mechanical) for One Hundred Fifty Dollars and _____ Dollars Ø Cents _____ Cents per CY	\$ 150.00

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
4.	Remove Portland Cement Concrete Pavement for <u>Eighty Dollars And</u> Dollars <u>Zero & cents</u> Cents per SY	\$ <u>80.00</u>
5.	Remove Curb and Gutter for <u>Sixty Dollars And</u> Dollars <u>Zero & cents</u> Cents per LF	\$ <u>60.00</u>
6.	Remove Sidewalk, Entrance Pavement for <u>Eighty Dollars And</u> Dollars <u>Zero & cents</u> Cents per SY	\$ <u>80.00</u>
7.	Remove Bituminous Concrete Pavement for <u>Eighty Dollars And</u> Dollars <u>Zero & cents</u> Cents per SY	\$ <u>80.00</u>
8.	Remove Pipes less than 24" - up to 8' deep for <u>One Hundred Ten Dollars And</u> Dollars <u>Zero & cents</u> Cents per LF	\$ <u>110.00</u>
9.	Remove Pipes 30" - 48" - up to 8' deep for <u>One Hundred Ten Dollars And</u> Dollars <u>Zero & cents</u> Cents per LF	\$ <u>110.00</u>
10.	Remove Fence for <u>Fifteen Dollars And</u> Dollars <u>Zero & cents</u> Cents per LF	\$ <u>15.00</u>
11.	Remove Headwalls and Inlet Structures for <u>One Thousand Dollars And</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>1,000.00</u>
12.	Remove Tree (5" to 12" Diameter) for _____ Dollars _____ Cents per EA	\$ <u>no bid</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
13.	Remove Tree (>12" to 23" Diameter) for _____ Dollars _____ Cents per EA	\$ <u>NO Bid</u>
14.	Remove Tree (>24" to 36" Diameter) for _____ Dollars _____ Cents per EA	\$ <u>NO Bid</u>
15.	Remove Tree (>36" Diameter and up) for _____ Dollars _____ Cents per EA	\$ <u>NO Bid</u>
16.	Dense Graded Aggregate Base for <u>Twenty Five Dollars And</u> _____ Dollars <u>Zero & Cents</u> _____ Cents per TN	\$ <u>25.00</u>
17.	No. 2 Stone for <u>Twenty Five Dollars And</u> _____ Dollars <u>Zero & Cents</u> _____ Cents per TN	\$ <u>25.00</u>
18.	No. 9 Stone for <u>Twenty Five Dollars And</u> _____ Dollars <u>Zero & Cents</u> _____ Cents per TN	\$ <u>25.00</u>
19.	No. 57 Stone for <u>Twenty Five Dollars And</u> _____ Dollars <u>Zero & Cents</u> _____ Cents per TN	\$ <u>25.00</u>
20.	Steel Reinforcement for Concrete for <u>Five Dollars And</u> _____ Dollars <u>Zero & Cents</u> _____ Cents per LB	\$ <u>5.00</u>
21.	Unfinished Concrete less than 10 cubic yards for <u>One Hundred Fifty Dollars</u> _____ Dollars <u>And Zero & Cents</u> _____ Cents per CY	\$ <u>150.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
22.	Unfinished Concrete more than 10 cubic yards for <u>One Hundred Fifty Dollars and</u> Dollars <u>zero & cents</u> Cents per CY	\$ <u>150.00</u>
23.	Formed Class A Concrete less than 10 cubic yards for <u>Eight Hundred Fifty Dollars and</u> Dollars <u>zero & cents</u> Cents per CY	\$ <u>850.00</u>
24.	Formed Class A Concrete more than 10 cubic yards for <u>Six Hundred Fifty Dollars and</u> Dollars <u>zero & cents</u> Cents per CY	\$ <u>650.00</u>
25.	4 1/2" Concrete Sidewalk for _____ Dollars _____ Cents per SY	\$ <u>NO Bid</u>
26.	6" Concrete Sidewalk for _____ Dollars _____ Cents per SY	\$ <u>NO Bid</u>
27.	6" Concrete Entrance Pavement for _____ Dollars _____ Cents per SY	\$ <u>NO Bid</u>
28.	Sidewalk Ramp for _____ Dollars _____ Cents per SY	\$ <u>NO Bid</u>
29.	Header Curb for _____ Dollars _____ Cents per LF	\$ <u>NO Bid</u>
30.	Curb and Gutter, Type 1 for _____ Dollars _____ Cents per LF	\$ <u>NO Bid</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
31.	Curb and Gutter, Type 4 for _____ Dollars _____ Cents per LF	\$ <u>NO Bid</u>
32.	Bituminous Pavement Milling & Texturing for _____ Dollars _____ Cents per TN	\$ <u>NO Bid</u>
33.	Bituminous Base for _____ Dollars _____ Cents per TN	\$ <u>NO Bid</u>
34.	Class I Bituminous Surface less than 50 tons for _____ Dollars _____ Cents per TN	\$ <u>NO Bid</u>
35.	Class I Bituminous Surface greater than 50 tons for _____ Dollars _____ Cents per TN	\$ <u>NO Bid</u>
36.	Bituminous Material for Tack for _____ Dollars _____ Cents per TN	\$ <u>NO Bid</u>
37.	LFUCG Type "A" Surface Inlet for <u>Two Thousand Eight Hundred Seventy Five</u> Dollars <u>and zero & cents</u> Cents per EA	\$ <u>2875.00</u>
38.	LFUCG Type "B" Surface Inlet for <u>Two Thousand Seven Hundred Dollars and</u> Dollars <u>zero & cents</u> Cents per EA	\$ <u>2700.00</u>
39.	LFUCG Curb Box Inlet Type "A" for <u>Three Thousand Six Hundred forty Eight</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>3648.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
40.	LFUCG Curb Box Inlet Type "B" for <u>Three Thousand Six Hundred Forty</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>3640.00</u>
41.	LFUCG Curb Box Inlet Type "C" for _____ Dollars _____ Cents per EA	NO \$ <u>Bid</u>
42.	LFUCG Curb Box Inlet Type "D" for <u>Two Thousand Two Hundred Seventy Three</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>2273.00</u>
43.	KDOH Curb Box Inlet Type "B" for <u>Three Thousand Ten Dollars and</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>3010.00</u>
44.	KDOH Drop Box Inlet Type "13" for <u>Three Thousand Two Hundred</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>3200.00</u>
45.	KDOH Drop Box Inlet Type "16" for <u>Two Thousand Three Hundred Twenty Four</u> Dollars <u>Seventy</u> Cents per EA	\$ <u>2324.70</u>
46.	Lexington Storm Sewer Manholes (4' Dia.) (0-8' No Rock) for <u>Two Thousand Six Hundred Ninety Nine</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>2699.00</u>
47.	Lexington Storm Sewer Manhole (5' Dia.) (0-8' No Rock) for <u>Three Thousand Two Hundred Two</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>3202.00</u>
48.	Lexington Storm Sewer Manhole (6' Dia.) (0-8' No Rock) for <u>Four Thousand Five Hundred Seventy Five</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>4575.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
49.	Pipe Tie-in into Manhole or Curb Box Inlet for <u>One Thousand Five Hundred Seventy Five</u> Dollars <u>Zero & cents</u> Cents per EA	\$ <u>1575.00</u>
50.	15" RCP Storm Sewer (0-8' No Rock) for <u>Eighty Five</u> Dollars <u>twelve</u> Cents per LF	\$ <u>85.12</u>
51.	18" RCP Storm Sewer (0-8' No Rock) for <u>Eighty Seven</u> Dollars <u>Sixteen</u> Cents per LF	\$ <u>87.16</u>
52.	24" RCP Storm Sewer (0-8' No Rock) for <u>Ninety Six</u> Dollars <u>Thirty Four</u> Cents per LF	\$ <u>96.34</u>
53.	30" RCP Storm Sewer (0-8' No Rock) for <u>One Hundred Ten</u> Dollars <u>fifty seven</u> Cents per LF	\$ <u>110.57</u>
54.	36" RCP Storm Sewer (0-8' No Rock) for <u>One Hundred Thirty Seven</u> Dollars <u>ninety one</u> Cents per LF	\$ <u>137.91</u>
55.	42" RCP Storm Sewer (0-8' No Rock) for <u>One Hundred Sixty nine</u> Dollars <u>forty five</u> Cents per LF	\$ <u>169.45</u>
56.	48" RCP Storm Sewer (0-8' No Rock) for <u>One Hundred Ninety Seven</u> Dollars <u>Ninety nine</u> Cents per LF	\$ <u>197.99</u>
57.	15" HDPE Storm Sewer (0-8' No Rock) for <u>Eight five</u> Dollars <u>zero</u> Cents per LF	\$ <u>85.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
58.	18" HDPE Storm Sewer (0-8' No Rock) for <u>Ninety One</u> Dollars <u>Zero</u> Cents per LF	\$ <u>91.00</u>
59.	24" HDPE Storm Sewer (0-8' No Rock) for <u>One Hundred four</u> Dollars <u>Zero</u> Cents per LF	\$ <u>104.00</u>
60.	30" HDPE Storm Sewer (0-8' No Rock) for <u>One Hundred Eighteen</u> Dollars <u>Zero</u> Cents per LF	\$ <u>118.00</u>
61.	36" HDPE Storm Sewer (0-8' No Rock) for <u>One Hundred Twenty Two</u> Dollars <u>Fifty Six</u> Cents per LF	\$ <u>122.56</u>
62.	15" PP Storm Sewer (0-8' No Rock) for <u>Eighty Five</u> Dollars <u>twelve</u> Cents per LF	\$ <u>85.12</u>
63.	18" PP Storm Sewer (0-8' No Rock) for <u>Eighty Seven</u> Dollars <u>Sixteen</u> Cents per LF	\$ <u>87.16</u>
64.	24" PP Storm Sewer (0-8' No Rock) for <u>Ninety Six</u> Dollars <u>thirty four</u> Cents per LF	\$ <u>96.34</u>
65.	30" PP Storm Sewer (0-8' No Rock) for <u>One Hundred One</u> Dollars <u>fifty seven</u> Cents per LF	\$ <u>101.57</u>
66.	36" PP Storm Sewer (0-8' No Rock) for <u>One Hundred Twenty Two</u> Dollars <u>Fifty Six</u> Cents per LF	\$ <u>122.56</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
67.	15" Elliptical RCP Storm Sewer (0-8' No Rock) for _____ Dollars _____ Cents per LF	\$ <u>RL/B</u>
68.	18" Elliptical RCP Storm Sewer (0-8' No Rock) for _____ Dollars _____ Cents per LF	\$ <u>No Bid</u>
69.	24" Elliptical RCP Storm Sewer (0-8' No Rock) for _____ Dollars _____ Cents per LF	\$ <u>No Bid</u>
70.	30" Elliptical RCP Storm Sewer (0-8' No Rock) for _____ Dollars _____ Cents per LF	\$ <u>No Bid</u>
71.	36" Elliptical RCP Storm Sewer (0-8' No Rock) for _____ Dollars _____ Cents per LF	\$ <u>No Bid</u>
72.	42" Elliptical RCP Storm Sewer (0-8' No Rock) for _____ Dollars _____ Cents per LF	\$ <u>No Bid</u>
73.	48" Elliptical RCP Storm Sewer (0-8' No Rock) for _____ Dollars _____ Cents per LF	\$ <u>No Bid</u>
74.	Internal Inspection of Sewer Pipe: CCTV for _____ Dollars _____ Cents per LF	\$ <u>No Bid</u>
75.	15" Straight Headwall (Standard or Raised) for <u>One Thousand Five Hundred Fifty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>1550.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
76.	18" Straight Headwall (Standard or Raised) for <u>One Thousand Six Hundred Fifty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>1650.00</u>
77.	24" Straight Headwall (Standard or Raised) for <u>One Thousand Seven Hundred Seventy One</u> Dollars <u>Zero</u> Cents per EA	\$ <u>1771.00</u>
78.	15" Pipe Culvert Headwall for <u>One Thousand Five Hundred forty three</u> Dollars <u>Zero</u> Cents per EA	\$ <u>1543.00</u>
79.	18" Pipe Culvert Headwall for <u>One Thousand Six Hundred Forty five</u> Dollars <u>Zero</u> Cents per EA	\$ <u>1645.00</u>
80.	24" Pipe Culvert Headwall for <u>One Thousand Seven Hundred Forty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>1740.00</u>
81.	30" Pipe Culvert Headwall for <u>Two Thousand Fifteen</u> Dollars <u>Zero</u> Cents per EA	\$ <u>2015.00</u>
82.	36" Pipe Culvert Headwall for <u>Two Thousand Three Hundred Sixty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>2360.00</u>
83.	42" Pipe Culvert Headwall for <u>Two Thousand Six Hundred Sixty Five</u> Dollars <u>Zero</u> Cents per EA	\$ <u>2665.00</u>
84.	48" Pipe Culvert Headwall for <u>Three Thousand Eighty Seven</u> Dollars <u>Zero</u> Cents per EA	\$ <u>3087.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
85.	18" Sloped and Flared Box Inlet-Outlet for <u>Two Thousand One Hundred Sixty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>2160.00</u>
86.	24" Sloped and Flared Box Inlet-Outlet for <u>Two Thousand Seven Hundred Eighty Seven</u> Dollars <u>Zero</u> Cents per EA	\$ <u>2787.00</u>
87.	30" Sloped and Flared Box Inlet-Outlet for <u>Two Thousand Seventy five</u> Dollars <u>Zero</u> Cents per EA	\$ <u>2075.00</u>
88.	36" Sloped and Flared Box Inlet-Outlet for <u>Four Thousand Two Hundred twenty one</u> Dollars <u>Zero</u> Cents per EA	\$ <u>4221.00</u>
89.	15" Impact Stilling Basin for _____ Dollars _____ Cents per EA	NO \$ <u>Bid</u>
90.	18" Impact Stilling Basin for <u>Three Thousand Eight Hundred One</u> Dollars <u>Zero</u> Cents per EA	\$ <u>3801.00</u>
91.	24" Impact Stilling Basin for <u>Three Thousand nine Hundred One</u> Dollars <u>Zero</u> Cents per EA	\$ <u>3901.00</u>
92.	30" Impact Stilling Basin for _____ Dollars _____ Cents per EA	NO \$ <u>Bid</u>
93.	36" Impact Stilling Basin for <u>Seven Thousand nine Hundred ninety five</u> Dollars <u>Zero</u> Cents per EA	\$ <u>7995.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
94.	48" Impact Stilling Basin for <u>Eight Thousand One Hundred forty</u> Dollars <u>zero</u> Cents per EA	\$ <u>8140.00</u>
95.	Bottom Paved Ditch for _____ Dollars _____ Cents per SY	\$ <u>NO Bid</u>
96.	Aggregate Channel Lining for Slope Protection for <u>Seventy Six</u> Dollars <u>zero</u> Cents per TN	\$ <u>76.00</u>
97.	Seeding and Protection for <u>ONE</u> Dollars <u>zero</u> Cents per SY	\$ <u>1.00</u>
98.	Sodding for <u>EIGHT</u> Dollars <u>zero</u> Cents per SY	\$ <u>8.00</u>
99.	Gabion Mattress Channel Lining for _____ Dollars _____ Cents per CY	\$ <u>NO Bid</u>
100.	4" HDPE Perforated Pipe for <u>Twenty</u> Dollars <u>zero</u> Cents per LF	\$ <u>20.00</u>
101.	6" HDPE Perforated Pipe for <u>Thirty Seven</u> Dollars <u>zero</u> Cents per LF	\$ <u>37.00</u>
102.	4" PVC Pipe for <u>Sixty two</u> Dollars <u>zero</u> Cents per LF	\$ <u>62.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
103.	6" PVC Pipe for <u>Sixty Four Dollars And</u> Dollars <u>Twenty One</u> Cents per LF	\$ <u>64.21</u>
104.	8" PVC Sanitary Sewer (0-8' No Rock) for <u>Seventy One</u> Dollars <u>thirty Seven</u> Cents per LF	\$ <u>71.37</u>
105.	10" PVC Sanitary Sewer (0-8' No Rock) for <u>Eighty two</u> Dollars <u>Ninety</u> Cents per LF	\$ <u>82.90</u>
106.	12" PVC Sanitary Sewer (0-8' No Rock) for <u>Ninety Three</u> Dollars <u>fifty</u> Cents per LF	\$ <u>93.50</u>
107.	15" PVC Sanitary Sewer (0-8' No Rock) for <u>One Hundred One</u> Dollars <u>fourteen</u> Cents per LF	\$ <u>101.14</u>
108.	18" PVC Sanitary Sewer (0-8' No Rock) for <u>One Hundred Twenty</u> Dollars <u>zero</u> Cents per LF	\$ <u>120.00</u>
109.	8" Ductile Iron Sewer Pipe (0-8' No Rock) for <u>One Hundred twenty One</u> Dollars <u>forty one</u> Cents per LF	\$ <u>121.41</u>
110.	10" Ductile Iron Sewer Pipe (0-8' No Rock) for <u>One Hundred Forty Seven</u> Dollars <u>Fifty one</u> Cents per LF	\$ <u>147.51</u>
111.	12" Ductile Iron Sewer Pipe (0-8' No Rock) for <u>One Hundred Sixty Nine</u> Dollars <u>thirty</u> Cents per LF	\$ <u>169.30</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
112.	14" Ductile Iron Pipe (0-8' No Rock) for <u>One Hundred Eighty Three</u> Dollars <u>Nine</u> Cents per LF	\$ <u>183.09</u>
113.	Sanitary Sewer By-Pass Pumping for <u>One Thousand Five Hundred Fifty</u> Dollars <u>Zero</u> Cents per DAY	\$ <u>1550.00</u>
114.	Two Way Sewer Service Cleanout for <u>Six Hundred Seventy Four</u> Dollars <u>Eighty five</u> Cents per EA	\$ <u>674.85</u>
115.	4" X 8" PVC Sanitary Sewer Tee & up to 6 ft of lateral for <u>Six Hundred Twenty nine</u> Dollars <u>Eighty five</u> Cents per EA	\$ <u>629.85</u>
116.	6" X 8" PVC Sanitary Sewer Tee & up to 6 ft of lateral for <u>Six Hundred Seventy nine</u> Dollars <u>Eighty five</u> Cents per EA	\$ <u>679.85</u>
117.	Lexington Sanitary Sewer Manholes (4' Dia.) (0-8' No Rock) for <u>Two Thousand Six Hundred fifty four</u> Dollars <u>Zero</u> Cents per EA	\$ <u>2654.00</u>
118.	Lexington Sanitary Sewer Manhole (5' Dia.) (0-8' No Rock) for <u>Three Thousand Nine Hundred Sixty Seven</u> Dollars <u>Zero</u> Cents per EA	\$ <u>3967.00</u>
119.	Lexington Sanitary Sewer Manhole (6' Dia.) (0-8' No Rock) for <u>Four Thousand Seven Hundred Sixty three</u> Dollars <u>Zero</u> Cents per EA	\$ <u>4763.00</u>
120.	Manhole - Additional Vertical Depth Deeper than 8'0" (4' dia) for <u>Three Hundred Seven</u> Dollars <u>Zero</u> Cents per VF	\$ <u>307.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
121.	Manhole - Additional Vertical Depth Deeper than 8'0" (5' dia) for <u>Three Hundred Fifty Six</u> Dollars <u>Zero</u> Cents per VF	\$ <u>356.00</u>
122.	Manhole - Additional Vertical Depth Deeper than 8'0" (6' dia) for <u>Four Hundred Sixty Eight</u> Dollars <u>Zero</u> Cents per VF	\$ <u>468.00</u>
123.	Manhole - Additional for Adjustable Frame and Cover for <u>Five Hundred</u> Dollars <u>Zero</u> Cents per EA	\$ <u>500.00</u>
124.	Woven Wire Fence 4' Height for <u>Thirty Eight</u> Dollars <u>Zero</u> Cents per LF	\$ <u>38.00</u>
125.	Chain Link Fence 4' Height for <u>Eighty</u> Dollars <u>Zero</u> Cents per LF	\$ <u>80.00</u>
126.	Privacy Fence (installation) for <u>Eighty Five</u> Dollars <u>Zero</u> Cents per LF	\$ <u>85.00</u>
127.	Backhoe (Small) with Operator for <u>Eighty Five</u> Dollars <u>Zero</u> Cents per HR	\$ <u>85.00</u>
128.	Dump Truck (single axle) with Driver for <u>Seventy</u> Dollars <u>Zero</u> Cents per HR	\$ <u>70.00</u>
129.	Dump Truck (tri-axle) with Driver for <u>Eighty Eight</u> Dollars <u>Zero</u> Cents per HR	\$ <u>88.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
130.	Jackhammer with Operator for <u>Eighty</u> Dollars <u>Zero</u> Cents per HR	\$ <u>80.00</u>
131.	Skid Loader with Operator for <u>Eighty</u> Dollars <u>Zero</u> Cents per HR	\$ <u>80.00</u>
132.	Check Dam for <u>Five Hundred</u> Dollars <u>Zero</u> Cents per TN	\$ <u>500.00</u>
133.	Sediment Trap for <u>Five Hundred</u> Dollars <u>Zero</u> Cents per CY	\$ <u>500.00</u>
134.	Sediment Pond for <u>One Thousand Five Hundred</u> Dollars <u>Zero</u> Cents per CY	\$ <u>1500.00</u>
135.	Silt Fence for <u>Three</u> Dollars <u>Zero</u> Cents per LF	\$ <u>3.00</u>
136.	Storm Drain Inlet Protection for <u>One Hundred Fitty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>150.00</u>
137.	Filter Strip for <u>One Hundred Ten</u> Dollars <u>Zero</u> Cents per SY	\$ <u>110.00</u>
138.	Stream Crossing for <u>Six Thousand Six Hundred</u> Dollars <u>Zero</u> Cents per EA	\$ <u>6600.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
139.	Pump-Around Flow Diversion for <u>Four Hundred Fifty</u> Dollars <u>Zero</u> Cents per DAY	\$ <u>450.00</u>
140.	Construction Dewatering for <u>Four Hundred fifty</u> Dollars <u>Zero</u> Cents per DAY	\$ <u>450.00</u>
141.	Geotextile Construction (Type I) for <u>Five</u> Dollars <u>Eighty</u> Cents per SY	\$ <u>5.80</u>
142.	Geotextile Construction (Type II) for <u>Five</u> Dollars <u>Sixty</u> Cents per SY	\$ <u>5.60</u>
143.	Geotextile Construction (Type III) for <u>Five</u> Dollars <u>fifty</u> Cents per SY	\$ <u>5.50</u>
144.	Geotextile Construction (Type IV) for <u>Five</u> Dollars <u>ten</u> Cents per SY	\$ <u>5.10</u>
145.	Edge Key for _____ Dollars _____ Cents per LF	\$ <u>NO Bid</u>
146.	Pipe Plugging for Pipes less than or equal to 24" for <u>Six Hundred</u> Dollars <u>Zero</u> Cents per EA	\$ <u>600.00</u>
147.	Pipe Plugging for Pipes 30"- 48" for <u>Seven Hundred Fifty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>750.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
148.	Flowable Fill for <u>One Hundred Fitty</u> Dollars <u>Zero</u> Cents per CY	\$ <u>150.00</u>
149.	Fiber Reinforced PCC Pavement for _____ Dollars _____ Cents per CY	\$ <u>NO Bid</u>
150.	Single Block Masonry Retaining Wall for <u>One Hundred Twenty five</u> Dollars <u>Zero</u> Cents per SF	\$ <u>125.00</u>
151.	Erosion Control Blanket: Degradable Erosion Control Mat for <u>Ten</u> Dollars <u>Sixty</u> Cents per SY	\$ <u>10.60</u>
152.	Erosion Control Blanket: Turf Reinforcement Mat for <u>Fifteen</u> Dollars <u>Sixty</u> Cents per SY	\$ <u>15.60</u>
153.	Project Sign for <u>Four Hundred Fitty</u> Dollars <u>Zero</u> Cents per EA	\$ <u>450.00</u>
154.	Steel W Beam Guardrail and End Treatments for _____ Dollars _____ Cents per LF	\$ <u>NO Bid</u>
155.	Articulating Concrete Block for _____ Dollars _____ Cents per SY	\$ <u>NO Bid</u>
156.	Reinforced Concrete Pipe Crack Repairs & Manhole Rehabilitation for <u>Three Hundred Seven</u> Dollars <u>Zero</u> Cents per LF	\$ <u>307.00</u>

Item No.	Item Description With Unit of Measurement and Unit Bid Price Written In Words	Unit Price
157.	Sawcutting for <u>Three</u> Dollars <u>zero</u> Cents per LF	\$ <u>3.00</u>
158.	Precast Reinforced Concrete Box Culvert (3' X 2') for <u>One Thousand Five Hundred Forty</u> Dollars <u>zero</u> Cents per LF	\$ <u>1540.00</u>
159.	Precast Reinforced Concrete Box Culvert (3' X 3') for <u>One Thousand Six Hundred Twenty</u> Dollars <u>zero</u> Cents per LF	\$ <u>1620.00</u>
160.	Precast Reinforced Concrete Box Culvert (4' X 2') for <u>One Thousand Five Hundred Eighty</u> Dollars <u>zero</u> Cents per LF	\$ <u>1580.00</u>
161.	Precast Reinforced Concrete Box Culvert (4' X 3') for <u>One Thousand Eight Hundred forty</u> Dollars <u>zero</u> Cents per LF	\$ <u>1840.00</u>
162.	Detectable Warning Surface Tile-Overlay for _____ Dollars _____ Cents per SF	\$ <u>NO Bid</u>
163.	Detectable Warning Surface Tile-Imbedded Installation for _____ Dollars _____ Cents per SF	\$ <u>NO Bid</u>
164.	Bulb-out: Gutter Cover for _____ Dollars _____ Cents per LF	\$ <u>NO Bid</u>
165.	Bulb-out: Asphalt Repair for _____ Dollars _____ Cents per SF	\$ <u>NO Bid</u>

Mobilization, Traffic Control, Construction Staking and E&S Permitting will be paid on a sliding percentage scale for increments of the final price for Work, per the table below.

(For example, if the final total of Bid Item Prices for the work is \$24,000, Mobilization would be (\$10,000 X 15%) plus (\$10,000 X 10%) plus (\$4,000 X 5%) = \$2,700)

No additional compensation will be paid beyond a contract price of \$100,000. For example, the mobilization cost for a \$100,000 price of work will be identical to that for a \$110,000 price of work.

Applicability of Traffic Control, Construction Staking and E&S Permitting will be agreed upon individually for each Purchase Order.

Table of Incremental Costs for Mobilization and Additional Services

Increment Price for Work	(a) Mobilization Cost %	(b) Traffic Control Cost %	(c) Construction Staking Cost %	(d) SWPP Etc. Cost %
\$0 - 10,000	15.0	7.5	7.5	5.0
\$10,000 - 20,000	10.0	4.5	4.5	0.5
\$20,000 - 30,000	5.0	3.0	3.0	0.5
\$30,000 - 50,000	5.0	2.5	2.5	0.5
\$50,000 - 75,000	5.0	2.5	2.5	0.5
\$75,000 - 100,000	4.0	2.0	2.0	0.5

5. STATEMENT OF BIDDER'S QUALIFICATIONS

The following statement of the Bidder's qualifications is required to be filled in, executed, and submitted with the Proposal:

1. Name of Bidder: Jodd Johnson Contracting, Inc
2. Permanent Place of Business: 499 Dillehay St. Danville, KY 40422
3. When Organized: 10/1/93
4. Where Incorporated: Kentucky
5. Construction Plant and Equipment Available for this Project:
Trucks, Backhoes, Loaders, Dump Trucks, Borim machine, Scrapers,
Excavators, Dozers, Skid Steers.

(Attach Separate Sheet If Necessary)

6. Financial Condition:

If specifically requested by the OWNER, the apparent low Bidder is required to submit its latest three (3) years audited financial statements to the OWNER'S Division of Central Purchasing within seven (7) calendar days following the bid opening.
7. In the event the Contract is awarded to the undersigned, surety bonds will be furnished by:
Employers Mutual Casualty Company (Surety)
Signed: Paula Inague (Representative of Surety)
8. The following is a list of similar projects performed by the Bidder: (Attach separate sheet if necessary).

<u>NAME</u>	<u>LOCATION</u>	<u>CONTRACT SUM</u>
Century Mill Truck Sewer	Lexington	1,131,904.45
Meadows-Northland-Arlington	Lexington	1,418,561.00
Phylben Village	Denville	1,901,450.00

9. The Bidder has now under contract and bonded the following projects:

<u>NAME</u>	<u>LOCATION</u>	<u>CONTRACT SUM</u>
Century Mill Truck Sewer	Lexington	1,131,904.45

10. List Key Bidder Personnel who will work on this Project.

<u>NAME</u>	<u>POSITION DESCRIPTION</u>	<u>NO. OF YEARS WITH BIDDER</u>
Jeremy Johnson	Superintendent	20
Rick Mullins	Foreman	8
Tom Johnson	Operations Manager	20

11. DBE Participation on current bonded projects under contract:

<u>SUBCONTRACTORS</u> <u>(LIST)</u>	<u>PROJECT</u> <u>(SPECIFIC TYPE)</u>	<u>DBE</u>	<u>% of WORK</u>
<u>MECO Enterprises</u>	<u>Century Dill Trunk Seeder - Supplier - Pipe</u>	<u>Y</u>	<u>10</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
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<u> </u>	<u> </u>	<u> </u>	<u> </u>

(USE ADDITIONAL SHEETS IF NECESSARY)

6. LIST OF PROPOSED SUBCONTRACTORS

See note in Part II.20, Information for Bidders regarding UPC bidding.

The following list of proposed subcontractors is required by the OWNER to be executed, completed and submitted with the BIDDER'S FORM OF PROPOSAL. All subcontractors are subject to approval of the Lexington-Fayette Urban County Government. Failure to submit this list completely filled out may be cause for rejection of bid.

<u>BRANCH OF WORK - LIST EACH MAJOR ITEM</u> Such as: Grading, bituminous paving, concrete, seeding and protection, construction staking, etc.	<u>SUBCONTRACTOR</u>	<u>DBE</u> <u>Yes/No</u>	% of Work
1. <u>Seeding - Protection</u>	Name: <u>Cedar Valley Seeding</u> Address: <u>851 Redman Road</u> <u>Paris, KY 40361</u>	<u>Yes</u>	<u>5</u>
2. <u>Pipe Supplier</u>	Name: <u>MECO Enterprises</u> Address: <u>P.O. Box 463</u> <u>London, KY 40743</u>	<u>Yes</u>	<u>5</u>
3. _____	Name: _____	_____	_____
	Address: _____	_____	_____
4. _____	Name: _____	_____	_____
	Address: _____	_____	_____
5. _____	Name: _____	_____	_____
	Address: _____	_____	_____

(Attach additional sheet(s) if necessary.)



7. **LFUCG MBE/WBE PARTICIPATION FORM**

See note in Part II.20, Information for Bidders regarding UPC bidding.

Bid/RFP/Quote Reference # 107-2014

The MBE/WBE subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to Central Purchasing for approval immediately.

MBE/WBE Company, Name, Address, Phone, Email	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1. Cedar Valley Seeding 851 Redman Rd. Paris, KY 40361 859-987-1497	Seeding / Protection		Would be 5% if included Contract Amt
2. GEO Enterprises P.O. Box 463 London, KY 40743	Pipe Supplier		5% if included Contract Amount
3.			
4.			

The undersigned company representative submits the above list of MBE/WBE firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Judd Johnson Contracting Inc

Company

Linda Johnson

Company Representative

8-25-14
Date

President
Title



8. LFUCG MBE/WBE SUBSTITUTION FORM

See note in Part II.20, Information for Bidders regarding UPC bidding.

Bid/RFP/Quote Reference # 107-2014

The substituted MBE/WBE subcontractors listed below have agreed to participate on this Bid/RFP/Quote. These substitutions were made prior to or after the job was in progress. These substitutions were made for reasons stated below and are now being submitted to Central Purchasing for approval. By the authorized signature of a representative of our company, we understand that this information will be entered into our file for this project.

SUBSTITUTED MBE/WBE Company Name, Address, Phone, Email	MBE/WBE Formally Contracted/ Name, Address, Phone, Email	Work to Be Performed	Reason for the Substitution	Total Dollar Value of the Work	% Value of Total Contract
1.					
2.					
3.					
4.					

The undersigned acknowledges that any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

Todd Johnson Contracting Inc

Company

8-25-14

Date

Mark Johnson

Company Representative

President

Title



9. **MBE/WBE QUOTE SUMMARY FORM**

See note in Part II.20, Information for Bidders regarding UPC bidding.

Bid/RFP/Quote Reference # 107-2014

The undersigned acknowledges that the minority subcontractors listed on this form did submit a quote to participate on this project.

Company Name <i>Jodd Johnson Contracting INC</i>	Contact Person <i>Kim Johnson</i>
Address/Phone/Email <i>497 Dillehay St. Danville, KY 40422 859-238-9489 tjc@joddjohncontracting.com</i>	Bid Package / Bid Date <i>2014 Construction Unit Price Contract 107-2014</i>

MBE/WBE Company Address	Contact Person	Contact Information (work phone, Email, cell)	Date Contacted	Services to be performed	Method of Communication (email, phone meeting, ad, event etc)	Total dollars \$\$ Do Not Leave Blank (Attach Documentation)	MBE* AA HA AS NA Female
<i>Cedar Valley Seeding 851 Redman Rd Paris, KY 40361</i>	<i>Susan Redman</i>	<i>859-987-1497 cvseeding@windstream.net</i>	<i>8/15/14</i>	<i>Seeding Protection</i>	<i>phone - email</i>	<i>should be 5% of whatever contract amount</i>	
<i>6 RDD Enter Offices P.O. Box 403 London, KY 40143</i>	<i>6191 Bacon</i>	<i>tel 864-7556 6191bacon@windstream.net</i>	<i>8/15/14</i>	<i>Supplier</i>	<i>email</i>	<i>should be 5% of whatever the contract amount was.</i>	

(MBE designation / AA=African American / HA= Hispanic American/AS = Asian American/Pacific Islander/ NA= Native American)

The undersigned acknowledges that all information is accurate. Any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Jodd Johnson Contracting, Inc
Company

Kim Johnson
Company Representative

8-25-14
Date

President
Title



10. LFUCG MBE/WBE SUBCONTRACTOR MONTHLY PAYMENT REPORT

See note in Part II.20, Information for Bidders regarding UPC bidding.

The LFUCG has a 10% goal plan adopted by city council to increase the participation of minority and women owned businesses in the procurement process. In order to measure that goal LFUCG will track spending with MBE/WBE vendors on a monthly basis. By the signature below of an authorized company representative, you certify that the information is correct, and that each of the representations set forth below is true. Any misrepresentation may result in termination of the contract and/or prosecution under applicable Federal and State laws concerning false statements and false claims. Please submit this form monthly to the Division of Central Purchasing/ 200 East Main Street / Room 338 / Lexington, KY 40507.

Bid/RFP/Quote # _____

Total Contract Amount Awarded to Prime Contractor for this Project _____

Project Name/ Contract #	Work Period/ From: _____ To: _____
Company Name:	Address: _____
Federal Tax ID:	Contact Person: _____

Subcontractor Vendor ID (name, address, phone, email)	Description of Work	Total Subcontract Amount	% of Total Contract Awarded to Prime for this Project	Total Amount Paid for this Period	Purchase Order number for subcontractor work (please attach PO)	Scheduled Project Start Date	Scheduled Project End Date

By the signature below of an authorized company representative, you certify that the information is correct, and that each of the representations set forth below is true. Any misrepresentations may result in the termination of the contract and/or prosecution under applicable Federal and State laws concerning false statements and false claims.

Todd Johnson Contracting Inc

Company

8-25-14

Date

Todd Johnson

Company Representative

President

Title



11. LFUCG STATEMENT OF GOOD FAITH EFFORTS
See note in Part II.20, Information for Bidders regarding UPC bidding.

Bid/RFP/Quote # 107 2014

By the signature below of an authorized company representative, we certify that we have utilized the following methods to obtain the maximum practicable participation by minority and women owned business enterprises on the project. Please indicate which methods you used by placing an X in the appropriate place.

- Attended LFUCG Central Purchasing Economic Inclusion Outreach Event
- Sponsored Economic Inclusion event to provide networking opportunities
- Requested a list of MBE/WBE subcontractors or suppliers from LFUCG Economic Engine
- Advertised for MBE/WBE subcontractors or suppliers in local or regional newspapers
- Showed evidence of written notice of contracting and/or supplier opportunities to MBE/WBE firms at least seven days prior to the bid opening date
- Provided copies of quotations submitted by MBE/WBE firms which were not used and/or responses from firms indicating they would not be submitting a quote
- Provided plans, specifications, and requirements to interested MBE/WBE subcontractors
- Other
Please list any other methods utilized that aren't covered above.
Contacted DBE's, Todd Johnson Contracting has the 10% goal.

The undersigned acknowledges that all information is accurate. Any misrepresentations may result termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

Todd Johnson Contracting
Company

Linda Johnson
Company Representative

8/25/14
Date

President
Title

12. AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION, NON-CONFLICT OF INTEREST

I hereby swear (or affirm) under the penalty for false swearing:

1. That I am the Bidder (if the Bidder is an individual), a partner of the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the attached bid has been arrived at by the Bidder independently, and has been submitted without collusion with, and without any agreement, understanding or planned common course of action, with any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition;
3. That the contents of the bid or bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished, with the bid or bids, and will not be communicated to any such person, prior to the official opening of the bid or bids;
4. That the Bidder is legally entitled to enter into the contracts with the Lexington-Fayette Urban County Government, and is not in violation of any prohibited conflict of interest;
5. (Applicable to corporation only) That as a foreign corporation, we are registered with the Secretary of State, Commonwealth of Kentucky, and authorized to do business in the State _____ or, that as a domestic corporation, we are in good standing with the Secretary of State, Commonwealth of Kentucky . Check the statement applicable.
6. In submitting the above, it is expressly agreed that, upon proper acceptance by the Lexington-Fayette Urban County Government of any or all items bid above, a contract shall thereby be created with respect to the items accepted.
7. That I have fully informed myself regarding the accuracy of the statements made in this statement.
8. That I certify that Subcontractors have not and will not be awarded to any firm(s) that have been debarred from noncompliance with the Federal Labor Standards, Title VI of the Civil Rights Act of 1964 As Amended, Executive Order 11246 As Amended or any other Federal Law.

Judd Johnson Contracting Inc
Company
8/25/14
Date

Judd Johnson
Company Representative
President
Title

13. STATEMENT OF EXPERIENCE

Attached.

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

NAME OF INDIVIDUAL: _____

POSITION/TITLE: _____

STATEMENT OF EXPERIENCE: _____

* Include all officers, office management's, Affirmative Action officials, and field management personnel. (Attach separate sheets if necessary.)

TOM JOHNSON
6645 Lebanon Road
Danville, KY 40422

Todd Johnson Contracting, Inc.
1993-2014

RESPONSIBILITIES

Coordinate and manage all field operations.
Estimator: Document reviews, estimating, and preparing of bid documents.
scheduling: maintaining project schedules and all reports.
Project Manager: In house and field management of projects from startup to finish.
Project Cost Control: Monitor all material, labor and equipment cost of each project, maintain weekly reports on cost.

James N. Gray Construction
1970-1993

JOB RESPONSIBILITIES:

Responsible for the coordination and management of onsite construction activities from project startup to completion; and for ensuring that work performed by Gray team members and subcontractors were performed safely, met or exceeded quality standards, and was within budget and on schedule.

EXPERIENCE:

Twenty years experience in highway, bridge, residential, commercial and industrial construction, including warehouses, office complexes, wire and cable mills, steel mills and food processing plants.

GRAY PROJECT EXPERIENCE:

Whirlpool, Kay-Bee Toy & Hobby Shops, American Tokyo Rope, John Hill Bailey Learning Center, Danville, KY.; Litton Industries, Hebron, KY.; Clark Equipment, Lexington, KY.; Topy Industries, Frankfort, KY.; Kobe Steel, Seymour, IN.; Winchester Farms Dairy, Winchester, KY.; Nutrisearch, Winchester, KY.; and TG (USA) Corporation, Perryville, MO.; Amgen, Louisville, KY.; Trim Masters Inc., Harrodsburg, KY.; International Crankshaft, Georgetown, KY.; Roll Forming Inc., Shelbyville, KY.; Pikeville National Bank, Pikeville, KY.

JEREMY JOHNSON
514 PERKINS AVENUE
DANVILLE, KY 40422
(859) 326-0335

WORK HISTORY

1993-2014 *Vice President of Todd Johnson Contracting, Inc.*

*Superintendent
Responsible for all coordination and management of projects
from startup to completion.
Responsibilities include but not limited to managing the day to day
Operation of installing sewer and water force mains, pump stations,
Concrete, excavations and Grade and Drain.
Competent person for Safety on all projects
Blaster*

Responsible for supervision of all subcontractors.

1992-1993 *C & W Company
Laborer: Blacktopping, blasting apprentice, layout, operator*

1991-1992 *Central Rock Company
Road Crew laborer, blasting apprentice, operator*

LINDA JOHNSON
6645 Lebanon Road
DANVILLE, KY 40422
(859) 236-6475

QUALIFICATIONS:

Thirty five years in office management, administration, accounting, human resources, purchasing, and data processing.

EXPERIENCE:

1965-1969 Genesco: Office clerk: Duties included data entry of labor, and time studies.

1969-1975 Certified Brakes: Secretary for Plant Manager transferred to Data Processing as Assistant Manager, duties included managing six data entry clerks, monthly and yearly close, physical inventory for entire plant.

1975-1993 E. D. Bullard Company: Assistant Human Resource Manager: Duties included all personnel activities, insurance, safety program seminars, orientations, interviewing and counseling.

**1993-2014 Todd Johnson Contracting, Inc.
President**

Duties include: Administration: Manage the day to day operations of the business.

Education:

**Boyle County High School
Harrodsburg Vocational Accounting
Somerset Community College
Quest Solutions -Digitizing Classes -**

14. EQUAL OPPORTUNITY AGREEMENT

The Law

* Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.

* Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and subcontractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.

* Section 503 of the Rehabilitation Act of 1973 States:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

* Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal Contracts.

* Section 206 (A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

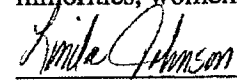
The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors, and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractor may be declared ineligible for future consideration.

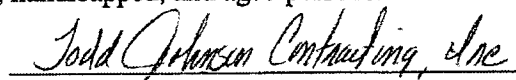
Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped, and aged persons.



Signature



Name of Business

The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.

The Kentucky equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any count, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) *The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) *The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) *The contract will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) *The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities – Information required

- (1) *For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*
- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor – Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 – 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions quoted above to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

15. EQUAL EMPLOYMENT OPPORTUNITY AFFIRMATIVE ACTION POLICY

It is the policy of Todd Johnson Contracting, Inc.

to assure that all applicants for employment and all employees are treated on a fair and equitable basis without regard to their race, religion, sex, color, handicap, natural origin or age.

Such action shall include employment, promotion, demotion, recruitment or recruitment advertising, layoff or termination, rates of pay and other forms of compensation, and selection for training, whether apprenticeship and/or on-the-job-training.

Furthermore, this company agrees to make special recruitment efforts to hire the protected class whenever feasible. This company also agrees to adhere to all applicable federal, state, and local laws relating to Equal Employment Opportunity for all individuals.

16. WORKFORCE ANALYSIS FORM

Name of Organization: Sodd Johnson Contracting Inc Date: 8 1 25 1 14

Categories	Total	White		Black		Other		Total	
		M	F	M	F	M	F	M	F
Administrators	2	1	1					1	1
Professionals									
Superintendents	1	1						1	
Supervisors	3	3						3	
Foremen									
Technicians									
Protective Service									
Para-Professionals									
Office/Clerical	1								1
Skilled Craft	12		12					12	
Service/Maintenance									
Total:	19	17	2					17	2

Prepared By: Sodd Johnson

17. EVIDENCE OF INSURABILITY

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT CONSTRUCTION PROJECT
 (Use separate form for each Agency or Brokerage agreeing to provide coverage)

Names Insured: David Johnson Construction, Inc. Employee ID: 601-1246905
 Address: 499 Dillehey Street, Danville KY 40422 Phone: 859 238-9489
 Project to be insured: 2014 Construction Unit Price Contract

In lieu of obtaining certificates of insurance at this time, the undersigned agrees to provide the above Named Insured with the minimum coverage listed below. These are outlined in the Insurance and Risk Management of Part V (Special Conditions), including all requirements, and conditions:

Section Items	Coverage	Minimum Limits and Policy Requirements	Limits Provided To Insured	Name of Insurer	A.M. Best's Code	Rating
SC-3, Section 2, Part 4.1 - see provisions	CGI	\$1,000,000 per occ. And \$2,000,000 aggregate	\$ 1,000,000 Per Occ. 2,000,000 Aggregate	National Trust Insurance Co.	20141	A
SC-3, Section 2, Part 4.1 - see provisions	AUTO	\$2,000,000/per occ.	\$ 1,000,000 CSL	National Trust Insurance Co.	20141	A
SC-3, Section 2, Part 4.1 - see provisions	WC	Statutory w/endorsement as noted	\$ 4,000,000	Kentucky Assoc General Contract		

Section 2 includes required provisions, statements regarding insurance requirements, and the undersigned agrees to comply with all provisions for the coverage's checked above unless stated otherwise when submitting.

BEOWN & BROWN OF KY, Inc.
 Agency or Brokerage
 Name of Authorized Representative: David C. Walker
 Title: Profit Center Leader
 Street Address: P O Box 23410 13101 Magisterial Dr.
 City: Louisville, KY 40223 State: _____ Zip: _____
 Telephone Number: 502-241-7072 Date: 08/25/14
 Authorized Signature: [Signature]

NOTE: Authorized signatures may be the agent's if agent has placed insurance through an agency agreement with the insurer. If insurance is brokered, authorized signature must be that of authorized representative of insurer.

NOTEPAD:

HOLDER CODE LEXFAYC
INSURED'S NAME Todd Johnson Contracting Inc.

JOHNT01
OP ID: BC

PAGE 2
DATE 10/30/14

30 day notice of cancellation applies with the exception of 10 days for non payment of premium.

18. DEBARRED FIRMS

PROJECT NAME: 2014 Construction Unit Price Contract

BID NUMBER: 107-2014

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
LEXINGTON, KY

All prime Contractors shall certify that Subcontractors have not and will not be awarded to any firms that has been debarred for noncompliance with the Federal Labor Standards, Title VI of the Civil Rights Act of 1964 As Amended, Executive Order 11246 As Amended or any other Federal Law.

All Bidders shall complete the attached certification in duplicate and submit both copies to the Owner with the bid proposal. The Owner (grantee) shall transmit one copy to the Lexington-Fayette Urban County Government, Division of Community Development, within fourteen (14) days after bid opening.

The undersigned hereby certifies that the firm of Jodd Johnson Contracting, Inc has not and will not award a subcontract, in connection with any contract award to it as the result of this bid, to any firm that has been debarred for noncompliance with the Federal labor Standards, Title VI of the civil Rights Act of 1964, Executive Order 11246 as amended or any Federal Law.

Jodd Johnson Contracting, Inc
Name of Firm Submitting Bid

Kimber Johnson
Signature of Authorized Official

President
Title

8/25/14
Date

19. DEBARMENT CERTIFICATION

All contractors/subcontractors shall complete the following certification and submit it with the bid proposal.

The contractor/subcontractor certifies in accordance with Executive Order 12549 (Debarment and Suspension 2/18/86) that to the best of its knowledge and belief, that it and its principals:

- 1) Are not presently debarred, suspended, proposed for debarment, declared negligible, or voluntarily excluded from covered transactions or contract by any Federal department or agency for noncompliance with the Federal Labor Standards, Title VI of the Civil Rights Act of 1964 as amended, Executive Order 11246 as amended or any other Federal law;
 - a) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - b) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(a) of this certification; and
 - c) Have not within a three year period preceding this bid has one or more public (Federal, State or local) transactions or contracts terminated for cause or default.
- 2) Where the contractor is unable to certify to any of the statements in this certification, such prospective contractors shall attach an explanation to this certification form.

Firm Name: Judd Johnson Contracting Inc

Project: 2014 Contractors Unit Price Contract

Printed Name and Title of Authorized Representative: Linda Johnson

Signature: Linda Johnson

Date: 8/25/14

END OF SECTION

PART IV
GENERAL CONDITIONS
TABLE OF CONTENTS

1.	DEFINITIONS	6
2.	PRELIMINARY MATTERS.....	10
3.	CONTRACT DOCUMENTS: INTENT, CONFLICTS, AMENDING AND REUSE	11
4.	AVAILABILITY OF LANDS; PHYSICAL CONDITIONS, REFERENCE POINTS	13
5.	CONTRACTOR'S RESPONSIBILITIES.....	15
6.	OTHER WORK.....	26
7.	OWNER'S RESPONSIBILITIES	27
8.	ENGINEER'S STATUS DURING CONSTRUCTION	28
9.	CHANGES IN THE WORK.....	30
10.	CHANGE OF CONTRACT PRICE	31
11.	CHANGE OF CONTRACT TIME.....	38
12.	WARRANTY AND GUARANTEE; TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK.....	38
13.	PAYMENTS TO CONTRACTOR AND COMPLETION	42
14.	SUSPENSION OF WORK AND TERMINATION	45
15.	MISCELLANEOUS	48

DETAILED TABLE OF CONTENTS OF GENERAL CONDITIONS

1. Definitions
2. Preliminary Matters
 - 2.1 Delivery of Bonds
 - 2.2 Copies of Documents
 - 2.3 Commencement of Contract Time; Notice to Proceed
 - 2.4 Starting the Project
 - 2.5 Before Starting Construction
 - 2.6 Submittal of Schedules
 - 2.7 Preconstruction Conference
 - 2.8 Finalizing Schedules
3. Contract Documents, Intent, Conflicts, Amending, and Reuse
 - 3.1 General
 - 3.2 Intent
 - 3.3 Conflicts
 - 3.4 Amending and Supplementing Contract Documents
 - 3.5 Reuse of Documents
4. Availability of Lands, Physical Conditions, Reference Points
 - 4.1 Availability of Lands
 - 4.2 Physical Conditions
 - 4.3 Physical Conditions - Underground Facilities
 - 4.4 Reference Points
5. CONTRACTOR'S Responsibilities
 - 5.1 Supervision
 - 5.2 Superintendence
 - 5.3 Labor
 - 5.4 Start-Up and Completion of Work
 - 5.5 Materials and Equipment
 - 5.6 Adjusting Progress Schedule
 - 5.7 Substitutes or "Or-Equal" Items
 - 5.8 Subcontractors, Suppliers and Others
 - 5.9 Patent Fees and Royalties
 - 5.10 Permits
 - 5.11 Laws and Regulations
 - 5.12 Taxes
 - 5.13 Use of Premises

- 5.14 Record Drawings
- 5.15 Shop Drawings and Samples
- 5.16 Continuing the Work
- 5.17 Erosion and Sediment Control

- 6. Other Work
 - 6.1 Related Work at Site
 - 6.2 Other Contractors or Utility Owners
 - 6.3 Delays Caused By Others
 - 6.4 Coordination

- 7. OWNER'S Responsibilities
 - 7.1 Communications
 - 7.2 Data and Payments
 - 7.3 Lands, Easements, and Surveys
 - 7.4 Change Orders
 - 7.5 Inspections, Tests, and Approvals
 - 7.6 Stop or Suspend Work

- 8. ENGINEER'S Status During Construction
 - 8.1 OWNER'S Representative
 - 8.2 Visits to Site
 - 8.3 Project Representation
 - 8.4 Clarification and Interpretations
 - 8.5 Authorized Variations in Work
 - 8.6 Rejecting Defective Work
 - 8.7 Shop Drawings
 - 8.8 Change Orders
 - 8.9 Payments
 - 8.10 Determinations for Unit Prices
 - 8.11 Decisions on Disputes
 - 8.12 Limitations on ENGINEER'S Responsibilities

- 9. Changes in the Work
 - 9.1 OWNER May Order Changes
 - 9.2 Claims
 - 9.3 Work Not in Contract Documents
 - 9.4 Change Orders
 - 9.5 Notice of Change

10. Change of Contract Price
 - 10.1 Total Compensation
 - 10.2 Claim for Increase or Decrease in Price
 - 10.3 Value of Work
 - 10.4 Cost of the Work
 - 10.5 Not to Be Included in Cost of the Work
 - 10.6 CONTRACTOR'S Fee
 - 10.7 Itemized Cost Breakdown
 - 10.8 Cash Allowance
 - 10.9 Unit Price Work

11. Change of Contract Time
 - 11.1 Change Order
 - 11.2 Justification for Time Extension
 - 11.3 Time Limits

12. Warranty and Guarantee; Tests and Inspections;
Correction, Removal or Acceptance of Defective Work
 - 12.1 Warranty and Guarantee
 - 12.2 Access to Work
 - 12.3 Tests and Inspections
 - 12.4 OWNER May Stop Work
 - 12.5 Correction or Removal of Defective Work
 - 12.6 One Year Correction Period
 - 12.7 Acceptance of Defective work
 - 12.8 Owner May Correct Defective Work

13. Payments to CONTRACTOR and Completion
 - 13.1 Schedule of Values
 - 13.2 Application for Progress Payments
 - 13.3 CONTRACTOR'S Warranty of Title
 - 13.4 Review of Application for Progress Payments
 - 13.5 Partial Utilization
 - 13.6 Final Inspection
 - 13.7 Final Application for Payment
 - 13.8 Final Payment and Acceptance
 - 13.9 CONTRACTOR'S Continuing Obligation
 - 13.10 Waiver of Claims

14. Suspension of Work and Termination

- 14.1 OWNER May Suspend Work
- 14.2 OWNER May Terminate
- 14.3 CONTRACTOR'S Services Terminated
- 14.4 Payment After Termination
- 14.5 CONTRACTOR May Stop or Terminate

15. Miscellaneous

- 15.1 Claims for Injury or Damage
- 15.2 Non-Discrimination in Employment
- 15.3 Temporary Street Closing or Blockage
- 15.4 Percentage of Work Performed by Prime CONTRACTOR
- 15.5 Clean-up
- 15.6 General
- 15.7 Debris Disposal

END OF SECTION

PART IV
GENERAL CONDITIONS

1. DEFINITIONS

Wherever used in these General Conditions or the other Contract Documents, the following terms have the meanings indicated which are applicable to both the singular and plural thereof.

1.1 Addenda

Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bid Documents or the Contract Documents.

1.2 Agreement

The written agreement between OWNER and CONTRACTOR covering the Work to be performed; other Contract Documents are attached to the Agreement and made a part thereof as provided therein.

1.3 Application for Payment

The form accepted by ENGINEER which is to be used by CONTRACTOR in requesting progress or final payments and which is to include such supporting documentation as is required by the Contract Documents.

1.4 Bid

The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

1.5 Bidder

An individual, partnership, or corporation, who submit unit prices for a contract with the OWNER, for the Work elements described in the proposed Contract Documents.

1.6 Bonds

Performance and payment bonds and other instruments of security.

1.7 Calendar Day

A calendar day of twenty-four hours measured from midnight to the next midnight shall constitute a day.

1.8 Change Order

A document recommended by ENGINEER, which is signed by CONTRACTOR and OWNER and authorizes an addition, deletion or revision in the Work, or an adjustment in the Contract Price or the Contract Time, issued on or after the Effective Date of the Agreement.

1.9 Contract Documents

The Advertisement for Bidders, Information for Bidders, Agreement, Addenda (which pertain to the Contract Documents), CONTRACTOR'S Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Agreement, the Bonds, these General Conditions, the Special Conditions, the Specifications and the Drawings as the same are more specifically identified in the Agreement, together with all amendments, modifications and supplements.

1.10 Contract Unit Price

The monies payable by OWNER to CONTRACTOR under the Contract Documents as stated in the Agreement. Unit Prices are to be firm for the term of this Contract.

1.11 Contract Time

The number of consecutive calendar days between the date of issuance of the Notice to Proceed and the contract completion date.

1.12 CONTRACTOR

The person, firm or corporation with whom OWNER has entered into the Agreement.

1.13 Defective

An adjective which when modifying the word Work refers to Work that is unsatisfactory, faulty or deficient, or does not conform to the Contract Documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the Contract Documents, or has been damaged prior to ENGINEER'S recommendation of final payment (unless responsibility for the protection thereof has been assumed by OWNER).

1.13 Drawings

The drawings which show the character and scope of the Work to be performed and which have been prepared or approved by ENGINEER and are referred to in the Contract Documents.

1.15 Effective Date of the Agreement

The date indicated in the Agreement on which it becomes effective.

1.16 ENGINEER

The authorized representative of the responsible division with the Lexington-Fayette Urban County Government.

1.17 Field Order

A documented order issued by ENGINEER which orders minor changes in the Work, but which does not involve a change in the Contract Price or the Contract Time.

1.18 Giving Notice

Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

1.19 Inspector

The authorized representative of the ENGINEER who is assigned to the site or any part thereof.

1.20 Laws and Regulations

Laws, rules, regulations, ordinances, codes and/or orders.

1.21 Notice of Award

The written notice by OWNER to the apparent successful bidder stating that upon compliance by the apparent successful bidder with the conditions enumerated therein, within the time specified, OWNER will sign and deliver the Agreement.

1.22 Notice to Proceed

A written notice given by OWNER to CONTRACTOR fixing the date on which the Contract Time will commence to run and on which CONTRACTOR shall start to perform CONTRACTOR'S obligations under the Contract Documents.

1.23 OWNER

The Lexington-Fayette Urban County Government.

1.24 Partial Utilization

Placing a portion of the Work in service for the purpose for which it is intended (or related purpose) before reaching Completion for all the Work.

1.25 Project

The total construction of which the Work to be provided under the Contract Documents may be the whole, or a part as indicated elsewhere in the Contract Documents.

1.26 Shop Drawings

All drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for CONTRACTOR to illustrate some portion of the Work and all illustrations, brochures, standard schedules, performance charts, instructions, diagrams and other information prepared by a Supplier and submitted by CONTRACTOR to illustrate material or equipment for some portion of the Work.

1.27 Specifications

Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and

workmanship as applied to the Work and certain administrative details applicable thereto.

1.28 Standard Specifications

The "Standard Specifications for Road and Bridge Construction", Transportation Cabinet, Department of Highways, Commonwealth of Kentucky, current edition. MUTCD shall refer to the "Manual of Uniform Traffic Control Devices".

1.29 Subcontractor

An individual, firm or corporation having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the site.

1.30 Special Conditions

The part of the Contract Documents which amends or supplements these General Conditions.

1.31 Supplier

A manufacturer, fabricator, supplier, distributor, materialman or vendor.

1.32 Underground Facilities

All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials: electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems or water.

1.33 Unit Price Work

Work to be paid for on the basis of unit prices.

1.34 Work

The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. Work is the result of performing services, furnishing labor and furnishing and incorporating materials and equipment into the construction, all as required by the Contract Documents.

1.35 Time Period

When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

2. PRELIMINARY MATTERS

2.1 Delivery of Bonds

When the CONTRACTOR delivers the executed Agreements to OWNER, CONTRACTOR shall also deliver to OWNER, such Bonds, Insurance Certificate, and Power of Attorney as CONTRACTOR may be required to furnish.

2.2 Copies of Documents

Owner shall furnish to CONTRACTOR up to two copies (unless otherwise specified in the Special Conditions) of the Contract Documents as are reasonably necessary for the execution of the Work. Additional copies will be furnished, upon request, at the cost of reproduction.

2.3 Commencement of Contract Time; Notice to Proceed

The Contract Time will commence to run on the day specified in the Notice to Proceed.

2.4 Starting the Project

CONTRACTOR shall start to perform the Work on the date when the Contract Time commences to run, but no Work shall be done at the site prior to the date on which the Contract Time commences to run.

2.5 Before Starting Construction

Before undertaking each part of the Work, CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. CONTRACTOR shall promptly report in writing to ENGINEER any conflict, error or discrepancy which CONTRACTOR may discover and shall obtain a written interpretation or clarification from ENGINEER before proceeding with any Work affected thereby; however, CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any conflict, error or discrepancy in the Contract Documents, unless CONTRACTOR had actual knowledge thereof or should reasonably have known thereof.

2.6 Submittal of Schedules

Within ten days after the effective date of the Agreement (unless otherwise specified) CONTRACTOR shall submit to ENGINEER for review:

2.6.1 an estimated progress schedule indicating the starting and completion dates of the various stages of the Work;

2.6.2 a preliminary schedule of Shop Drawing submissions; and

2.6.3 a preliminary schedule of values for all of the Work which will include quantities and prices of items aggregating the Contract Price and will subdivide the Work into component parts in sufficient detail to serve as the

basis for progress payments during construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work which will be confirmed in writing by CONTRACTOR at the time of submission.

2.7 Preconstruction Conference

Before CONTRACTOR starts the Work at the proposed site, a conference attended by CONTRACTOR, ENGINEER and other appropriate parties will be held to discuss the following issues: (1) The scheduling of the Work to be completed; (2) The procedures for handling shop drawings and other submittals; (3) The processing of applications for payment; (4) The establishment of an understanding among the involved parties in regard to the proposed project; and (5) The establishment of procedures for effectively implementing the LFUCG's 10% minimum DBE goals.

2.8 Finalizing Schedules

At least ten days before submission of the first Application for Payment a conference attended by CONTRACTOR, ENGINEER and others as appropriate will be held to finalize the schedules submitted in accordance with paragraph 2.6. The finalized progress schedule will be acceptable to ENGINEER as providing orderly progression of the Work to completion within the Contract Time, but such acceptance will neither impose on ENGINEER responsibility for the progress or scheduling of the Work nor relieve CONTRACTOR from full responsibility thereof. The finalized schedule of Shop Drawing submissions will be acceptable to ENGINEER as providing a workable arrangement for processing the submissions. The finalized schedule of values will be acceptable to ENGINEER as to form and substance.

3. CONTRACT DOCUMENTS: INTENT, CONFLICTS, AMENDING AND REUSE

3.1 General

The Contract Documents comprise the entire agreement between OWNER and CONTRACTOR concerning the Work. The Contract Documents are complementary; what is called for by one is as binding as if called for by all. The Contract Documents will be construed in accordance with the law of the place of the Project.

3.2 Intent

It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any Work, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result will be supplied whether or not specifically called for. When words which have a well-known technical or trade meaning are used to describe Work, materials or equipment such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by

implication, shall mean the latest standard specification, manual, code or laws or regulations in effect at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall be effective to change the duties and responsibilities of OWNER, CONTRACTOR or ENGINEER, or any of their consultants, agents or employees from those set forth in the Contract Documents, nor shall it be effective to assign to ENGINEER, or any of ENGINEER'S consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 8.12.3 or 8.12.4. Clarifications and interpretations of the Contract Documents shall be issued by ENGINEER as provided in paragraph 8.4.

3.3 Conflicts

If, during the performance of the Work, CONTRACTOR finds a conflict, error or discrepancy in the Contract Documents, CONTRACTOR shall so report to ENGINEER in writing at once and before proceeding with the Work affected thereby shall obtain a written interpretation or clarification from ENGINEER; however, CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any conflict, error or discrepancy in the Contract Documents unless CONTRACTOR had actual knowledge thereof or should reasonably have known thereof.

In resolving such conflicts, errors and discrepancies, the documents shall be given precedence in the following order:

1. Agreement
2. Field and Change Orders
3. Addenda
4. Special Conditions
5. Instruction to Bidders
6. General Conditions
7. Specifications and Drawings

Figure dimension on drawings shall govern over scale dimensions and detailed Drawings shall govern over general Drawings.

3.4 Amending and Supplementing Contract Documents

The Contract Documents may be amended to provide for additions, deletions and revisions in the Work or to modify the terms and conditions thereof by means of a Change Order or a Field Order. Contract Price and Contract Time may only be changed by a Change Order.

3.5 Reuse of Documents

Neither CONTRACTOR nor any Subcontractor or Supplier or other person or organization performing or furnishing any of the Work under a direct or indirect contract with OWNER shall have or acquire any title to or ownership rights in any of the Drawings, Specifications or other documents (or copies of any thereof) prepared by or bearing the seal of ENGINEER; and they shall not reuse any of them on extensions of the Project or any other project without written consent of OWNER and ENGINEER and specific written verification or adaptation by ENGINEER.

4. AVAILABILITY OF LANDS; PHYSICAL CONDITIONS, REFERENCE POINTS

4.1 Availability of Lands

OWNER shall furnish, as indicated in the Contract Documents, the lands upon which the Work is to be performed, rights-of-way and easements for access thereto, and such other lands which are designated for the use of CONTRACTOR. Easements for permanent structures or permanent changes in existing facilities will be obtained and paid for by OWNER, unless otherwise provided in the Contract Documents. If CONTRACTOR believes that any delay in OWNER'S furnishing these lands, rights-of-way or easements entitles CONTRACTOR to an extension of the Contract Time, CONTRACTOR may make a claim therefor as provided in Article 11. ENGINEER shall determine if the claim is legitimate or not. CONTRACTOR shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.2 Physical Conditions

4.2.1 Explorations and Reports

Reference is made to the Special Conditions for identification of those reports of explorations and tests of subsurface conditions at the site that have been utilized by ENGINEER in preparation of the Contract Documents. CONTRACTOR may rely upon the accuracy of the technical data contained in such reports, but not upon non-technical data, interpretations or opinions contained therein or for the completeness thereof for CONTRACTOR'S purposes. Except as indicated in the immediately preceding sentence and in paragraph 4.2.6, CONTRACTOR shall have full responsibility with respect to subsurface conditions at the site.

4.2.2 Existing Structures

Reference is made to the Special Conditions for identification of those drawings of physical conditions in or relating to existing surface and subsurface structures (except Underground Facilities referred to in paragraph 4.3 which are at or contiguous to the site that have been utilized by ENGINEER in preparation of the Contract Documents. CONTRACTOR may rely upon the accuracy of the technical data contained in such drawings, but not for the completeness thereof for CONTRACTOR'S purposes. Except as indicated in the immediately preceding sentence and in paragraph 4.2.6, CONTRACTOR shall have full responsibility with respect to physical conditions in or relating to such structures.

4.2.3 Report of Differing Conditions

If CONTRACTOR believes that:

4.2.3.1 any technical data on which CONTRACTOR is entitled to rely as provided in paragraphs 4.2.1 and 4.2.2 is inaccurate, or

4.2.3.2 any physical conditions uncovered or revealed at the site differ materially from that indicated, reflected or referred to in the Contract Documents,

CONTRACTOR shall, promptly after becoming aware thereof and before performing any WORK in connection therewith (except in an emergency) notify OWNER and ENGINEER in writing about the inaccuracy or difference.

4.2.4 ENGINEER'S Review

Engineer will promptly review the pertinent conditions, determine the necessity of obtaining additional explorations or tests with respect thereto and advise CONTRACTOR of ENGINEER'S findings and conclusions.

4.2.5 Possible Document Change

If ENGINEER concludes that there is a material error in the Contract Documents or that because of newly discovered conditions a change in the Contract Documents is required, a Change Order will be issued as provided in Article 10 to reflect and document the consequences of the inaccuracy or difference.

4.2.6 Possible Price and Time Adjustments

In each such case, an increase or decrease in the Contract Price or an extension or shortening of the Contract Time, or any combination thereof, will be allowable to the extent that they are attributable to any such inaccuracy or difference.

4.3 Physical Conditions-Underground Facilities

4.3.1 Shown or Indicated

The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the site is based on information and data furnished to OWNER or ENGINEER by the owners of such underground facilities or by others. Unless it is otherwise expressly provided in the Special Conditions:

4.3.1.1 OWNER and ENGINEER shall not be responsible for the accuracy or completeness of any such information or data; and,

4.2.1.2 CONTRACTOR shall have full responsibility for reviewing and checking all such information and data; for locating all underground

facilities shown or indicated in the Contract Documents; for coordination of the Work with the owners of such underground facilities during construction; and for the safety and protection thereof and repairing any damage thereto resulting from the Work, the cost of all of which will be considered as having been included in the Contract Price.

4.3.2 Not Shown or Indicated

If an underground facility is uncovered or revealed at or contiguous to the site which was not shown or indicated in the Contract Documents and which CONTRACTOR could not reasonably have been expected to be aware of, CONTRACTOR shall, promptly after becoming aware thereof and before performing any Work affected thereby (except in an emergency), identify the owner of such Underground Facility and give written notice thereof to that owner and to OWNER and ENGINEER. ENGINEER will promptly review the underground facility to determine the extent to which the Contract Documents should be modified to reflect and document the consequences of the existence of the Underground Facility, and the Contract Documents will be amended or supplemented to the extent necessary. During such time, CONTRACTOR shall be responsible for the safety and protection of such underground facility. CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, to the extent that they are attributable to the existence of any underground facility that was not shown or indicated in the Contract Documents and which CONTRACTOR could not reasonably have been expected to be aware of.

4.4 Reference Points

OWNER shall provide engineering surveys to establish reference points for construction which in ENGINEER'S judgment are necessary to enable CONTRACTOR to proceed with the Work. CONTRACTOR shall be responsible for laying out the Work (unless otherwise specified), shall protect and preserve the established reference points and shall make no changes or relocations without the prior written approval of OWNER. CONTRACTOR shall report to ENGINEER whenever any reference point is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points by a Registered Land Surveyor.

5. CONTRACTOR'S RESPONSIBILITIES

5.1 Supervision

CONTRACTOR shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. CONTRACTOR shall assure that all CONTRACTOR personnel (including subcontractors, etc.) conduct themselves in a courteous and respectful manner toward the ENGINEER and the general public. Failure to comply with this condition of the Contract will result in immediate suspension of the Work. Following a review by the Commissioner of Public Works, the Contract may be

terminated (see GC section 14). CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences and procedures of construction, but CONTRACTOR shall not be responsible for the negligence of others in the design or selection of a specific means, method, technique, sequence or procedure of construction which is indicated in and required by the Contract Documents. CONTRACTOR shall be responsible to see that the finished Work complies accurately with the Contract Documents.

5.2 Superintendence

CONTRACTOR shall keep on the Work at all times during its progress a competent resident superintendent, who shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent will be CONTRACTOR'S representative at the site and shall have authority to act on behalf of CONTRACTOR. All communications given to the superintendent shall be as binding as if given to CONTRACTOR.

5.3 Labor

CONTRACTOR shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. CONTRACTOR shall at all times maintain good discipline and order at the site. Except in connection with the safety or protection of persons or the Work or property at the site or adjacent thereto, and except as otherwise indicated in the Contract Documents, all Work at the site shall be performed during regular working hours, and CONTRACTOR will not permit overtime work or the performance of Work on Saturday, Sunday or any legal holiday without OWNER'S written consent given after prior written notice to ENGINEER.

5.4 Start-Up and Completion of Work

Unless otherwise specified, CONTRACTOR shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the Work.

5.5 Materials and Equipment

All materials and equipment shall be of good quality and new, except as otherwise provided in the Contract Documents. If required by ENGINEER, CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable supplier except as otherwise provided in the Contract Documents; but no provision of any such instructions will be effective to assign to ENGINEER, or any of ENGINEER'S consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the

Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 8.12.3 or 8.12.4.

5.5.1 Not Clearly Specified or Indicated

In all instances where materials specified are obtainable in different sizes, weights, trade grades, qualities or finishes, etc., whose weights, trade grades, qualities or finishes, etc., are not clearly specified or indicated on the Drawings, the CONTRACTOR shall notify the ENGINEER of all such instances at least five (5) days in advance of receiving the proposals. The Engineer will then determine which size, weight, trade grade, quality, finish, etc., is required.

5.5.2 Coordination of Work

The CONTRACTOR shall see that for his own Work and for the work of each subcontractor, proper templates and patterns necessary for the coordination of the various parts of the Work are prepared. The CONTRACTOR shall furnish or require the Subcontractor to furnish such duplicates as will enable the Subcontractors to fit together and execute fully their respective portions of the Work.

5.6 Adjusting Progress Schedule

CONTRACTOR shall submit to ENGINEER for acceptance (to the extent indicated in paragraph 2.8) adjustments in the progress schedule to reflect the impact thereon of new developments; these will conform generally to the progress schedule then in effect and additionally will comply with any provisions of the Contract Documents applicable thereto.

5.7 Substitutes or "Or-Equal" Items

5.7.1 General

Whenever materials or equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function, and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other Suppliers may be accepted by OWNER/ENGINEER if sufficient information is submitted by CONTRACTOR to allow OWNER/ENGINEER to determine that the material or equipment proposed is equivalent or equal to that named. The procedure for review by OWNER/ENGINEER will include the following. Requests for review of substitute items of material and equipment will not be accepted by OWNER/ENGINEER from anyone, other than CONTRACTOR. If CONTRACTOR wishes to furnish or use a substitute item of material or equipment, CONTRACTOR shall make written application to OWNER/ENGINEER for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results

called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application will state that the evaluation and acceptance of the proposed substitute will not prejudice CONTRACTOR'S achievement of completion on time, whether or not acceptance of the substitute for use in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified will be identified in the application and available maintenance, repair and replacement service will be indicated. The application will also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other contractors affected by the resulting change, all of which shall be considered by OWNER/ENGINEER in evaluating the proposed substitute. OWNER/ENGINEER may require CONTRACTOR to furnish at CONTRACTOR'S expense additional data about the proposed substitute.

5.7.2 Substitutes

If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents, CONTRACTOR may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to OWNER/ENGINEER, if CONTRACTOR submits sufficient information to allow OWNER/ENGINEER to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents. The procedure for review by OWNER/ENGINEER will be similar to that provided in paragraph 5.7.1 as applied by OWNER/ENGINEER.

5.7.3 OWNER/ENGINEER'S Approval

OWNER/ENGINEER will be allowed a reasonable time within which to evaluate each proposed substitute. OWNER/ENGINEER will be the sole judge of acceptability, and no substitute will be ordered, installed or utilized without OWNER/ENGINEER'S prior written acceptance which will be evidenced by either a Change Order or an approved Shop Drawing. OWNER may require CONTRACTOR to furnish at CONTRACTOR'S expense a special performance guarantee or other surety with respect to any substitute. OWNER/ENGINEER will record time required by OWNER/ENGINEER and OWNER/ENGINEER'S consultants in evaluating substitutions proposed by CONTRACTOR and in making changes in the Contract Documents occasioned thereby. Whether or not OWNER/ENGINEER accepts a proposed substitute, CONTRACTOR shall reimburse OWNER for the charges of OWNER/ENGINEER and OWNER/ENGINEER'S consultants for evaluating each proposed substitute.

5.8 Subcontractors, Suppliers, and Others

5.8.1 Acceptable to ENGINEER

CONTRACTOR shall not employ any Subcontractor, Supplier or other person or organization (including those acceptable to OWNER and ENGINEER as indicated in paragraph 5.8.2), whether initially or as a substitute, against whom OWNER or ENGINEER may have reasonable objection. CONTRACTOR shall not be required to employ any Subcontractor, Supplier or other person or organization to furnish or perform any of the Work against whom CONTRACTOR has reasonable objection.

5.8.2 Objection After Due Investigation

If the Contract Documents require the identity of certain Subcontractors, Suppliers or other persons or organizations (including those who are to furnish the principal items of materials and equipment) to be submitted to OWNER in advance of the specified date prior to the Effective Date of the Agreement for acceptance by OWNER and ENGINEER and if CONTRACTOR has submitted a list thereof, OWNER'S or ENGINEER'S acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the bidding documents or the Contract Documents) of any such Subcontractor, Supplier or other person or organization so identified may be revoked on the basis of reasonable objection after due investigation, in which case CONTRACTOR shall submit an acceptable substitute. No acceptance by OWNER or ENGINEER of any such Subcontractor, Supplier or other person or organization shall constitute a waiver of any right of OWNER or ENGINEER to reject defective Work.

5.8.3 Contractor Responsible for Acts of Subcontractors

The CONTRACTOR shall perform on the site, and with its own organization, work equivalent to at least fifty (50) percent of the total amount of Work to be performed under the Contract. This percentage may be reduced by a supplemental agreement to this Contract if, during performing the Work, the CONTRACTOR requests a reduction and the Urban County Engineer determines that the reduction would be to the advantage of the Urban County Government.

The CONTRACTOR shall, at the time he submits his proposal for the Contract, notify the OWNER in writing of the names of Subcontractors proposed for the Work. He shall not employ any Subcontractor without the prior written approval of the OWNER.

CONTRACTOR shall be fully responsible to OWNER and ENGINEER for all acts and omissions of the Subcontractors, Suppliers and other persons and organizations performing or furnishing any of the Work under a direct or

indirect contract with CONTRACTOR just as CONTRACTOR is responsible for CONTRACTOR'S own acts and omissions. Nothing in the Contract Documents shall create any contractual relationship between OWNER or ENGINEER and any such Subcontractor, Supplier or other person or organization, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any such Subcontractor, Supplier or other person or organization except as may otherwise be required by Laws and Regulations.

5.8.4 Division of Specifications

The divisions and sections of the Specifications and the identifications of any Drawings shall not control CONTRACTOR in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.

5.8.5 Agreement Between Contractor and Subcontractors

All Work performed for CONTRACTOR by a Subcontractor will be pursuant to an appropriate agreement between CONTRACTOR and the Subcontractor which specifically binds the Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of OWNER and ENGINEER.

5.8.6 Statements and Comments by CONTRACTOR

Neither the CONTRACTOR, his employees, nor his subcontractors shall at any time make any statement or comment as to the project scope, nature, intention, design, or construction method to any third party or parties without the explicit written consent of the OWNER.

Any third party requesting such information shall be referred to the OWNER or his representative.

Should there be any change from the original intent of the project as a result of any statement or comment by the contractor, his employees or subcontractors, contractor shall be held liable for any change in the scope, nature, design, or construction method and shall bear the full cost for the previously mentioned changes.

5.9 Patent Fees and Royalties

CONTRACTOR shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product or device which is the subject of patent rights or copyrights held by others.

5.10 Permits

Unless otherwise provided in the Special conditions, CONTRACTOR shall obtain and pay for all construction permits and licenses. OWNER shall assist CONTRACTOR, when necessary, in obtaining such permits and licenses. CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the Work, which are applicable at the time of opening of Bids, or if there are no Bids on the Effective Date of the Agreement. CONTRACTOR shall pay all charges of utility owners for connections to the Work, and OWNER shall pay all charges of such utility owners for capital costs related thereto such as plant investment fees.

5.11 Laws and Regulations

5.11.1 CONTRACTOR to Comply

CONTRACTOR shall give all notices and comply with all Laws and Regulations applicable to furnishing and performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither OWNER nor ENGINEER shall be responsible for monitoring CONTRACTOR'S compliance with any Laws and Regulations.

5.11.2 Specifications and Drawings at Variance

If CONTRACTOR observes that the Specifications or Drawings are at variance with any Laws or Regulations, CONTRACTOR shall give ENGINEER prompt written notice thereof, and any necessary changes will be authorized by one of the methods indicated in paragraph 3.4. If CONTRACTOR performs any Work knowing or having reason to know that it is contrary to such Laws, or Regulations, and without such notice to ENGINEER, CONTRACTOR shall bear all costs arising therefrom; however, it shall not be CONTRACTOR'S primary responsibility to make certain that the Specifications and Drawings are in accordance with such Laws and Regulations.

Any party, firm or individual submitting a proposal pursuant to invitation must have paid all taxes owed to the Lexington-Fayette Urban County Government at the time the proposal is submitted, and must maintain a "current" status in regard to those taxes throughout the Contract. If applicable, business must be licensed in Fayette County.

5.12 Taxes

CONTRACTOR shall pay all sales, consumer, use and other similar taxes required to be paid by CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work. Any party, firm or individual submitting a proposal pursuant to invitation must have paid all taxes owed to the Lexington-Fayette Urban County Government at the time the proposal is submitted, and must maintain a "current" status in regard to those taxes throughout the Contract. If applicable, business must be licensed in Fayette County.

5.13 Use of Premises

5.13.1 Project Site

CONTRACTOR shall confine construction equipment, the storage of materials and equipment and the operations of workers to the staging areas or work site areas identified in and permitted by the Contract Documents and other land and areas permitted by Laws and Regulations, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any land or areas contiguous thereto, resulting from the performance of the Work. Should any claim be made against OWNER or ENGINEER by any such owner or occupant because of the performance of the Work, CONTRACTOR shall promptly attempt to settle with such other party by agreement or otherwise resolve the claim by arbitration or at law. CONTRACTOR shall, to the fullest extent permitted by Laws and Regulations, indemnify and hold OWNER and ENGINEER harmless from and against all claims, damages, losses and expenses (including, but not limited to, fees of engineers, architects, attorneys and other professionals and court and arbitration costs) arising directly, indirectly or consequentially out of any action, legal or equitable, brought by any such other party against OWNER or ENGINEER to the extent based on a claim arising out of CONTRACTOR'S performance of the Work.

5.13.2 Clean UP

During the progress of the Work, CONTRACTOR shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the Work. At the completion of the Work, CONTRACTOR shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery, and surplus materials, and shall leave the site clean and ready for occupancy by OWNER. CONTRACTOR shall restore to original condition all property not designated for alteration by the Contract Documents.

5.13.1 Loading of Structures

CONTRACTOR shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall CONTRACTOR subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

5.14 Record Drawings

CONTRACTOR shall maintain in a safe place at the site one record copy of all Drawings, Specifications, Addenda, Change Orders, Field Orders and written interpretations and clarifications (issued pursuant to paragraph 9.4) in good order

and annotated to show all changes made during construction. These record documents together with all approved samples and a counterpart of all approved Shop Drawings will be available to ENGINEER for reference. Upon completion of the Work, these record documents, samples and Shop Drawings will be delivered to ENGINEER for OWNER.

5.15 Shop Drawings and Samples

5.15.1 Shop Drawing Submittals

After checking and verifying all field measurements and after complying with applicable procedures specified, CONTRACTOR shall submit to ENGINEER for review and approval in accordance with the accepted schedule of Shop Drawing submissions (see paragraph 2.8), or for other appropriate action if so indicated in the Special Conditions, five copies (unless otherwise specified) of all Shop Drawings, which will bear a stamp or specific written indication that CONTRACTOR has satisfied CONTRACTOR'S responsibilities under the Contract Documents with respect to the review of the submission. All submissions will be identified as ENGINEER may require. The data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials and similar data to enable ENGINEER to review the information as required.

5.15.2 Sample Submittals

CONTRACTOR shall also submit to ENGINEER for review and approval with such promptness as to cause no delay in Work, all samples required by the Contract Documents. All samples will have been checked by and accompanied by a specific written indication that CONTRACTOR has satisfied CONTRACTOR'S responsibilities under the Contract Documents with respect to the review of the submission and will be identified clearly as to material, Supplier, pertinent data such as catalog numbers and the use for which intended.

5.15.3 Review by CONTRACTOR

Before submission of each Shop Drawing or sample CONTRACTOR shall have determined and verified all quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers and similar data with respect thereto and reviewed or coordinated each Shop Drawing or sample with other Shop Drawings and samples and with the requirements of the Work and the Contract Documents.

5.15.4 Notice of Variation

At the time of each submission, CONTRACTOR shall give ENGINEER specific written notice of each variation that the Shop Drawings or samples may have from the requirements of the Contract Documents, and, in

addition, shall cause a specific notation to be made on each Shop Drawing submitted to ENGINEER for review and approval of each such variation.

5.15.5 ENGINEER'S Approval

ENGINEER will review and approve with reasonable promptness Shop Drawings and samples, but ENGINEER'S review and approval will be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents and shall not extend to means, methods, techniques, sequences or procedures of construction (except where a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions. CONTRACTOR shall make corrections required by ENGINEER, and shall return the required number of corrected copies of Shop Drawings and submit, as required, new samples for review and approval. CONTRACTOR shall direct specific attention in writing to revisions other than the corrections called for by ENGINEER on previous submittals.

5.15.6 Responsibility for Errors and Omissions

ENGINEER'S review and approval of Shop Drawings or samples shall not relieve CONTRACTOR from responsibility for any variation from the requirements of the Contract Documents unless CONTRACTOR has in writing called ENGINEER'S attention to each such variation at the time of submission as required by paragraph 5.15.4 and ENGINEER has given written approval of each such variation by a specific written notation thereof incorporated in or accompanying the Shop Drawing or sample approval; nor will any approval by ENGINEER relieve CONTRACTOR from responsibility for errors or omissions in the Shop Drawings or from responsibility for having complied with the provisions of paragraph 5.15.3.

5.15.7 Cost of Related Work

Where a Shop or sample is required by the Specifications, any related Work performed prior to ENGINEER'S review and approval of the pertinent submission will be the sole expense and responsibility of CONTRACTOR.

5.16 Continuing the Work

CONTRACTOR shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with OWNER. No Work shall be delayed or postponed pending resolutions of any disputes or disagreements, except as permitted by paragraph 14.5 or as CONTRACTOR and OWNER may otherwise agree in writing.

5.17 Erosion and Sediment Control

5.17.1 General Environmental Requirements

The CONTRACTOR and Subcontractors performing work on projects on behalf of the OWNER shall comply with all applicable federal, state, and local environmental regulations and all requirements and conditions set forth in "special" permits including but not limited to Corp of Engineers 404 permits, 401 Water Quality Certifications, Stream Crossing and Floodplain Encroachment Permits.

Any fines or penalties resulting from the failure to comply with the terms of the federal, state or local permits or perform necessary corrective action are solely the obligation of the CONTRACTOR.

5.17.2 Stormwater Pollution Prevention

A. The CONTRACTOR shall exercise due care to prevent or minimize any damage to any stream or wetland from pollution by debris, sediment or other material. The operation of equipment and/or materials in a jurisdictional wetland is expressly prohibited. Water that has been used for washing or processing, or that contains oils, sediments or other pollutants shall not be discharged from the job site. Such waters shall be collected and properly disposed of by the CONTRACTOR in accordance with applicable local, state and federal law.

B. The CONTRACTOR is solely responsible for securing all required state and local permits associated with stormwater discharges from the project including, but not necessarily limited to the KY Notice of Intent to Disturb (NOI) for Coverage of Storm Water Discharges Associated with Construction Activities under the KPDES Storm Water General Permit KYR100000 and the LFUCG, Land Disturbance Permit. Permit application preparation and all required documentation are the responsibility of the CONTRACTOR. The CONTRACTOR is solely responsible for maintaining compliance with the stormwater pollution prevention plan or erosion and sediment control plan and ensuring the following:

- a. That the Stormwater Pollution Prevention Plan (SWPPP) or erosion control plan is current and available for review on site;
- b. That any and all stormwater inspection reports required by the permit are conducted by qualified personnel and are available for review onsite; and
- c. That all best management practices (BMPs) are adequately maintained and effective at controlling erosion and preventing sediment from leaving the site.

C. The CONTRACTOR shall provide the necessary equipment and personnel to perform any and all emergency measures that may be required to contain any spillage or leakage and to remove materials, soils

or liquids that become contaminated. The collected spill material shall be properly disposed at the CONTRACTOR's expense.

D. Upon completion of the work and with the concurrence of the OWNER, the CONTRACTOR must file a Notice of Termination (NOT) of Coverage Under the KPDES General Permit for Storm Water Discharges Associated with Construction Activity with the appropriate local and state authorities.

E. Any fines or penalties resulting from the failure to comply with the terms of the state or local stormwater permits or perform necessary corrective action are solely the obligation of the CONTRACTOR.

6. OTHER WORK

6.1 Related Work at Site

OWNER may perform other work related to the Project at the site by OWNER'S own forces, have other work performed by utility owners or let other direct contracts therefor which shall contain General Conditions similar to these. If the fact that such other work is to be performed was not noted in the Contract Documents, written notice thereof will be given to CONTRACTOR prior to starting any such other work; and, if such performance will involve additional expense to CONTRACTOR or requires additional time, a Change Order to the Contract will be negotiated.

6.2 Other Contractors or Utility Owners

CONTRACTOR shall afford each utility owner and other contractor who is a party to such a direct contract (or OWNER, if OWNER is performing the additional work with OWNER'S employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work, and shall properly connect and coordinate the Work with theirs. CONTRACTOR shall do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other work. CONTRACTOR shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of ENGINEER and the others whose work will be affected. The duties and responsibilities of CONTRACTOR under this paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of CONTRACTOR in said direct contracts between OWNER and such utility owners and other contractors.

6.3 Delays Caused by Others

If any part of CONTRACTOR'S Work depends for proper execution or results upon the work of any such other contractor or utility owner (or OWNER), CONTRACTOR shall inspect and promptly report to ENGINEER in writing any delays, defects or deficiencies in such work that render it unavailable or unsuitable for such proper execution and results. CONTRACTOR'S failure so to report will constitute an acceptance of the other work as fit and proper for integration with

CONTRACTOR'S Work except for latent or non-apparent defects and deficiencies in the other work.

6.4 Coordination

If OWNER contracts with others for the performance of other work on the Project at the site, the person or organization who will have authority and responsibility for coordination of the activities among the various prime contractors will be identified in the Special Conditions, and the specific matters to be covered by such authority and responsibility will be itemized, and the extent of such authority and responsibilities will be provided, in the Special Conditions.

7. OWNER'S RESPONSIBILITIES

7.1 Communications

OWNER shall issue all communications to CONTRACTOR through ENGINEER.

7.2 Data and Payments

OWNER shall furnish the data required of OWNER under the Contract Documents promptly after they are due.

7.3 Lands, Easements, and Surveys

OWNER'S duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.1 and 4.4. Paragraph 4.2 refers to OWNER'S identifying and making available to CONTRACTOR copies of reports of explorations and tests of subsurface conditions at the site and in existing structures which have been utilized by ENGINEER in preparing the Drawings and Specifications.

7.4 Change Orders

OWNER is obligated to execute Change Orders as indicated in paragraph 9.4.

7.5 Inspections, Tests and Approvals

OWNER'S responsibility in respect to certain inspections, tests and approvals is set forth in paragraph 13.3.

7.6 Stop or Suspend Work

In connection with OWNER'S right to stop Work or suspend Work, see paragraph 12.4 and 14.1 Paragraph 14.2 deals with OWNER'S rights to terminate services of CONTRACTOR under certain circumstances.

8. ENGINEER'S STATUS DURING CONSTRUCTION

8.1 OWNER'S Representative

ENGINEER will be OWNER'S representative during the construction period. The duties and responsibilities and the limitations of authority of ENGINEER as OWNER'S representative during construction are set forth in the Contract Documents and shall not be extended without written consent of OWNER and ENGINEER.

8.2 Visits to Site

ENGINEER will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed Work and to determine, in general, if the Work is proceeding in accordance with the Contract Documents. ENGINEER will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. ENGINEER'S efforts will be directed toward providing for OWNER a greater degree of confidence that the completed Work will conform to the Contract Documents. On the basis of such visits and on-site observations, ENGINEER will keep OWNER informed of the progress of the Work and will endeavor to guard OWNER against defects and deficiencies in the Work.

8.3 Project Representation

ENGINEER will provide an Inspector to assist ENGINEER in observing the performance of the Work. If OWNER designates another agent to represent OWNER at the site who is not ENGINEER'S agent or employee, the duties, responsibilities and limitations of authority of such other person will be as provided in the Special Conditions.

8.4 Clarifications and Interpretations

ENGINEER will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents (in the form of Drawings or otherwise) as ENGINEER may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents.

8.5 Authorized Variations in Work

ENGINEER may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Time and are consistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order.

8.6 Rejecting Defective Work

ENGINEER will have authority to disapprove or reject Work which ENGINEER believes to be defective, and will also have authority to require special inspection or testing of the Work as provided in paragraph 12.3, whether or not the Work is fabricated, installed or completed.

8.7 Shop Drawings

In connection with ENGINEER'S responsibility for Shop Drawings and samples, see paragraphs 5.15.1 through 5.16 inclusive.

8.8 Change Orders

In connection with ENGINEER'S responsibilities as to Change Orders, see Articles 10, 11 and 12.

8.9 Payments

In connection with ENGINEER'S responsibilities with respect to Applications for Payment, etc., see Article 13.

8.10 Determinations for Unit Prices

ENGINEER will determine the actual quantities and classifications of Unit Price Work performed by CONTRACTOR.

ENGINEER will review with CONTRACTOR ENGINEER'S preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise).

8.11 Decision on Disputes

ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. Claims, disputes and other matters relating to the acceptability of the Work or the interpretation of the requirements of the Contract Documents pertaining to the performance and furnishing of the Work and claims under Articles 10 and 11 in respect of changes in the Contract Price or Contract Time will be referred initially to ENGINEER in writing with a request for a formal decision in accordance with this paragraph, which ENGINEER will render in writing within a reasonable time. Written notice of each such claim, dispute and other matter will be delivered to ENGINEER promptly (but in no event later than thirty days) after the occurrence of the event giving rise thereto, and written supporting data will be submitted to ENGINEER within sixty days after such occurrence unless ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim.

8.12 Limitations on Engineer's Responsibilities

8.12.1 CONTRACTOR, Supplier, or Surety

Neither ENGINEER'S authority to act under this Article 8 or elsewhere in the Contract Documents nor any decision made by ENGINEER in good faith either to exercise or not exercise such authority shall give rise to any duty or

responsibility of ENGINEER to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization performing any of the Work, or to any surety for any of them.

8.12.2 To Evaluate the Work

Whenever in the Contract Documents the terms "as ordered", "as directed", "as required", "as allowed", "as approved" or terms of like effect or import are used, or the adjectives "reasonable", "suitable", "acceptable", "proper", or "satisfactory" or adjectives or like "effect" or "import" are used to describe a requirement, direction, review or judgment of ENGINEER as to the Work, it is intended that such requirement, direction, review or judgment will be solely to evaluate the Work for compliance with the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective shall not be effective to assign ENGINEER any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 8.12.3 or 8.12.4.

8.12.3 CONTRACTOR'S Means, Methods, Etc.

ENGINEER will not be responsible for CONTRACTOR'S means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, and ENGINEER will not be responsible for CONTRACTOR'S failure to perform or furnish the Work in accordance with the Contract Documents.

8.12.4 Acts of Omissions of CONTRACTOR

ENGINEER will not be responsible for the acts or omissions of CONTRACTOR or of any Subcontractor, any Supplier, or of any other person or organization performing or furnishing any of the Work.

9. **CHANGES IN THE WORK**

9.1 **OWNER May Order Change**

Without invalidating the Agreement and without notice to any surety, OWNER may, at any time or from time to time, order additions, deletions or revisions in the Work; these will be authorized by a Change Order. Upon receipt of such notice, CONTRACTOR shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

9.2 **Claims**

Claims for an increase or decrease in the Contract Price or an extension or shortening of the Contract Time that should be allowed as a result of a Change Order will be settled as provided for in Article 10 or Article 11.

9.3 Work Not in Contract Documents

CONTRACTOR shall not be entitled to an increase in the Contract Price or an extension of the Contract Time with respect to any Work performed that is not required by the Contract Documents as amended, modified and supplemented as provided in paragraph 3.4, except in the case of an emergency and except in the case of uncovering Work as provided in paragraph 12.3.4.

9.4 Change Orders

OWNER and CONTRACTOR shall execute appropriate Change Orders covering:

9.4.1 changes in the Work which are ordered by OWNER pursuant to paragraph 9.1, are required because of acceptance of defective Work under paragraph 12.7 or corrective defective Work under paragraph 12.8, or are agreed to by the parties;

9.4.2 changes in the Contract Price or Contract Time which are agreed to by the parties; and

9.4.3 changes in the Contract Price or Contract Time which embody the substance of any written decision rendered by ENGINEER pursuant to paragraph 8.11; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and REGULATIONS, but during any such appeal, CONTRACTOR shall carry on the Work and adhere to the progress schedule as provided in paragraph 5.16.

9.5 Notice of Change

If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Time) is required by the provisions of any Bond to be given to a surety, the giving of any such notice will be CONTRACTOR'S responsibility, and the amount of each applicable Bond will be adjusted accordingly.

10. CHANGE OF CONTRACT PRICE

10.1 Total Compensation

The Contract Price constitutes the total compensation (subject to authorized adjustments) payable to CONTRACTOR for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by CONTRACTOR shall be at his expense without change in the Contract Price.

10.2 Claim for Increase or Decrease in Price

The Contract Price may only be changed by a Change Order. Any claim for an increase or decrease in the Contract Price shall be based on written notice delivered by the CONTRACTOR to the ENGINEER promptly (but in no event later than

thirty days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the amount of the claim with supporting data shall be delivered within sixty days after such occurrence (unless ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by CONTRACTOR'S written statement that the amount claimed covers all known amounts (direct, indirect, and consequential) to which the CONTRACTOR is entitled as a result of the occurrence of said event.

10.3 Value of Work

The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:

10.3.1 Unit Prices

Where the Work involved is covered by unit prices contained in the Contract Documents, by application of unit prices to the quantities of the items involved (subject to the provisions of paragraphs 10.9.1. through 10.9.3, inclusive).

10.3.2 Lump Sum

By mutual acceptance of a lump sum (which may include an allowance for overhead and profit not necessarily in accordance with paragraph 10.6.2.1).

10.3.3 Cost Plus Fee

On the basis of the Cost of the Work (determined as provided in paragraphs 10.4 and 10.5) plus a CONTRACTOR'S fee for overhead and profit (determined as provided in paragraphs 10.6 and 10.7).

10.4 Cost of the Work

The term Cost of the Work means the sum of all costs necessarily incurred and paid by CONTRACTOR in the proper performance of the Work. Except as otherwise may be agreed to in writing by OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project; shall include only the following items; and shall not include any of the costs itemized in paragraph 10.5:

10.4.1 Payroll Costs

Payroll costs for employees in the direct employ of CONTRACTOR in the performance of the Work under schedules of job classifications agreed upon by OWNER and CONTRACTOR. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' or workmen's compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. Such employees shall

include superintendents and foremen at the site. The expenses of performing Work after regular working hours, on Saturday, Sunday or legal holidays, shall be included in the above to the extent authorized by OWNER.

10.4.2 Materials and Equipment Costs

Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to CONTRACTOR unless OWNER deposits funds with CONTRACTOR with which to make payments, in which case the cash discounts shall accrue to OWNER. All trade discounts, rebates and refunds and all returns from sale of surplus materials and equipment shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained.

10.4.3 Subcontractor Costs

Payments made by CONTRACTOR to the Subcontractors for Work performed by Subcontractors. If required by OWNER, CONTRACTOR shall obtain competitive bids from Subcontractors acceptable to CONTRACTOR and shall deliver such bids to OWNER who will then determine, with the advice of ENGINEER, which bids will be accepted. If a subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work Plus a Fee, the Subcontractor's Cost of the Work shall be determined in the same manner as CONTRACTOR'S Cost of the Work. All subcontracts shall be subject to the other provisions of the Contract Documents insofar as applicable.

10.4.4 Special Consultant Costs

Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys and accountants) employed for services specifically related to the Work.

10.4.5 Supplemental Costs

10.4.5.1 The proportion of necessary transportation, travel and subsistence expenses of CONTRACTOR'S employees incurred in discharge of duties connected with the Work.

10.4.5.2 Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost less

market value of such items used but not consumed which remain the property of CONTRACTOR.

10.4.5.3 Rentals of all construction equipment and machinery and the parts thereof whether rented from CONTRACTOR or others in accordance with rental agreements approved by OWNER with the advice of ENGINEER, and the costs of transportation, loading, unloading, installation, dismantling and removal shall be in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the Work.

10.4.5.4 Sales, consumer, use or similar taxes related to the Work, and for which CONTRACTOR is liable, imposed by Laws and Regulations.

10.4.5.5 Deposits lost for causes other than negligence of CONTRACTOR, any Subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

10.4.5.6 Losses and damages (and related expenses), not compensated by insurance or otherwise, to the Work or otherwise sustained by CONTRACTOR in connection with the performance and furnishing of the Work (except losses and damages within the deductible amounts of property insurance established by OWNER), provided they have resulted from causes other than the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. No such losses, damages and expenses shall be included in the Cost of the Work for the purpose of determining CONTRACTOR'S fee. If, however, any such loss or damage requires reconstruction and CONTRACTOR is placed in charge thereof, CONTRACTOR shall be paid a fee proportionate to that stated in paragraph 10.6.2 for services.

10.4.5.7 The cost of utilities, fuel and sanitary facilities at the site.

10.4.5.8 Minor expenses such as telegrams, long distance telephone calls, telephone service at the site,

expressage and similar petty cash items in connection with the Work.

10.4.5.9 Cost of premiums for additional Bonds and insurance required because of changes in the Work and premiums for property insurance coverage within the limits of the deductible amounts established by OWNER.

10.5 Not to Be Included in Cost of the Work

The term Cost of the Work shall not include any of the following:

10.5.1 Costs of Officers and Executives

Payroll costs and other compensation of CONTRACTOR'S officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in CONTRACTOR'S principal or a branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in paragraph 10.4.1 or specifically covered by paragraph 10.4.4 - all of which are to be considered administrative costs covered by the CONTRACTOR'S fee.

10.5.2 Principal Office

Expenses of CONTRACTOR'S principal and branch offices other than CONTRACTOR'S office at the site.

10.5.3 Capital Expense

Any part of CONTRACTOR'S capital expenses, including interest on CONTRACTOR'S capital employed for the Work and charges against CONTRACTOR for delinquent payments.

10.5.4 Bonds and Insurance

Cost of premiums for all Bonds and for all insurance whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except for the cost of premiums covered by subparagraph 10.4.5.9 above).

10.5.5 Costs Due to Negligence

Costs due to the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied and making good any damage to property.

10.5.6 Other Costs

Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraph 10.4.

10.6 Contractor's Fee

The CONTRACTOR'S Fee allowed to CONTRACTOR for overhead and profit shall be determined as follows:

10.6.1 a mutually acceptable fixed fee; or if none can be agreed upon,

10.6.2 a fee based on the following percentages of the various portions of the Cost of the Work:

10.6.2.1 for costs incurred under paragraphs 10.4.1 and 10.4.2, the CONTRACTOR'S fee shall be fifteen percent;

10.6.2.2 for costs incurred under paragraph 10.4.3, the CONTRACTOR'S fee shall be five percent; and if a subcontract is on the basis of Cost of the Work Plus a fee, the maximum allowable to CONTRACTOR on account of overhead and profit of all Subcontractors shall be fifteen percent;

10.6.2.3 no fee shall be payable on the basis of costs itemized under paragraphs 10.4.4, 10.4.5 and 10.5;

10.6.2.4 the amount of credit to be allowed by CONTRACTOR to OWNER for any such change which results in a net decrease in cost will be the amount of the actual net decrease plus a deduction in CONTRACTOR'S Fee by an amount equal to ten percent of the net decrease; and

10.6.2.5 when both additions and credits are involved in any one change, the adjustment in CONTRACTOR'S fee shall be computed on the basis of the net change in accordance with paragraphs 10.6.2.1 through 10.6.2.4, inclusive.

10.7 Itemized Cost Breakdown

Whenever the cost of any Work is to be determined pursuant to paragraph 10.4 or 10.5, CONTRACTOR will submit in form acceptable to ENGINEER an itemized cost breakdown together with supporting data.

10.8 Cash Allowances

It is understood that CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be done by such Subcontractors or Suppliers and for such sums within the limit of the allowances as may be acceptable to ENGINEER, CONTRACTOR agrees that:

10.8.1 Materials and Equipment

The allowances include the cost to CONTRACTOR (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the site, and all applicable taxes; and

10.8.2 Other Costs

CONTRACTOR'S costs for unloading and handling on the site, labor, installation costs, overhead, profit and other expenses contemplated for the allowances have been included in the Contract Price and not in the allowances. No demand for additional payment on account of any thereof will be valid.

10.8.3 Change Order

Prior to final payment, an appropriate Change Order will be issued as recommended by ENGINEER to reflect actual amounts due CONTRACTOR on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

10.9 Unit Price Work

10.9.1 General

Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the established unit prices for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by CONTRACTOR will be made by ENGINEER in accordance with Paragraph 8.10.

10.9.2 Overhead and Profit

Each unit price will be deemed to include an amount considered by CONTRACTOR to be adequate to cover CONTRACTOR'S overhead and profit for each separately identified item.

10.9.3 Claim for Increase in Unit Price

Where the quantity of any item of Unit Price Work performed by CONTRACTOR differs materially and significantly from the estimated quantity of such item indicated in the Agreement and there is no corresponding adjustment with respect to any other item of Work and if CONTRACTOR believes that CONTRACTOR has incurred additional expense as a result thereof, CONTRACTOR may make a claim for an increase in the Contract Price in accordance with Article 10.

11. CHANGE OF CONTRACT TIME

11.1 Change Order

The Contract Time may only be changed by a Change Order. Any claim for an extension or shortening of the Contract Time shall be based on written notice delivered to ENGINEER promptly (but in no event later than thirty days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the extent of the claim with supporting data shall be delivered within sixty days after such occurrence (unless ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by the claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant has reason to believe it is entitled as a result of the occurrence of said event. All claims for adjustment in the Contract Time shall be determined by ENGINEER in accordance with paragraph 8.11. No claim for an adjustment in the Contract Time will be valid if not submitted in accordance with the requirements of this paragraph 11.1.

11.2 Justification for Time Extensions

The Contract Time will be extended in an amount equal to time lost due to delays beyond the control of CONTRACTOR if a claim is made therefore as provided in paragraph 11.1. Such delays shall include, but not be limited to, acts or neglect by OWNER or others performing additional work as contemplated by Article 6, or to fires, floods, labor disputes, epidemics, abnormal weather conditions or acts of God.

11.3 Time Limits

All time limits stated in the Contract Documents are of the essence of the Agreement. The provisions of this Article 11 shall not exclude recovery for damages (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court costs) for delay by either party.

12. WARRANTY AND GUARANTEE; TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

12.1 Warranty and Guarantee

CONTRACTOR warrants and guarantees to OWNER and ENGINEER that all Work will be in accordance with the Contract Documents and will not be defective. All defective Work, whether or not in place, may be rejected, corrected or accepted as provided in this Article 12.

12.2 Access to Work

ENGINEER and ENGINEER'S representatives, other representatives of OWNER, testing agencies and governmental agencies with jurisdictional interests will have access to the Work at reasonable times for their observation, inspecting and testing. CONTRACTOR shall provide proper and safe conditions for such access.

12.3 Tests and Inspections

12.3.1 Timely Notice

CONTRACTOR shall give ENGINEER timely notice of readiness of the Work for all required inspections, tests or approvals.

12.3.2 Requirements and Responsibilities

The ENGINEER may require such inspection and testing during the course of the Work as he/she deems necessary to ascertain and assure the integrity and acceptable quality of the materials incorporated and the work performed. Inspection presence may be either full-time or intermittent, and neither the presence nor absence at any time of the ENGINEER or the INSPECTOR shall relieve the CONTRACTOR of sole responsibility for the acceptability and integrity of the Work or any part thereof.

The costs of sampling, testing, and inspection on-site to ascertain acceptability of the Work and materials will be borne by the OWNER except as otherwise provided. The OWNER will select a testing laboratory to perform such sampling and testing. Sampling and/or testing required by the CONTRACTOR or necessitated by failure of Work or materials to meet the above acceptability test shall be at the expense of the CONTRACTOR.

Inspection services may be performed by the employees of the OWNER or by others selected or designated by the OWNER or the ENGINEER.

Sampling and/or testing required for manufacturing quality and/or process control, for certification that raw mineral materials or manufactured products are the quality specified in the contract, or to assure the acceptability for incorporation into the Work shall be borne by the CONTRACTOR or the material supplier.

Cost for inspection, sampling, testing, and approvals required by the laws or regulations of any public body having competent jurisdiction shall be borne by the CONTRACTOR or the material supplier.

Sampling and testing will be in accord with pertinent codes and regulations and with appropriate standards of the American Society of Testing Materials or other specified standards.

12.3.3 On-Site Construction Test and Other Testing

All inspections, tests or approvals other than those required by Laws or Regulations of any public body having jurisdiction shall be performed by organizations acceptable to OWNER and CONTRACTOR (or by ENGINEER if so specified).

12.3.4 Covered Work

If any Work (including the work of others) that is to be inspected, tested or approved is covered without written concurrence of ENGINEER, it must, if requested by ENGINEER, be uncovered for observation. Such uncovering shall be at CONTRACTOR'S expense unless CONTRACTOR has given ENGINEER timely notice of CONTRACTOR'S intention to cover the same and ENGINEER has not acted with reasonable promptness in response to such notice.

12.3.5 CONTRACTOR'S Obligation

Neither observations by ENGINEER nor inspections, tests or approvals by others shall relieve CONTRACTOR from CONTRACTOR'S obligations to perform the Work in accordance with the Contract Documents.

12.4 OWNER May Stop the Work

If the Work is defective, or CONTRACTOR fails to supply sufficient skilled workers or suitable materials or equipment, or fails to furnish or perform the Work in such a way that the completed Work will conform to the Contract Documents, OWNER may order CONTRACTOR to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of OWNER to stop the Work shall not give rise to any duty on the part of OWNER to exercise this right for the benefit of CONTRACTOR or any other party.

12.5 Correction or Removal of Defective Work

If required by ENGINEER, CONTRACTOR shall promptly, as directed, either correct all defective Work, whether or not fabricated, installed or completed, or, if the Work has been rejected by ENGINEER, remove it from the site and replace it with non-defective Work. CONTRACTOR shall bear all direct, indirect and consequential costs of such correction or removal (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) made necessary thereby.

12.6 One Year Correction Period

If within one year after the date of Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any Work is found to be defective, CONTRACTOR shall promptly, without cost to OWNER and in accordance with OWNER'S written instructions, either correct such defective Work, or, if it has been rejected by OWNER, remove it from the site and replace it with non-defective Work. If CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, OWNER may have the defective Work corrected or the rejected Work removed and replaced, and all direct, indirect and consequential costs of such removal and replacement (including but not limited to fees and charges of engineers, architects, attorneys and

other professionals) will be paid by CONTRACTOR. In special circumstances where a particular item of equipment is placed in continuous service before Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications or by Change Order.

12.7 Acceptance of Defective Work

If, instead of requiring correction or removal and replacement of defective Work, OWNER prefers to accept it, OWNER may do so. CONTRACTOR shall bear all direct, indirect and consequential costs attributable to OWNER'S evaluation of and determination to accept such defective Work (such costs to be approved by ENGINEER as to reasonableness and to include but not be limited to fees and charges of engineers, architects, attorneys and other professionals).

12.8 OWNER May Correct Defective Work

If CONTRACTOR fails within a reasonable time after written notice of ENGINEER to proceed to correct and to correct defective Work or to remove and replace rejected Work as required by ENGINEER in accordance with paragraph 12.5, or if CONTRACTOR fails to perform the Work in accordance with the Contract Documents, or if CONTRACTOR fails to comply with any other provision of the Contract Documents, OWNER may, after seven days' written notice to CONTRACTOR, correct and remedy any such deficiency. In exercising the rights and remedies under this paragraph OWNER shall proceed expeditiously. To the extent necessary to complete corrective and remedial action, OWNER may exclude CONTRACTOR from all or part of the site, take possession of all or part of the Work, and suspend CONTRACTOR'S services related thereto, take possession of CONTRACTOR'S tools, appliances, construction equipment and machinery at the site and incorporate in the Work all materials and equipment stored at the site or for which OWNER has paid CONTRACTOR but which are stored elsewhere. CONTRACTOR shall allow OWNER, OWNER'S representatives, agents and employees such access to the site as may be necessary to enable OWNER to exercise the rights and remedies under this paragraph. All direct, indirect and consequential costs of OWNER in exercising such rights and remedies will be charged against CONTRACTOR in an amount approved as to reasonableness by ENGINEER, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price. Such direct, indirect and consequential costs will include but not be limited to fees and charges of engineers, architects, attorneys and other professionals, all court costs and all costs of repair and replacement of work of others destroyed or damaged by correction, removal or replacement of CONTRACTOR'S defective Work. CONTRACTOR shall not be allowed an extension of the Contract Time because of any delay in performance of the Work attributable to the exercise by OWNER of OWNER'S rights and remedies hereunder.

13. PAYMENTS TO CONTRACTOR AND COMPLETION

13.1 Schedule of Values

The schedule of values established as provided in paragraph 2.8 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to ENGINEER. Progress payments on account of Unit Price Work will be based on the number of units completed.

13.2 Application for Progress Payment

At least ten days before each progress payment is scheduled (but not more often than once a month), CONTRACTOR shall submit to ENGINEER for review an Application for Payment filled out and signed by CONTRACTOR covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice or other documentation warranting that OWNER has received the materials and equipment free and clear of all liens, charges, security interests and encumbrances (which are hereinafter in these General Conditions referred to as "Liens") and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect OWNER'S interest therein, all of which will be satisfactory to OWNER. OWNER shall, within thirty (30) calendar days of presentation to him of an approved Application for Payment, pay CONTRACTOR the amount approved by ENGINEER. Monthly progress payments shall be ninety (90) percent of the sum obtained by applying the respective bid unit prices to the approved estimated quantities of work completed by the Contractor during the preceding month. The remaining ten (10) percent will be held by the Owner, as retainage. Reductions to the percent of retainage will occur in accordance with the state statues. At such time as the Engineer deems appropriate - based on the quality of work performed, progress of cleanup, and other pertinent factors - the rate of retainage, or the total amount retained, may be reduced below the statutory requirement; although, any further reduction in retainage is made solely at the Engineer's discretion. All remaining retainage held will be included in the final payment to the Contractor.

13.3 CONTRACTOR'S Warranty of Title

CONTRACTOR warrants and guarantees that title to all Work, materials and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to OWNER no later than the time of payment free and clear of all Liens.

13.4 Review of Applications for Progress Payment

13.4.1 Submission of Application for Payment

ENGINEER will, after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to OWNER, or return the Application to CONTRACTOR indicating in writing ENGINEER'S reasons for refusing to recommend payment. In the latter case, CONTRACTOR may make the necessary corrections and resubmit the Application.

13.4.2 ENGINEER'S Recommendation

ENGINEER may refuse to recommend the whole or any part of any payment, if, in ENGINEER'S opinion, it would be incorrect to make such representations to OWNER. ENGINEER may also refuse to recommend any such payment, or, because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify any such payment previously recommended, to such extent as may be necessary in ENGINEER'S opinion to protect OWNER from loss because:

13.4.2.1 the Work is defective, or completed Work has been damaged requiring correction or replacement;

13.4.2.2 the Contract Price has been reduced by Written Amendment or Change Order;

13.4.2.3 OWNER has been required to correct defective Work or complete Work in accordance with paragraph 12.8; or

13.4.2.4 of ENGINEER'S actual knowledge of the occurrence of any of the events enumerated in paragraphs 14.2.1 through 14.2.9 inclusive.

13.5 Partial Utilization

OWNER at any time may request CONTRACTOR in writing to permit OWNER to use any such part of the Work which OWNER believes to be ready for its intended use and has been completed. If CONTRACTOR agrees, CONTRACTOR will certify to OWNER that said part of the Work is complete and request that a Certificate of Completion be issued for that part of the Work.

13.6 Final Inspection

Upon written notice from CONTRACTOR that the entire Work or an agreed portion thereof is complete, ENGINEER will make a final inspection with CONTRACTOR and will notify CONTRACTOR in writing of all particulars in which this inspection reveals that the Work is incomplete or defective. CONTRACTOR shall immediately take such measures as are necessary to remedy such deficiencies.

13.7 Final Application for Payment

After CONTRACTOR has completed all such corrections to the satisfaction of ENGINEER and delivered all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, marked-up record documents (as provided in paragraph 5.14) and other documents - all as required by the Contract Documents, and after ENGINEER has indicated that the Work is acceptable (subject to the provisions of paragraph 13.10), CONTRACTOR may make application for final payment following the procedure for progress payments. The final Application for Payment shall be accompanied by all documentation called for in the Contract Documents, together with complete and legally effective releases or waivers (satisfactory to OWNER) of all Liens arising out of or filed in connection with the Work. In lieu thereof and as approved by OWNER, CONTRACTOR may furnish receipts or releases in full; an affidavit of CONTRACTOR that the releases and receipts include all labor, services, material and equipment for which a Lien could be filed, and that all payrolls, material and equipment bills, and other indebtedness connected with the Work for which OWNER or OWNER'S property might in any way be responsible, have been paid or otherwise satisfied; and consent of the surety, if any, to final payment. If any Subcontractor or Supplier fails to furnish a release or receipt in full, CONTRACTOR may furnish a Bond or other collateral satisfactory to OWNER to indemnify OWNER against any Lien.

13.8 Final Payment and Acceptance

13.8.1 ENGINEER'S Approval

If, on the basis of ENGINEER'S observation of the Work during construction and final inspection, and ENGINEER'S review of the final Application for Payment and accompanying documentation - all as required by the Contract Documents, ENGINEER is satisfied that the Work has been completed and CONTRACTOR'S other obligations under the Contract Documents have been fulfilled, ENGINEER will, after receipt of the final Application for Payment, indicate in writing ENGINEER'S recommendation of payment and present the Application to OWNER for payment. Thereupon ENGINEER will give written notice to OWNER and CONTRACTOR that the Work is acceptable, subject to the provisions of paragraph 13.10. Otherwise, ENGINEER will return the Application to CONTRACTOR, indicating in writing the reasons for refusing to recommend final payment, in which case CONTRACTOR shall make the necessary corrections and resubmit the Application.

13.8.2 Delay in Completion of Work

If, through no fault of CONTRACTOR, final completion of the Work is significantly delayed, OWNER shall, upon receipt of CONTRACTOR'S final Application for Payment and recommendation of ENGINEER, and without terminating the Agreement, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by OWNER for Work not fully completed or corrected is

less than the retainage stipulated in the Agreement, and if Bonds have been furnished as required in paragraph 10 of Part II, Information for Bidders, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by CONTRACTOR to ENGINEER with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

13.9 CONTRACTOR'S Continuing Obligation

CONTRACTOR'S obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. Neither recommendation of any progress or final payment by ENGINEER, nor the issuance of a certificate of Completion, nor any payment by OWNER to CONTRACTOR under the Contract Documents, nor any use or occupancy of the Work or any part thereof by OWNER, nor any act of acceptance by OWNER nor any failure to do so, nor any review and approval of a Shop Drawing or sample submission, nor any correction of defective Work by OWNER will constitute an acceptance of Work not in accordance with the Contract Documents or a release of CONTRACTOR'S obligation to perform the Work in accordance with the Contract Documents (except as provided in paragraph 13.10).

13.10 Waiver of Claims

The making and acceptance of final payment will constitute:

13.10.1 a waiver of all claims by OWNER against CONTRACTOR, except claims arising from unsettled Liens, from defective Work appearing after final inspection or from failure to comply with the Contract Documents or the terms of any special guarantees specified therein; however, it will not constitute a waiver by OWNER of any rights in respect of CONTRACTOR'S continuing obligations under the Contract Documents; and

13.10.2 a waiver of all claims by CONTRACTOR against OWNER other than those previously made in writing and still unsettled.

14. SUSPENSION OF WORK AND TERMINATION

14.1 OWNER May Suspend Work

OWNER may, at any time and without cause, suspend the Work or any portion thereof for a period of not more than ninety days by notice in writing to CONTRACTOR and ENGINEER which will fix the date on which Work will be resumed. CONTRACTOR shall resume the Work on the date so fixed. CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if CONTRACTOR makes an approved claim therefor as provided in Articles 10 and 11.

14.2 OWNER May Terminate

The OWNER may terminate the Work upon the occurrence of any one or more of the following events:

14.2.1 if CONTRACTOR commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code), as now or hereafter in effect, or if CONTRACTOR takes any equivalent or similar action by filing a petition or otherwise under any other federal or state law in effect at such time relating to the bankruptcy or insolvency;

14.2.2 if a petition is filed against CONTRACTOR under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against CONTRACTOR under any other federal or state law in effect at the time relating to bankruptcy or insolvency;

14.2.3 if CONTRACTOR makes a general assignment for the benefit of creditors;

14.2.4 if a trustee, receiver, custodian or agent of CONTRACTOR is appointed under applicable law or under contract, whose appointment or authority to take charge of property of CONTRACTOR is for the purpose of enforcing a Lien against such property or for the purpose of general administration of such property for the benefit of CONTRACTOR'S creditors;

14.2.5 if CONTRACTOR admits in writing an inability to pay its debts generally as they become due;

14.2.6 if CONTRACTOR persistently fails to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 2.8 as revised from time to time);

14.2.7 if CONTRACTOR disregards Laws or Regulations of any public body having jurisdiction;

14.2.8 if CONTRACTOR disregards the authority of ENGINEER, or

14.2.9 if CONTRACTOR otherwise violates in any substantial way any provisions of the Contract Documents;

OWNER may, after giving CONTRACTOR (and the surety) seven days' written notice and to the extent permitted by Laws and Regulations, terminate the services of CONTRACTOR, exclude CONTRACTOR from

the site and take possession of the Work and of all CONTRACTOR'S tools, appliances, construction equipment and machinery at the site and use the same to the full extent they could be used by CONTRACTOR (without liability to CONTRACTOR for trespass or conversion), incorporate in the Work all materials and equipment stored at the site or for which OWNER has paid CONTRACTOR but which are stored elsewhere, and finish the Work as OWNER may deem expedient. In such case CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds the direct, indirect and consequential costs of completing the Work (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court and arbitration costs) such excess will be paid to CONTRACTOR. If such costs exceed such unpaid balance, CONTRACTOR shall pay the difference to OWNER. Such costs incurred by OWNER will be approved as to reasonableness by ENGINEER and incorporated in a Change Order, but when exercising any rights or remedies under this paragraph OWNER shall not be required to obtain the lowest price for the Work performed.

14.2.10 If safety violations are observed and brought to the Contractors attention and Contractor fails to take immediate corrective measures any repeat of similar safety violations, Owner will order an immediate termination of contract. Note: it is the Contractor's responsibility to know proper safety measures as they pertain to construction and OSHA.

14.2.11 This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.

14.2.12 This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.

14.3 CONTRACTOR'S Services Terminated

Where CONTRACTOR'S services have been so terminated by OWNER, the termination will not affect any rights or remedies of OWNER against CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys due CONTRACTOR by OWNER will not release CONTRACTOR from liability.

14.4 Payment After Termination

Upon seven days' written notice to CONTRACTOR, OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the Work and terminate the Agreement. In such case, CONTRACTOR shall be paid for all Work executed and any expense sustained plus reasonable termination expenses, which will include, but not be limited to, direct, indirect and consequential costs (including,

but not limited to, fees and charges of engineers, architects, attorneys and other professionals and court and arbitration costs).

14.5 CONTRACTOR May Stop Work or Terminate

If, through no act or fault of CONTRACTOR, the Work is suspended for a period of more than ninety days by OWNER or under an order of court or other public authority, or ENGINEER fails to act on any Application for Payment within sixty days after it is submitted, or OWNER fails for sixty days to pay CONTRACTOR any sum finally determined to be due, then CONTRACTOR may, upon seven days' written notice to OWNER and ENGINEER, terminate the Agreement and recover from OWNER payment for all Work executed and any expense sustained plus reasonable termination expenses. In addition and in lieu of terminating the Agreement, if ENGINEER has failed to act on an Application for Payment or OWNER has failed to make any payment as aforesaid, CONTRACTOR may upon seven days' written notice to OWNER and ENGINEER stop the Work until payment of all amounts then due. The provisions of this paragraph shall not relieve CONTRACTOR of the obligations under paragraph 5.16 to carry on the Work in accordance with the progress schedule and without delay during disputes and disagreements with OWNER.

15. MISCELLANEOUS

15.1 Claims for Injury or Damage

Should OWNER or CONTRACTOR suffer injury or damage to person or property because of any error, omission or act of the other party or of any of the other party's employees or agents or others for whose acts the other party is legally liable, claim will be made in writing to the other party within a reasonable time of the first observance of such injury or damage. The provisions of this paragraph 15.1 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitations or repose.

15.2 Non-Discrimination in Employment

The CONTRACTOR shall comply with the following requirements prohibiting discrimination:

15.2.1 That no person (as defined in KRS 344.010) shall bid on Lexington-Fayette Urban County Government construction projects, or bid to furnish materials or supplies to the Lexington-Fayette Urban County Government, if, within six months prior to the time of opening of bids, said person shall have been found, by declaratory judgment action in Fayette Circuit Court, to be presently engaging in an unlawful practice, as hereinafter defined. Such declaratory judgment action may be brought by an aggrieved individual or upon an allegation that an effort at conciliation pursuant to KRS 344.200 has been attempted and failed, by the Lexington-Fayette County Human Rights Commission.

15.2.2 That it is an unlawful practice for an employer:

15.2.2.1 to fail or refuse to hire, or to discharge any individual or otherwise to discriminate against an individual, with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, sex, age, or national origin; or

15.2.2.2 to limit, segregate or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee because of such individual's sex, race, color, religion, age, or national origin.

15.2.3 That it is an unlawful practice for an employer, labor organization, or joint-labor management committee controlling apprenticeship or other training or retraining, including on-the-job training programs to discriminate against an individual because of his race, color, religion, sex, age, or national origin in admission to, or employment in, any program established to provide apprenticeship or other training.

15.2.4 That a copy of this Ordinance shall be furnished all suppliers and made a part of all bid specifications.

15.2.5 This Ordinance shall take effect after it is signed, published and recorded, as required by law.

15.3 Temporary Street Closing or Blockage

The CONTRACTOR will notify the ENGINEER at least 72 hours prior to making any temporary street closing or blockage. This will permit orderly notification to all concerned public agencies. Specific details and restrictions on street closure or blockage are contained in the Special Conditions.

15.4 Percentage of Work Performed by prime CONTRACTOR

The CONTRACTOR shall perform on site, and with its own organization, Work equivalent to at least fifty (50%) percent of the total amount of Work to be performed under the Contract. This percentage may be reduced by a supplemental agreement to this Contract if, during performing the Work, the CONTRACTOR requests a reduction and the ENGINEER determines that the reduction would be to the advantage of the OWNER.

15.5 Clean-up

Cleanup shall progress, to the greatest degree practicable, throughout the course of the Work. The Work will not be considered as completed, and final payment will not be made, until the right-of-way and all ground occupied or affected by the Contractor in connection with the Work has been cleared of all rubbish, equipment,

excess materials, temporary structures, and weeds. Rubbish and all waste materials of whatever nature shall be disposed of, off of the project site, in an acceptable manner. All property, both public and private, which has been damaged in the prosecution of the Work, shall be restored in an acceptable manner. All areas shall be draining, and all drainage ways shall be left unobstructed, and in such a condition that drift will not collect or scour be induced.

15.6 General

The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon CONTRACTOR by paragraphs 12.1, 12.3.5, 13.3, and 15.2 and all of the rights and remedies available to OWNER and ENGINEER thereunder, are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right and remedy to which they apply. All representations, warranties and guarantees made in the Contract Documents will survive final payment and termination or completion of the Agreement.

15.7 Debris Disposal

For all LFUCG projects any trash, construction demolition debris, yard waste, dirt or debris of any kind that is removed from the project site must be disposed of in accordance with local, state, and federal regulations. The disposal site or facility must be approved in advance by the LFUCG and disposal documentation is required. The Contractor will be responsible for payment of any fines associated with improper disposal of material removed from the project site.

END OF SECTION

PART V
SPECIAL CONDITIONS
TABLE OF CONTENTS

1. BLASTING.....	2
2. CONTRACTORS' PERFORMANCE.....	2
3. ASBESTOS CONCRETE PIPE PROVISIONS	2
4. FAILURE TO COMPLETE WORK ON TIME	2
5. KY DIVISION OF WATER/EPA PERMITS	2
6. PAYMENT FOR COST OF PERFORMANCE AND PAYMENT BONDS ON CAPITAL PROJECTS	3
7. REQUIRED RISK MANAGEMENT PROVISIONS	3

1. BLASTING

Blasting shall not be allowed under this Contract.

2. CONTRACTORS' PERFORMANCE

If the CONTRACTOR refuses to perform on any two (2) consecutive projects or on any three (3) total projects, the CONTRACTOR may be removed from the list of CONTRACTORS considered for unit price contracts. Furthermore, the CONTRACTOR may be subsequently jeopardizing awarding of projects in the future.

3. ASBESTOS CONCRETE PIPE PROVISIONS

The CONTRACTOR shall take precautions when working near existing asbestos concrete water mains. Work near these facilities shall be coordinated with Kentucky American Water Company and any disturbance of asbestos concrete material shall be in accordance with federal, state and local requirements.

4. FAILURE TO COMPLETE WORK ON TIME

Should the Contractor fail or refuse to complete the work within the time specified in his Proposal and/or Contract (or extension of time granted by the OWNER), the Contractor shall pay liquidated damages in an amount set out in said Proposal and/or Contract. The amount of liquidated damages shall in no event be considered as a penalty, nor other than an amount agreed upon by the Contractor and the OWNER for damages, losses, additional engineering, additional resident representation and other costs that will be sustained by the OWNER, if the Contractor fails to complete the work within the specified time. Liquidated damages will be applied on a rate per day for each and every calendar day (Sundays and holidays included) beyond the Contract expiration date stipulated in the Contract Documents, considering all time extensions granted.

5. KY DIVISION OF WATER/EPA PERMITS

Contractor shall prepare and file the Notice of Intent, the Notice of Termination, and prepare and maintain the BMP (Best Management Practices) and SWPP (Storm Water Pollution Prevention) Plans. Payment shall be as described in the Technical Specifications, and per the *Table of Incremental Costs for Mobilization and Additional Services*, provided in Part III, *Form of Proposal*, of this Contract Document (immediately following the Bid Schedule).

6. PAYMENT FOR COST OF PERFORMANCE AND PAYMENT BONDS ON CAPITAL PROJECTS

Contrary to Article 10.5.4 of the General Conditions, direct payment for the Contractor's cost of Performance and Payment Bonds will be permitted.

Direct cost of required Performance and Payment Bonds has been included as a line item in the Form of Proposal, to allow payment for this cost prior to completion of the project if the contractor so chooses. If no figure is supplied for this line item, no specific payment for bonding costs will be made. The total amount of bid is to include the cost of bonding, whether this cost is specifically shown by the bidder on the line item in the Form of Proposal, or whether it is indirectly included elsewhere within the bidder's unit prices.

When the applicable amount is listed in the Form of Proposal, payment for the costs of Performance and Payment Bonds may generally be requested after the work is 20% complete. The contractor will furnish from his bonding agent a receipt verifying the cost of the bonds and a letter stating that the bonds are in effect and in good standing. Payment will be made for the actual cost of the bonds or the amount stated in the Form of Proposal, whichever is less.

For projects with less than 90 day contract time or a total bid price less than \$100,000, no early or separate repayment of bonding costs will be considered. In those cases, if bonding costs are listed as a bid item, bond payment will be combined with final release of all retainage.

7. REQUIRED RISK MANAGEMENT PROVISIONS

7.1 GENERAL

The CONTRACTOR understands and agrees that the Risk Management Provisions of this Contract define the responsibilities of the CONTRACTOR to the OWNER.

As used in these Risk Management Provisions, the terms "CONTRACTOR" and "OWNER" shall be defined as follows:

- a. CONTRACTOR means the contractor and its employees, agents, servants, owners, principals, licensees, assigns and subcontractors of any tier.
- b. OWNER means the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, Boards, consultants, assigns, volunteers and successors in interest.

7.2 INDEMNIFICATION AND HOLD HARMLESS PROVISION

- (1) It is understood and agreed by the parties that Contractor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Contractor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "CONTRACTOR") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- (2) CONTRACTOR shall indemnify, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by CONTRACTOR's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the CONTRACTOR; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, CONTRACTOR shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.
- (5) LFUCG is a political subdivision of the Commonwealth of Kentucky. CONTRACTOR acknowledges and agrees that LFUCG is unable to provide indemnity or otherwise save, hold harmless, or defend the CONTRACTOR in any manner.

7.3 FINANCIAL RESPONSIBILITY

BIDDER/CONTRACTOR understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions.

7.4 INSURANCE REQUIREMENTS

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

Required Insurance Coverage

BIDDER/CONTRACTOR shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect LFUCG against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by CONTRACTOR. The cost of such insurance shall be included in any bid:

<u>Coverage</u>	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Commercial Automobile Liability (Insurance Services Office Form CA 0001)	combined single, \$1 million per occurrence
Worker's Compensation	Statutory
Employer's Liability	\$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky (DOI). LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI

approved forms.

- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include a Products and Completed Operations endorsement or Premises and Operations Liability and a Products Liability endorsement unless it is deemed not to apply by LFUCG.
- d. The General Liability Policy shall include a Pollution Liability endorsement unless it is deemed not to apply by LFUCG.
- e. The General Liability Policy shall include an XCU endorsement unless it is deemed not to apply by LFUCG.
- f. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- g. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

Renewals

After insurance has been approved by LFUCG, evidence of renewal of an expiring policy must be submitted to LFUCG, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these Insurance Requirements.

Deductibles and Self-Insured Programs

IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE. Self-insurance programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of evidence of BIDDER/CONTRACTOR's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If

BIDDER/CONTRACTOR satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, BIDDER/CONTRACTOR agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- b. Any records of any self-insured trust fund plan or policy and related accounting statements.
- c. Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

Safety and Loss Control

CONTRACTOR shall comply with all applicable federal, state, and local safety standards related to the performance of its works or services under this Agreement and take necessary action to protect the life, health and safety and property of all of its personnel on the job site, the public, and LFUCG.

Verification of Coverage

BIDDER/CONTRACTOR agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

Right to Review, Audit and Inspect

CONTRACTOR understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

7.5 DEFAULT

BIDDER/CONTRACTOR understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that **LFUCG** may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging **BIDDER/CONTRACTOR** for any such insurance premiums purchased, or suspending or terminating the work.

PART VI
CONTRACT AGREEMENT

INDEX

1. SCOPE OF WORK
2. TIME OF COMPLETION
3. ISSUANCE OF WORK ORDERS
4. THE CONTRACT SUM
5. PROGRESS PAYMENTS
6. ACCEPTANCE AND FINAL PAYMENT
7. THE CONTRACT DOCUMENTS
8. LIQUATED DAMAGES
9. EXTRA WORK
10. ENUMERATION OF SPECIFICATIONS AND DRAWINGS
11. AGREEMENT OF PARTIES

PART VI

CONTRACT AGREEMENT

THIS AGREEMENT, made on the 9th day of October, 2014, by and between **Lexington-Fayette Urban County Government**, acting herein called "OWNER" and **Todd Johnson Contracting, Inc.**, doing business as a corporation located in the City of **Danville**, County of **Boyle**, and State of **Kentucky**, hereinafter called "CONTRACTOR."

WITNESSETH: That the CONTRACTOR and the OWNER in consideration of Contract Unit Prices quoted in the proposal by the CONTRACTOR, dated **August 25, 2014**, hereby agree to commence and complete the construction described as follows:

1. SCOPE OF WORK

The CONTRACTOR shall furnish all the materials, supplies, machinery, equipment, tools, superintendence, labor, insurance, and other accessories and services necessary to complete the said project in accordance with the conditions and prices stated in the Proposal, the General Conditions, and the Special Conditions of the Contract, the Specifications and Contract Documents therefor as prepared by the ENGINEER for the Work Sites and Work subsequently identified by the OWNER and accepted by the CONTRACTOR.

2. TIME OF COMPLETION

The time period estimated and authorized by the OWNER for completion of the Work by the CONTRACTOR shall be that time period specified by an individual Purchase Order and Contract Agreement for each individual Work Site, adjusted as provided by the General Conditions. Commencement of the work and time to completion shall be as stated in the Contract Agreement.

Contract Agreement to be completed for each individual Project:

For the **To be Determined** Project the time period estimated and authorized by the OWNER for the proper execution of the Work by the Contract, in full, is hereby fixed as **To Be Determined (TBD)** calendar days. The time shall begin ten (10) days after the date specified in the Notice to Proceed with the Work. Failure to complete project within this time frame will obligate the OWNER to execute Liquidated Damages as described in Section 8 of this Agreement.

3. ISSUANCE OF WORK ORDERS

Notice to begin Work will be given in whole or for part of the Work as determined by the OWNER. The order of construction will be as determined by the Engineer after consultation with the CONTRACTOR and the OWNER.

4. THE CONTRACT SUM

The OWNER agrees to pay the CONTRACTOR in current funds for the performance of the Contract, as quoted in the proposal, subject to any additions and deductions, as provided therein.

5. PROGRESS PAYMENTS

The OWNER shall make payments on account of the Contract, as provided in accordance with the General Conditions, as estimated by the Engineer, less the aggregate of previous payments.

6. ACCEPTANCE AND FINAL PAYMENT

Final payment shall be due within sixty (60) days after completion of the Work, provided the Work be then fully completed and the Contract fully accepted.

Before issuance of final certificate, the CONTRACTOR shall submit evidence satisfactory to the Engineer that all payrolls, material bills, and other indebtedness connected with the Work has been paid.

If, after the Work has been substantially completed, full completion thereof is materially delayed through no fault of the CONTRACTOR, and the ENGINEER so certifies, the OWNER shall upon certificate of the ENGINEER, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

7. THE CONTRACT DOCUMENTS

The Advertisement for Bids, Information for Bidders, the General Conditions, Performance and Payment Bonds, Contract Agreement, Special Conditions, Technical Specifications, any and all Addenda, and Proposal, and Plan Drawings form the Contract, and they are fully a part of the Contract as if hereto attached or herein repeated.

8. LIQUIDATED DAMAGES

It is mutually agreed by and between the parties hereto that time is of the essence when constructing projects under this Contract, and that there will be sustained by the OWNER damages, monetary and otherwise, in the event of delay in the completion of the Work hereby contracted. The CONTRACTOR will be held responsible to the OWNER for delays in completion of the Work

herein contracted beyond the date set for completion. Such monetary damage shall be deducted from the Contract sum in the amount of TWO HUNDRED FIFTY DOLLARS (\$250.00) per calendar day of such delay, or the sum as specified by the Section 108, KDOH Standard Specifications, current edition. If the Work contracted to be done shall not, in good faith, be commenced at the time specified, then the CONTRACTOR together with the Surety or Sureties upon the bond herein provided for, shall be liable for and shall pay to the OWNER all damages sustained by reason of such failure for breach of Contract, and the OWNER may immediately relet the Work involved.

9. EXTRA WORK

The OWNER, without invalidating the Contract, may order extra work or make changes by altering, adding to or deducting from the Work, the Contract Sum being adjusted accordingly. All such Work shall be executed and paid for in accordance with the General Conditions, which is a part of this Contract.

10. THE FOLLOWING IS AN ENUMERATION OF THE SPECIFICATIONS AND DRAWINGS (CONTRACT DOCUMENTS):

CONTRACT DOCUMENTS AND SPECIFICATIONS

SECTION NO.	TITLE	PAGES
I	Advertisement for Bids	AB 1 thru 4
II	Information for Bidders	IB 1 thru 14
III	Form of Proposal	P 1 thru 48
IV	General Conditions	GC 1 thru 50
V	Special Conditions	SC 1 thru 8
VI	Contract Agreement	CA 1 thru 5
VII	Performance and Payment Bonds*	PB 1 thru 7
VIII	Technical Specifications	TS 1 thru 126
IX	Addenda	AD 1 thru 1
Appendix A	(68) LFUCG Standard Drawings	
Appendix B	(12) LFUCG Erosion and Sediment Control Standard Drawings	
Appendix C	(34) KDOH Standard Drawings	

* Standard Performance and Payment Bond forms are included in this Contract Book. Bonds will be obtained on a per-project basis as required by the contract documents.

PLAN DRAWINGS

Plan Drawings will be provided at the option of the Owner for specific Work Sites.

11. AGREEMENT OF PARTIES

IN WITNESSETH WHEREOF, the parties hereto have executed this Contract as of the date and year above written.

(Seal)

Lexington-Fayette Urban County Government
Lexington, Kentucky

(Owner)

ATTEST:

Moule Malley, Deputy
Clerk of the Urban County Council

BY:

Jim Gray
Jim Gray

MAYOR

(Title)

(Witness)

(Seal)

Todd Johnson Contracting, Inc.

(Contractor)

Tom Dusa
(Secretary)*

BY:

Kinda Johnson

Steve Hanson
(Witness)

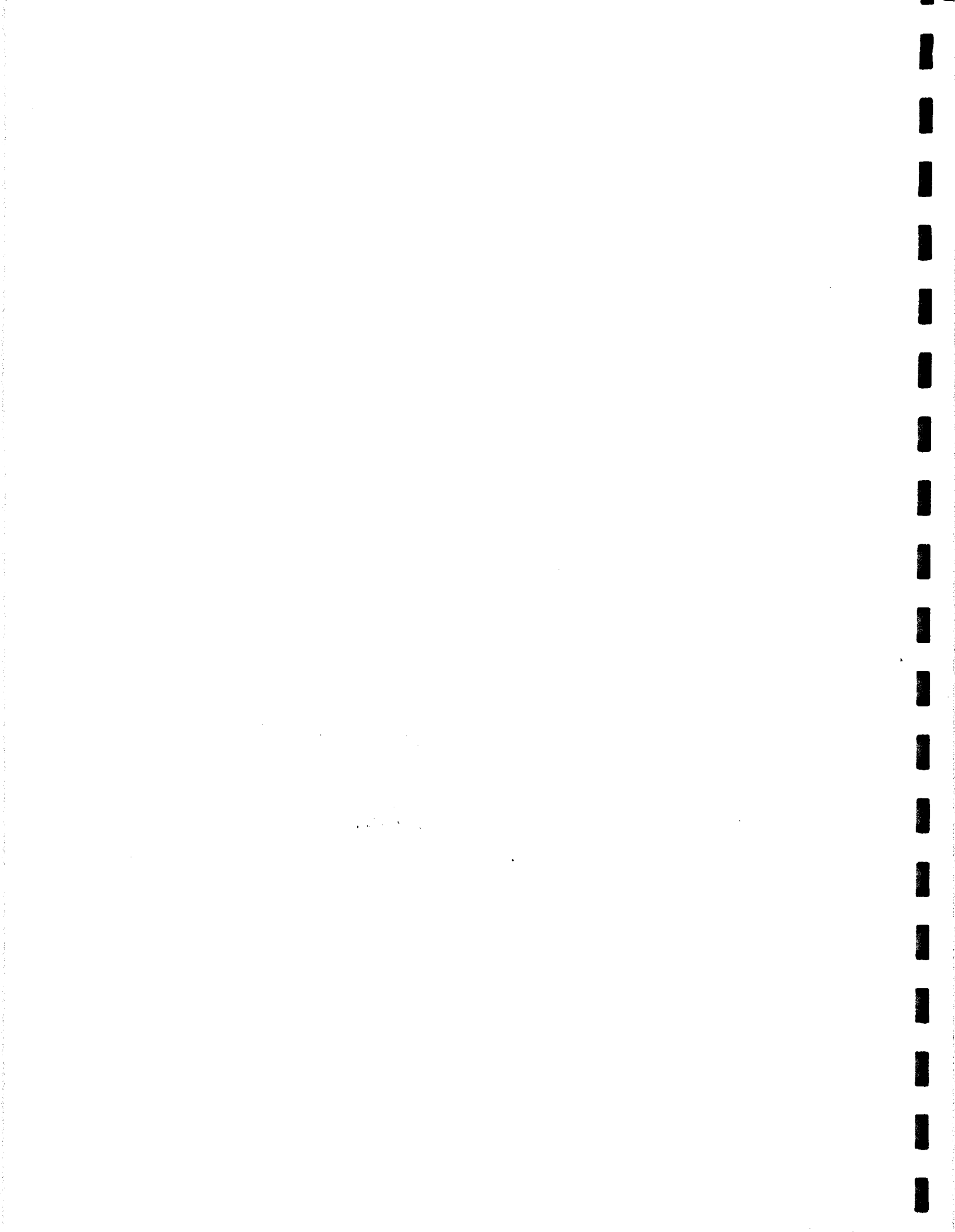
President
(Title)

497 Dillehay St., Danville, KY 40422

(Address and Zip Code)

IMPORTANT: *Strike out any non-applicable terms.

Secretary of the Owner should attest. If the CONTRACTOR is corporation, Secretary should attest. Give proper title of each person-executing Contract.



PART VII

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENT: that

(Name of Contractor)

(Address of Contractor)

a _____
hereinafter called (Corporation, Partnership or Individual)

Principal, and

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto:

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
200 East Main Street, Third Floor
Lexington, Kentucky 40507

Obligee, hereinafter called OWNER, for the use and benefit of claimants as hereinafter defined, in the amount of _____ Dollars (\$ _____) the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal by written agreement is entering into a Contract with OWNER for _____ (project name) in accordance with drawings and specifications prepared by: _____ (the Engineer) which Contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions.

1. A claimant is defined as one having a direct contract with the Principal or with a Subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that

part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

2. The above named Principal and Surety hereby jointly and severally agree with the OWNER that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The OWNER shall not be liable for the payment of any costs or expenses of any such suit.

3. No suit or action shall be commenced hereunder by any claimant:

(a) Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: The Principal, the OWNER, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the Work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the Work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, OWNER, or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer.

(b) After the expiration of one (1) year following the date on which Principal ceased Work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

(c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against aid improvement, whether or not claim for the amount of such lien be presented under and against this bond.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts,
each one of _____ (number)

which shall be deemed an original, this the _____ day of _____, 20_____.

ATTEST:

(Principal) Secretary

(SEAL)

(Witness to Principal)

(Address)

ATTEST:

(Surety) Secretary

(SEAL)

Witness as to Surety

(Address)

(Principal)

BY: _____(s)

(Address)

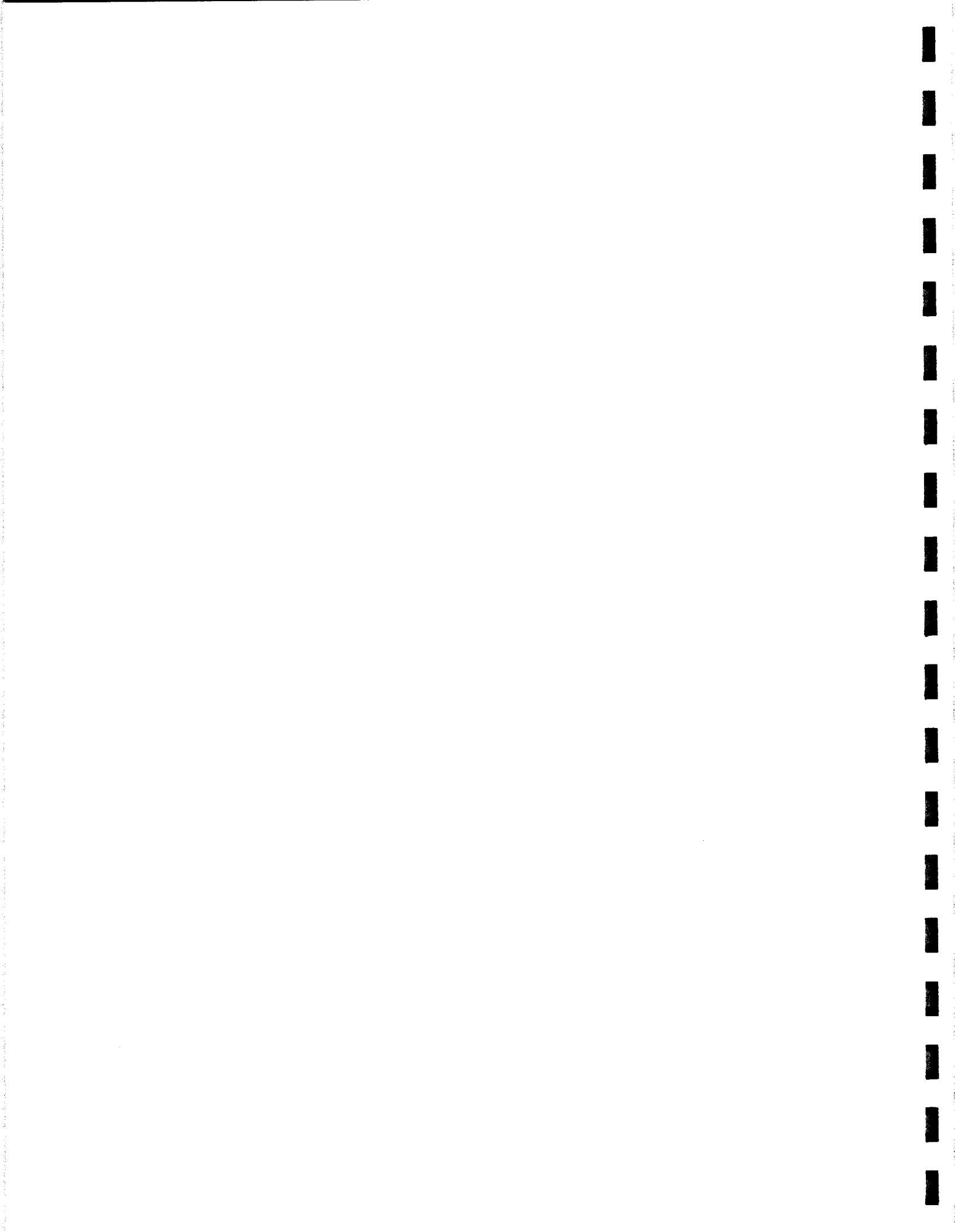
(Surety)

BY: _____
(Attorney-in-Fact)

(Address)

NOTE: The number of executed counterparts of the bond shall coincide with the number of executed counterparts of the Contract.

END OF SECTION



PART VIII

TECHNICAL SPECIFICATIONS

TABLE OF CONTENTS

SECTION A - GENERAL PROVISIONS 3
SECTION B - MAINTENANCE OF TRAFFIC..... 8
SECTION C - FINAL CLEANUP 10
SECTION 1 - CONSTRUCTION STAKING..... 11
SECTION 2 - CLEARING AND GRUBBING 12
SECTION 3 - EARTHWORK..... 14
SECTION 4 – THIS SECTION RESERVED 17
SECTION 5 - ROCK EXCAVATION (MECHANICAL) 18
SECTION 6 – REMOVE CONCRETE AND MISC ITEMS 19
SECTION 7 - REMOVAL OF TREES AND STUMPS 21
SECTION 8 - DENSE GRADED AGGREGATE 22
SECTION 9 - CRUSHED STONE..... 23
SECTION 10 - STEEL REINFORCEMENT FOR CONCRETE..... 24
SECTION 11 - FORMED CLASS A CONCRETE AND UNFINISHED CONCRETE 25
SECTION 12 - CONCRETE SIDEWALK (4½" AND 6") 26
SECTION 13 - CONCRETE ENTRANCE PAVEMENT 28
SECTION 14 - SIDEWALK RAMPS 29
SECTION 15 – HEADER CURB AND CURB AND GUTTER 30
SECTION 16 - BITUMINOUS PAVEMENT MILLING AND TEXTURING..... 31
SECTION 17 - BITUMINOUS BASE..... 32
SECTION 18 - CLASS I BITUMINOUS SURFACE 33
SECTION 19 – BITUMINOUS MATERIAL FOR TACK 34
SECTION 20 - SURFACE INLET..... 35
SECTION 21 – CURB AND DROP BOX INLET 36
SECTION 22 - MANHOLE CONSTRUCTION 37
SECTION 23 - MANHOLE - ADDITIONAL VERTICAL DEPTH 40
SECTION 24 - MANHOLE OR CURB BOX INLET TIE-IN 41
SECTION 25 - STORM SEWER PIPE..... 42
SECTION 26 - INTERNAL INSPECTION OF SEWER PIPE: CCTV 48
SECTION 27 - HEADWALLS 51
SECTION 28 - IMPACT STILLING BASIN 52
SECTION 29 - PAVED DITCH..... 53

SECTION 30 - AGGREGATE CHANNEL LINING FOR SLOPE PROTECTION.....	54
SECTION 31 - SEEDING AND PROTECTION	55
SECTION 32 - SODDING	56
SECTION 33 - GABION MATTRESS CHANNEL LINING.....	57
SECTION 34 - HIGH DENSITY POLYETHYLENE PERFORATED PIPE.....	58
SECTION 35 - SANITARY SEWER	59
SECTION 36 - TWO WAY SEWER SERVICE CLEANOUT	67
SECTION 37- SANITARY SEWER TEES AND BRANCHES.....	68
SECTION 38 - FENCING.....	69
SECTION 39 - SMALL EQUIPMENT WITH OPERATOR.....	70
SECTION 40 - SINGLE OR TRIPLE AXLE DUMP TRUCK.....	72
SECTION 41 - EROSION AND SEDIMENT CONTROL	73
SECTION 42 - GEOTEXTILE CONSTRUCTION.....	79
SECTION 43 - EDGE KEY	80
SECTION 44 - PIPE PLUGGING.....	81
SECTION 45 - FLOWABLE FILL	82
SECTION 46 - FIBER REINFORCED PCC PAVEMENT.....	83
SECTION 47 - SINGLE BLOCK MASONRY RETAINING WALL	85
SECTION 48 - EROSION CONTROL BLANKET.....	86
SECTION 49 - PROJECT SIGN	89
SECTION 50 - STEEL W BEAM GUARDRAIL & END TREATMENTS	90
SECTION 51 - ARTICULATING CONCRETE BLOCK.....	91
SECTION 52 - RCP PIPE AND MANHOLE REPAIRS.....	92
SECTION 53 - SAWCUTTING WALK, CURB, PAVEMENT, ETC.	94
SECTION 54 - PRECAST REINFORCED CONCRETE BOX CULVERT	95
SECTION 55 - DETECTABLE WARNING SURFACE TILE.....	97
SECTION 56 - UNSPECIFIED, INCIDENTAL MATERIALS	107
SECTION 57 - UNSPECIFIED, INCIDENTAL LABOR.....	108
SECTION 58 - THIS SECTION RESERVED	109
SECTION 59 - BULB-OUTS	110
SECTION 60 - GRADER WITH OPERATOR	123
SECTION 61 - ROLLER/COMPACTOR WITH OPERATOR	124
SECTION 62 - TOPSOIL PLACEMENT.....	125

TECHNICAL SPECIFICATIONS

SECTION A - GENERAL PROVISIONS

A.1 KENTUCKY DEPARTMENT OF HIGHWAYS - SPECIFICATIONS

Except as otherwise indicated on the Plans, and in the Contract Documents and Specifications, all items of Work including materials, construction methods, method of measurement and basis of payment shall comply with the current edition of the *Kentucky Department of Highways (KDOH) Standard Specifications for Road and Bridge Construction* and all current revisions.

With regard to the incorporation *Standard Specifications of KDOH* into these Technical Specifications, the following should be noted:

- Unless either the content implicitly or the Plans and Contract Documents and Specifications explicitly indicate otherwise, all KDOH references to "the Department" should be construed as being references to the Lexington-Fayette Urban County Government (LFUCG).
- Any discrepancy between the *Standard Specifications of KDOH* and the express intentions of Lexington-Fayette Urban County Government (i.e., Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government Standard Drawings) shall be resolved in favor of the latter. (An example of one of the more common types of discrepancy is that which sometimes occurs with regard to the measurement of and payment for Work items.)

A.2 ABBREVIATIONS

Abbreviations of standards, codes, and publications used within these Specifications are as follows:

ASTM	American Society of Testing and Materials
ANSI	American National Standard Institute
KDOH	Kentucky Department of Highways, "Standard Specifications for Road and Bridge Construction", Current Edition

A.3 SCOPE

It is the intent that the CONTRACTOR, in accordance with the Plans, Contract Documents and Specifications, and other mutually acknowledged informational materials shall perform everything required to be performed and to furnish a complete, fully operating Work, and shall provide and furnish all labor, materials, necessary tools, expendable and non-expendable equipment and all transportation services required for the entire, proper completion of the Work, the cost of all of which shall be included in his bid.

The CONTRACTOR shall make all requisite excavations and foundation preparation for constructing sidewalks, incidental drainage structures, and retaining walls. The CONTRACTOR

shall, where required, excavate and prepare subgrade for pavement widening and replacement. The CONTRACTOR shall provide all signs, lighting, barricades, flagmen and watchmen, and make provisions necessary to protect and maintain buildings, fences, trees, shrubs, poles, existing utility fixtures, watercourses, surface drains, or other structures in, on, across, or adjacent to the Work and repair all damage done to them where and as required. The CONTRACTOR shall perform all backfilling, restore walks, grass plots, flowers, shrubs, trees, paved surfaces, etc., damaged or disturbed and clear away all rubbish and surplus materials. The CONTRACTOR shall put in complete and acceptable working order the items covered by the Contract.

This Specification sets forth several items of Work or conditions, which are required as integral parts of the successful completion of the Project. All items discussed herein under General Provisions are considered incidental to the overall accomplishment of the Project and no separate payment shall be made therefore unless otherwise noted elsewhere in these specifications.

A.4 CONTRACTOR'S FACILITIES

A.4.1 Sanitary Facilities: The CONTRACTOR shall provide and maintain all necessary sanitary facilities at the site, in accordance with all applicable regulations, and shall properly remove same at completion of the Project.

A.4.2 Utilities: The obtaining of all utilities, which may be required for construction shall be the responsibility of the CONTRACTOR.

A.5 CONTRACTOR'S FIELD OFFICE

A CONTRACTOR'S Field Office is not required.

A.6 UTILITIES

The CONTRACTOR is to notify all utility companies prior to beginning construction operations.

It shall be the CONTRACTOR'S responsibility to locate all utilities, make appropriate arrangements regarding relocation, maintain utility service throughout the construction period, and make final relocations at the completion of the Work. The CONTRACTOR shall be responsible for any injury or damage to the existing utilities due to his operations whether shown or not shown in the plans. Where utilities are shown or indicated on the plans, the information given is in accordance with the best information in possession of the OWNER but is approximate only. The data is not warranted to be either complete or correct, and the CONTRACTOR shall assume all risks resulting from the conditions arising from the approximations shown.

The CONTRACTOR shall confer with the utility companies to inform them of the proposed construction schedule, verify the location and elevation of existing utilities and arrange for the relocation and adjustment of any facilities to avoid interference with the proposed construction. All such activities are to be performed under the direction of and with the approval of the ENGINEER.

When the various utility owners find it necessary to make adjustments to their lines where the CONTRACTOR is presently working, the CONTRACTOR is to move his operations to another area of Work so as not to interfere in any way with the utility company's Work.

Any utilities covered up or lost by the construction operations of the CONTRACTOR shall be uncovered and found by the CONTRACTOR and the new construction repaired and/or replaced as directed by the ENGINEER. No additional compensation will be allowed for such Work nor shall any additional payment be allowed for the relocation and adjusting of any utility but shall be considered incidental to other Work.

The CONTRACTOR shall make a concerted effort to prevent any disruption of utility services, and if an unintended disruption occurs, the CONTRACTOR shall immediately and safely restore service. If disruption of any of the utility services covered in this section is unavoidable, it will be the responsibility of the CONTRACTOR to notify affected property owners. The CONTRACTOR shall also make every effort to restore said services before quitting Work for the day. In the event this cannot be done, the CONTRACTOR shall provide temporary service to the property owners until permanent service can be restored.

A.7 TESTING

From time to time during the progress of the Work, the ENGINEER may require that testing be performed to determine the materials provided meet the specified requirements. The Lexington-Fayette Urban County Government will select a testing laboratory to perform the testing services. The cost of such services shall be the responsibility of the OWNER. If testing reveals defective materials or Work, the cost of said testing will become the responsibility of the CONTRACTOR.

A.7.1 Codes and Standards: Testing, when required, will be in accordance with all pertinent codes and regulations and with selected standards of the American Society for Testing and Materials.

A.7.2 Cooperation with the Testing Laboratory: Representatives of the testing laboratory shall have ready access to the Work at all times. The CONTRACTOR shall provide facilities for such access in order that the laboratory may properly perform its functions.

A.8 INSTALLATION REQUIREMENTS

Manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned as suggested by the respective manufacturers, unless otherwise specified herein or directed by the ENGINEER.

A.9 PROOF OF COMPLIANCE

Whenever the Contract Documents require that a product be in accordance with Federal Specifications, ASTM Designations, ANSI Specifications, or other associations' standards, the CONTRACTOR shall present a certification from the manufacturer that the product complies

therewith. When requested or specified, the CONTRACTOR shall submit supporting test data to substantiate compliance.

A.10 DUST CONTROL

The CONTRACTOR shall be responsible for minimizing the generation of dust resulting from his operations at all times. The CONTRACTOR shall be required to maintain all excavations, embankments, stockpiles, roads, permanent access roads, plant sites, waste areas, and all other Work areas within or without the project boundaries free from dust, which would cause a hazard or nuisance to others. Approved temporary methods of stabilization consisting of sprinkling, chemical treatment, light bituminous treatment, or similar methods will be permitted to control dust. Dust control shall be performed as the Work proceeds, and whenever a dust nuisance or hazard occurs.

A.11 REPAIR OF DAMAGE

Any damage done to structures, fills, roadways, or other areas shall be repaired at the CONTRACTOR'S expense before final payment is made.

A.12 PROJECT EXTENT

The CONTRACTOR shall be responsible for satisfying himself as to the construction limits for the Project. The CONTRACTOR shall not establish Work, storage, or staging area outside the Project limits, unless otherwise directed or approved by the ENGINEER.

A.13 WORKING HOURS

Work on these Projects shall generally be restricted to daylight hours, but may be further restricted by the ENGINEER if required; except emergency Work, such as any necessary pumping, which may require 24-hour operation. If the CONTRACTOR elects to Work beyond the normal work week, he shall notify the ENGINEER of his intent as far in advance as possible. Lane closures for all streets with a functional classification above local shall occur only between the hours of 9:00 a.m. and 3:00 p.m., except as approved by the ENGINEER.

A.14 GUARANTEE

The CONTRACTOR shall assume responsibility for all workmanship and materials for a period of one year from final payment. Any Work found to be defective due to failure to comply with the provision and intent of the Contract Documents, Specifications, and Plans shall be replaced at the CONTRACTOR'S expense.

A.15 PROPERTY CONSIDERATION

Materials having a salvage value shall remain the property of the OWNER. Salvageable material rejected by the OWNER shall become the responsibility of the CONTRACTOR to dispose of in a proper manner subject to the approval of the ENGINEER.

A.16 BLASTING

Blasting is addressed in the Special Conditions.

A.17 HAZARDOUS MATERIAL - GAS LINES

The CONTRACTOR is advised to exercise caution in his operations on this project, regardless of whether the plans indicate or do not indicate the presence of any gas or hazardous materials carrying lines.

A.18 DIVERSION OF STORM WATER

Appropriate measures must be taken to sandbag the necessary manholes and to divert drainage around the area under construction, including the use of pumps if necessary. The CONTRACTOR is responsible for developing a plan to divert storm drainage around the construction area with the approval from the ENGINEER. Materials, labor, and all incidentals necessary to accomplish this diversion of storm drainage will be considered incidental to the contract unless noted otherwise in Section 41 of these Specifications.

A.19 SEWER SERVICE MAINTENANCE

This Work shall consist of maintaining existing sanitary sewer service to residents in the area during construction. Sewage is to be maintained by whatever means necessary, with the exception of unavoidable short-term disconnections during sewer replacement. No surcharge of manholes causing a sewer back-up into a property will be allowed.

With the exception of approved sewer by-pass pumping as noted in Section 35 of these Specifications, no separate payment will be made for Sewer Service Maintenance. Sewer Service Maintenance shall include all materials, equipment and labor necessary to maintain sewer service to residents during construction.

A.20 EROSION AND SEDIMENT CONTROL

This work as described in Section 5.17 of the General Conditions shall involve preparation of a Stormwater Pollution Prevention Plan,(SWPP) a Notice of Intent (NOI-SWCA), a Notice of Termination (NOT), and a Land Disturbance Permit (LDP). Preparation of these documents shall be the responsibility of the Contractor.

Payment for preparation of the SWPP, the NOI and NOT will only be paid when the Work specifically requires a these documents. Payment will be in accordance with the *Table of Incremental Costs for Mobilization and Additional Services*, provided in Part III, *Form of Proposal*, of this Contract Document (immediately following the Bid Schedule).

Payment for the LDP will be incidental to the cost of other work performed under the UPC contract. Other related permits, such as a Stream Encroachment Permit, Water Quality Certification, and/or USACE permits, shall be obtained by the LFUCG as needed.

TECHNICAL SPECIFICATIONS

SECTION B - MAINTENANCE OF TRAFFIC

B.1 SCOPE

The CONTRACTOR shall maintain all local vehicular and pedestrian traffic along the project during construction. The CONTRACTOR shall present a plan for maintenance of traffic and traffic signs subject to the approval of the Lexington-Fayette Urban County Government Traffic Engineer prior to the beginning of Work. All bus routes shall remain in operation during scheduled bus operating hours. Loading zone space shall be made available as necessary during normal business hours. At least one lane of traffic shall be maintained on all cross streets.

B.2 MATERIALS

The CONTRACTOR shall furnish bridging plates or provide other means of maintaining safe access for pedestrians and service traffic to all businesses during normal working hours. Adequate personnel shall be available during daylight hours to assure maintenance. Metal trench covers, granular backfill or other suitable methods shall be utilized to maintain vehicular traffic through areas disturbed by construction operations.

B.3 SIGNING

The CONTRACTOR shall furnish and erect suitable barricades, signs and other necessary devices to control, guide and safeguard traffic passing through or around the construction project. All such devices shall conform in all respects to the requirements of the Manual on Uniform Traffic Control Devices for Highway Construction and Maintenance Projects. The CONTRACTOR, before erecting any barricades or changing the location of one already placed, shall notify the ENGINEER at least three days prior to such contemplated erection or change, except in case of an emergency. In case of an emergency, the ENGINEER may direct the CONTRACTOR to immediately provide safety and warning devices to safeguard traffic. All night-time control devices requiring illumination shall be lighted every night during the entire period from sunset to sunrise. The CONTRACTOR will be held responsible for all damage to Work due to failure to provide barricades, signs, lights, and watchmen to protect it; and whenever evidence of such damage is found prior to acceptance, the ENGINEER may order the damaged portion removed and replaced by the CONTRACTOR at the CONTRACTOR'S expense. The responsibility remains the CONTRACTOR'S until the project is accepted.

B.4 APPLICABLE KENTUCKY DEPARTMENT OF HIGHWAYS (KDOH) STANDARD SPECIFICATIONS

To the extent that it does not conflict with the content of the Plans, Contract Documents, and Specifications, Subsection 112 of KDOH Standard Specifications, current edition, is incorporated into this Technical Specification.

B.5 MEASUREMENT AND PAYMENT

Additional payment for the maintenance of traffic will only be paid when measures such as lane blockages, detours, or flagging of traffic are required to accomplish Work. Payment will be in accordance with the *Table of Incremental Costs for Mobilization and Additional Services*, provided in Part III, *Form of Proposal*, of this Contract Document (immediately following the Bid Schedule).

TECHNICAL SPECIFICATIONS

SECTION C - FINAL CLEANUP

C.1 SCOPE

The Work will not be considered as complete, and final payment will not be made, until the right-of-way and all ground occupied by the CONTRACTOR in connection with the Work has been cleared of all rubbish, equipment, excess materials, temporary structures, and weeds. Rubbish and all waste materials of whatever nature shall be disposed of in waste areas provided by the CONTRACTOR. All property, both public and private, which has been damaged in the execution of the Work, shall be repaired or replaced in an acceptable manner. All ditches in the area of the Work shall be drained and areas affected by the Work shall be left unobstructed and in such condition as acceptable to the ENGINEER.

C.2 PAYMENT

No direct payment will be made for final cleanup. Retainage will be withheld until ENGINEER approves final cleanup.

TECHNICAL SPECIFICATIONS

SECTION 1 - CONSTRUCTION STAKING

1.1 SCOPE

The CONTRACTOR shall furnish and be responsible for all staking (including initial staking), necessary to control and complete the Work per the specifications and in accordance with the lines and grades shown on the plans,

The CONTRACTOR shall establish a survey baseline, or if one has been previously established, the CONTRACTOR may elect to field-verify and adopt the existing baseline. Should, prior to beginning Work on the project, all or part of the baseline be destroyed, it will be the CONTRACTOR'S responsibility to re-establish this baseline from the reference points shown on the plans. It will be the CONTRACTOR'S responsibility to establish all offset projection centerlines shown on the plans. Should, during the course of construction of this project, any construction stakes be destroyed by others, it will be the CONTRACTOR'S responsibility to reset the stakes at no additional cost to the OWNER.

The CONTRACTOR'S staking party shall be under the general supervision of a Licensed Professional Land Surveyor. It shall be definitely understood that supervision of the resetting of construction staking is solely the responsibility of the CONTRACTOR and any errors or inaccuracies resulting from the operations of the construction staking party shall be corrected at no cost to the OWNER.

It will be the OWNER'S responsibility to make all measurements for determining final quantities to be used for basis of final payment on items of Work.

To the extent that it does not conflict with the content of the Plans and Contract Documents and Specifications, Section 201 of KDOH Standard Specifications, current edition, is incorporated into this technical specification.

1.2 PAYMENT

Additional payment for Construction Staking will only be paid when the Work specifically requires a precise layout by a surveyor. Payment will be in accordance with the *Table of Incremental Costs for Mobilization and Additional Services*, provided in Part III, *Form of Proposal*, of this Contract Document (immediately following the Bid Schedule).

TECHNICAL SPECIFICATIONS

SECTION 2 - CLEARING AND GRUBBING

2.1 SCOPE

This item includes the clearing and grubbing of any small trees, stumps, brush, bushes, cement concrete and/or stone masonry, steps, walls, and structures within the construction limits not otherwise removed by the excavation and grading operations or included in the summary items. Also, included is the proper removal and disposal of such materials in a manner acceptable to the ENGINEER and in a manner not detrimental to the inhabitants of the area. The CONTRACTOR will be responsible for determining and complying with laws and local ordinances regarding disposal and/or burning of such materials. Trees, shrubbery, fences, retaining walls, and other such items not specifically noted on the plans to be removed or saved in place, or not shown on the plans, but suspected of being within the project construction limits shall not be disturbed until so directed by the ENGINEER. Clearing and grubbing shall not commence without approval of the ENGINEER.

Work shall not be performed outside the right-of way limits and existing vegetation outside the limits shall not be disturbed unless authorized by the ENGINEER.

Also included in this item will be the careful removal and stockpiling for pickup by the OWNER of all street and traffic signs, inlet grates, manhole frames and covers and other such salvageable and reusable items not intended to be reset on the job.

Vegetated areas on which excavation or fill operations are to be performed shall be stripped of all vegetation, topsoil, and other organic material as directed by the ENGINEER.

When it is practical, stripped topsoil material shall be utilized or disposed of in the general area from which it came in a manner directed by the ENGINEER. Stockpiling of topsoil-type material will not be required, unless otherwise specifically designated on the Drawings or in the Specifications.

Where existing shrubs, fences, planter boxes, etc. are to be removed from the public right-of way for new construction under this Contract, and the property owner at this site wishes to replace or re-use same on his private property, the CONTRACTOR shall carefully remove and store on this property owner's property for his use after construction is completed.

To the extent that it does not conflict with the content of the Plans and Contract Documents and Specifications, Section 202 of KDOH Standard Specifications, current edition, is incorporated into this Technical Specification.

Separate sections of these technical specifications make provisions for excavation and for designated removal of individual trees; curb and gutter; sidewalks; entrance pavements; and bituminous concrete, and portland cement pavements. Where appropriate, separate items for these features will be included in the Purchase Order for the Work Site.

2.2 MEASUREMENT AND PAYMENT

Designated tree removal shall be paid for on a per tree basis as indicated by Section 7. Clearing and Grubbing shall be incidental to each Work Site unless otherwise stated in the Purchase Order.

TECHNICAL SPECIFICATIONS

SECTION 3 - EARTHWORK

3.1 SCOPE

The Work shall consist of the required removal and proper utilization or disposal of all excavated materials, forming embankments, and the shaping and finishing to the required lines and grades as shown on the Plans.

3.2 MATERIALS

All material removal shall be classified unless otherwise noted on Plans or written project description. This includes removal of all pavements, curbs, gutters, pipes, concrete and bituminous driveway entrances, and concrete sidewalks. It is anticipated that the majority of material to be removed will consist of a mixture of unconsolidated soil and rock, which generally will be classified as Common Excavation.

Common Excavation includes a variety of material that can be effectively excavated with various bucket, blade, and ripper equipment ranging from light for some materials to heavy for other materials.

Rock Excavation is effective excavation of rock. Rock generally is material intact in a geological formation which, for effective excavation must first be broken with explosives or alternately, with drills, jack hammers, heavy hoe rams, rock trenchers, heavy single-tooth rippers or other high impact equipment. Contractor shall refer to Section 5, *Rock Excavation (Mechanical)*.

It is anticipated that most rock encountered in the Unit Price Contract setting will be sound, relatively hard limestone. Removing limestone that is highly weathered and broken in place to a degree that it can be effectively excavated with normal earth digging equipment (e.g., excavator, backhoe, etc.) will not be classified as Rock Excavation.

The determination of classification of excavation, except where all excavation is unclassified, will be made by the ENGINEER, as provided by Section 8 of the General Conditions, after careful consideration of facts.

Any reference to rock, earth, concrete, or any other material on the plans or cross-sections whether in numbers, words, letters, or lines is solely for the OWNER'S information and is not an indication of classified excavation or the quantity of any material involved. The Bidder must draw his own conclusions as to the conditions to be encountered. The OWNER does not give any guarantee as to the accuracy of the data and no claim will be considered for additional payment if the materials are not in accord with the classification shown.

For embankments, only acceptable materials from sources approved by the ENGINEER shall be used. No frozen material, or perishable materials of any kind will be allowed in the embankment. No stone or masonry fragment greater than 4 inches in any dimension will be allowed in the top 12 inches beneath the finished elevation.

3.3 GENERAL

Excavation and grading shall be done in a neat and workmanlike manner to form smooth and uniform subgrades and surfaces for all subsequent operations. Once the surfaces have been shaped to the proper template and compacted to the satisfaction of the ENGINEER and in accordance with the current edition of the Kentucky Department of Highways Standard Specifications, they shall be maintained in such condition until covered by subsequent construction operations.

Material removed shall include excavation to the designated depths, transporting of removed materials from points of removal to points of final use, disposal of surplus materials, and the shaping and finishing of all areas to the required lines and grades as shown on the Drawings.

Surplus material will become the responsibility of the CONTRACTOR to dispose of off the project limits at a site acquired by the CONTRACTOR at no expense to the OWNER and approved by the ENGINEER. CONTRACTOR is to obtain grading permit, if applicable for disposal site.

Material removal carried below the indicated depths, except when directed by the ENGINEER, shall be replaced with material satisfactory to the ENGINEER. Additional payment will not be necessitated thereby. All areas of fill shall be constructed to the lines and grades indicated on the Drawings, unless otherwise directed by the ENGINEER.

3.4 PREPARATION OF SUBGRADE

Preparation of subgrade for pavements, bases, curbs, gutters, sidewalks, and retaining walls shall conform to the required grades and the specified depth below the designated surface of the particular item for which it is intended. All soft and spongy places in the subgrade shall be excavated and backfilled with No. 2 coarse aggregate (separate pay item as per Section 7) below the base coarse level, then brought to grade with dense graded aggregate. Once the subgrade has been shaped to the proper template and compacted to the satisfaction of the ENGINEER and in accordance with the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, current edition, it shall be maintained in such condition until covered by subsequent construction operations. Any portion of the subgrade, which cannot be shaped and compacted by the use of machinery, shall be prepared by the use of hand tools.

3.5 UTILIZATION OF REMOVED MATERIALS

All suitable material removed shall be used, insofar as it is practicable, in constructing the fill and embankments shown on the Drawings provided that the ENGINEER approves.

3.6 CONSTRUCTION TOLERANCES

The CONTRACTOR shall make every reasonable effort to construct the project uniformly. Tolerances, which will be allowed, before changes in the quantities to be paid will be made or before reworking of the constructed item is required, shall comply with the KDOH Standard Specifications, Section 204, 207 current edition.

No payment will be made for any earthwork performed outside the limits shown on the Drawings or those approved by the ENGINEER. No extra material shall be removed or placed outside of these limits without permission.

3.7 STANDARD SPECIFICATIONS

To the extent that they do not conflict with the content of the Plans and Contract Documents and Specifications, Sections 109, 203, 204, 205, 206, 207, and 211 of KDOH Standard Specifications, current edition, are incorporated into this Technical Specification.

3.8 MEASUREMENT AND PAYMENT FOR EXCAVATION

Payment for Excavation shall be for the quantity indicated by the plans and/or Purchase Order unless the ENGINEER authorizes changes in Excavation. Approved changes will be measured using approved lines and grades.

The accepted quantities thus measured will be paid for at the Contract Unit Price per cubic yard for Excavation and shall be full compensation for all labor, equipment, and incidentals necessary to complete the Work, in place, ready for use.

3.9 EMBANKMENT

The Work shall consist of forming embankments with materials from sources indicated on the Plans or from other approved sources in accordance with these Specifications, to conform to the lines, grades, and cross-sections specified. The Work shall be performed in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Constructions, Current Edition, Section 206.

3.10 MEASUREMENT AND PAYMENT FOR EMBANKMENT

Payment for Embankment shall be for the quantity indicated by the plans and/or Purchase Order unless the ENGINEER authorizes changes in Embankment. Approved changes will be measured using approved lines and grades.

The accepted quantities thus measured will be paid for at the Contract Unit Price per cubic yard for Embankment and shall be full compensation for all labor, equipment, and incidentals necessary to complete the Work, in place, ready for use.

TECHNICAL SPECIFICATIONS

SECTION 4 - THIS SECTION RESERVED

TECHNICAL SPECIFICATIONS

SECTION 5 - ROCK EXCAVATION (MECHANICAL)

5.1 SCOPE

Work under this Section shall be accomplished by accepted methods of either drilling, jack hammering, hoe ramming, rock trenching, single-tooth ripping, or using other high-impact equipment to remove rock in areas where blasting is not acceptable as determined by the ENGINEER. Any property damage caused by operations under this section is the responsibility of the CONTRACTOR. All Work under this Section is to be completed as defined in the Kentucky Department of Highways Standard Specifications.

5.2 BASIS OF PAYMENT

Accepted quantities for Rock Excavation (Mechanical) will be made at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per cubic yard of Rock Excavation (Mechanical) satisfactorily completed. Classification of excavation will be as described in Section 3. Work under this Section shall include all labor, materials, equipment, removal and disposal of loose rock, and incidentals necessary to complete the Work.

TECHNICAL SPECIFICATIONS

SECTION 6 – REMOVE CONCRETE AND MISC ITEMS

(REMOVE PORTLAND CEMENT CONCRETE PAVEMENT, SIDEWALKS, ENTRANCE PAVEMENT, BITUMINOUS CONCRETE PAVEMENT, CURB AND GUTTER, PIPE, FENCE, OR HEADWALLS AND INLET STRUCTURES)

6.1 SCOPE

Work will consist of the removal of Portland Cement Concrete Pavement, Sidewalks, Entrance Pavement, Bituminous Concrete Pavement, Curb and Gutter, Pipe, Fence and Headwall and Inlet Structures (dimensions as specified in the Purchase Order). Work for this Section shall conform to the Kentucky Department of Highways Standard Specifications, Section 203, current edition, and shall include all labor, materials (including base and DGA), equipment, excavation, disposal (hauling and tipping fees), saw-cutting and incidentals necessary to complete Work. Removal areas will terminate at fully sawed joint faces. All materials shall be disposed of off site at an approved location and in an acceptable manner.

6.2 BASIS OF PAYMENT FOR THE REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, SIDEWALK, ENTRANCE PAVEMENT, AND BITUMINOUS CONCRETE PAVEMENT

Accepted quantities for Removal of Portland Cement Concrete Sidewalk, Entrance Pavement, and Bituminous Concrete Pavement will be paid for at the Contract Unit Price as quoted for each item (which shall be full compensation for all Work under this Section) and paid per square yard of the specified item satisfactorily removed. All labor, materials (including base and DGA), excavation, disposal and equipment shall be incidental to the removal of Portland Cement Concrete Pavement, Sidewalk, Entrance Pavement, and Bituminous Concrete Pavement.

6.3 BASIS OF PAYMENT FOR THE REMOVAL OF CURB AND GUTTER

Accepted quantities for Removal of Curb and Gutter and Pipe will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per linear foot satisfactorily removed. All labor, materials, excavation, disposal and equipment shall be incidental to the removal of Curb and Gutter and Pipe.

6.4 BASIS OF PAYMENT FOR THE REMOVAL OF PIPE

Accepted quantities for Removal of Pipe up to eight (8) feet deep will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per linear foot satisfactorily removed. All labor, materials, excavation, disposal and equipment shall be incidental to the removal of Pipe. Pipe deeper than eight (8) feet deep payment will also include Excavation as a pay item.

6.5 BASIS OF PAYMENT FOR THE REMOVAL OF FENCE

Accepted quantities for Removal of Fence (chain link, woven wire fence, wood, iron, etc.) will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per linear foot satisfactorily removed. All labor, materials, excavation, disposal and equipment shall be incidental to the removal of fence.

6.6 BASIS OF PAYMENT FOR THE REMOVAL OF HEADWALL AND INLET STRUCTURES

Accepted quantities for Removal of Headwalls and Inlet Structures will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per each satisfactorily removed. All labor, materials, excavation, disposal and equipment shall be incidental to the removal of Headwall and Inlet structures.

TECHNICAL SPECIFICATIONS

SECTION 7 - REMOVAL OF TREES AND STUMPS

7.1 SCOPE

Tree removal consists of removing trees marked for removal. Work for this Section shall include all labor, materials, equipment, and incidentals necessary to complete the Work.

Grinding and removal of stumps and roots is required unless substituted for grubbing with approval of the ENGINEER. When grinding is utilized, wood residue will be totally removed and replaced with approved, compacted topsoil. All stumps shall be ground to a depth that severs the roots from the main root mass or to a minimum depth of ten inches from finished or original grade (whichever is deeper). All holes resulting from the removal of stumps shall be backfilled by the end of the daily work period.

7.2 MEASUREMENT

Tree measurements shall be based on the diameter breast high (DBH). DBH is measured outside bark, 4.5 feet above ground on the uphill side of the tree. If there is some irregularity about the tree, such as a protruding knot or ring of knots, swelling, forking or other deformity, DBH must be taken at another point. Generally, the point of measurement is moved higher on the tree trunk, to a point where the deformity is no longer affecting the measurement.

7.3 BASIS OF PAYMENT

Accepted quantities for the Removal of Trees and Stumps will be paid for at the Contract Unit Price as quoted for various sizes (which shall be full compensation for all Work required under this Section) and paid per each item, as specified on the Purchase Order, which is satisfactorily removed. No separate payment will be made for trees less than 5 inches in diameter. All labor, materials, disposal (hauling and tipping fees) and equipment shall be incidental to Tree Removal.

TECHNICAL SPECIFICATIONS

SECTION 8 - DENSE GRADED AGGREGATE

8.1 SCOPE

This Work consists of the construction of Dense Graded Aggregate base in accordance with the Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government (LFUCG) Standard Drawings, current edition. Work in this section shall also conform to Sections 109, 207 and 302 of the Kentucky Department of Highways (KDOH) Standard Specifications, current edition, but only to the extent that these KDOH sections do not conflict with the content of the Plans, Contract Documents and Specifications, and LFUCG Standard Drawings. The requirements of KDOH Standard Specifications, Section 302, apply with the following changes:

- (1) Control strips will not be required or utilized for compaction control.
- (2) Test sections and target density, as prescribed in paragraph 302.03.04 will not be established.
- (3) Density measurements will be made at locations designated by the ENGINEER or representative.
- (4) Initial testing will be provided by the OWNER; any necessary re-testing requested by the CONTRACTOR will be at the CONTRACTOR'S expense.
- (5) The average of dry density measurements in a lift shall be equal to or better than 144 pounds per cubic foot (pcf). No individual measurement shall be less than 140 pcf.
- (6) In the event the dry density measurements are not met, laydown operations will be stopped in the substandard area identified by the ENGINEER or representative. The CONTRACTOR will either continue compaction effort or rework the designated section until the requirements for dry density are satisfied.

Work for this section shall include all labor, materials, equipment, excavation, and incidentals necessary to complete the Work.

8.2 PAYMENT

Accepted quantities for Dense Graded Aggregate will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per ton of Dense Graded Aggregate satisfactorily placed. Payment shall be based on weight tickets for Dense Graded Aggregate delivered and accepted for the work. All labor, materials (other than the Dense Graded Aggregate), delivery, equipment, and excavation shall be incidental to the placement of Dense Graded Aggregate.

TECHNICAL SPECIFICATIONS

SECTION 9 - CRUSHED STONE

9.1 SCOPE

All Work for this Section shall consist of furnishing and placing commercially available Crushed Stone aggregate in sizes and locations as determined by the ENGINEER and shall include all labor, materials, equipment, excavation, compaction, and incidentals necessary to complete the Work in place, ready for use and constructed in conformance with KDOH Standard Specifications.

No. 2's meeting the requirements of KDOH Section 805 should be used for locations as determined by the Engineer and shall include all labor, materials, equipment, excavation, and incidentals necessary to complete the Work in place, ready for use and constructed in conformance with KDOH Standard Specifications. No. 2 Stone meeting the requirements of KDOH Section 805 can be used for stabilizing sub-grade and pavement base etc.

Where soft, undesirable soil material is encountered at or below desired sub-grade elevation, undesirable material will be removed and/or bridged to develop a sufficient platform to support compaction of DGA. The depth and extent of this work shall be determined based on conditions observed and performance of compaction equipment on the sub-grade. Work shall be directed by the Engineer.

Stone will be dumped or pushed into place and walked in until support is developed for heavy equipment. The ultimate test will be the ability to provide an adequate compaction platform for the DGA base.

No. 9's and No. 57's meeting the requirements of KDOH Section 805 should be used for stabilizing subgrade and pavement base, trench backfill, in areas of undercut, as backfill in areas of pavement restoration, or pipe bedding not incidental to pipe as a pay item.

9.2 PAYMENT

Accepted quantities for No. 2's will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per ton of stone. No direct measurement shall be made. Payment shall be based on weight tickets for stone delivered and accepted for the work. All labor, materials (other than No. 2 Stone), equipment, proof testing, excavation and disposal of excavated material shall be incidental to the placement of No. 2 Stone.

Accepted quantities for No. 9's and No. 57's will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per ton of Crushed Stone satisfactorily placed. Payment shall be based on weight tickets for stone delivered and accepted for work. All labor, materials (other than the Crushed Stone), equipment, and excavation shall be incidental to the placement of Crushed Stone.

TECHNICAL SPECIFICATIONS

SECTION 10 - STEEL REINFORCEMENT FOR CONCRETE

10.1 SCOPE

Work for this Section shall conform to the Kentucky Department of Highways Standard Specifications, Section 602, current edition and shall include all labor, materials, equipment, and incidentals necessary to complete Work.

10.2 BASIS OF PAYMENT

Accepted quantities of Steel Reinforcement for Concrete will be paid for at the Contract Unit Price (which shall be full compensation for all Work under this Section) and paid per pound of reinforcing steel satisfactorily furnished and placed. All labor, materials (other than the steel reinforcement), and equipment shall be incidental to the placement of Steel Reinforcement for Concrete.

TECHNICAL SPECIFICATIONS

SECTION 11 - FORMED CLASS A CONCRETE AND UNFINISHED CONCRETE

11.1 SCOPE

Formed Class A Concrete and Unfinished Concrete for encasement, capping trenches, fill for cavities or voids and mass footings shall conform to the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, Section 601, Current Edition, and shall include all labor, materials, equipment and incidentals necessary to complete the Work.

Dimensions of Formed Class A Concrete or Unfinished Concrete are to be as specified by the Purchase Order.

11.2 BASIS OF PAYMENT

Accepted quantities for Formed Class A or Unfinished Concrete will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per cubic yard of specified concrete satisfactorily placed and accepted. All labor, materials, and equipment shall be incidental to the placement of Class A Concrete and Unfinished Concrete.

Formed A Concrete and Unfinished Concrete is bid in two (2) categories. Less than 10 cubic yards and greater than 10 cubic yards.

TECHNICAL SPECIFICATIONS

SECTION 12 - CONCRETE SIDEWALK (4½" AND 6")

12.1 SCOPE

This Work consists of the construction of sidewalks (dimensions as specified by the Purchase Order) on a thoroughly compacted subgrade in accordance with the Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government (LFUCG) Standard Drawings, current edition. Work in this section shall also conform to Sections 206, 207, 505, 601, 801, 802, 803, 804, 805, and 823 of the Kentucky Department of Highways (KDOH) Standard Specifications, current edition, but only to the extent that these KDOH sections do not conflict with the content of the Plans, Contract Documents and Specifications, and LFUCG Standard Drawings.

Sidewalk within the neat lines of an entrance shall be considered part of the entrance with regard to construction requirements and also measurement and payment. The entire entrance from inside curb edge through the transition to original driveway shall be completed in continuous pour unless approved otherwise by the ENGINEER.

Subgrade shall be thoroughly compacted. Soft or unsuitable subgrade shall be excavated and replaced with compacted No. 57 stone. At the discretion of the Engineer, Contractor shall place a 4" thick subbase of No. 57 stone on top of compacted subgrade and shall strike and mechanically compact the stone to produce a uniform flat surface.

Expansion joints shall be placed at 32-foot intervals. Expansion joint material shall be of approved quality and of one-half (½) inch thickness. Expansion joints shall extend entirely and continuously through the concrete, and all excess expansion joint material shall be trimmed to conform to the surface of the concrete.

Concrete shall be sufficiently vibrated to assure removal of air voids. Concrete sidewalks shall be struck off by use of a screed, and they shall be floated and brushed. Edges and division marks shall be finished in a neat and workmanlike manner through use of the proper concrete finishing tools. Division joints in sidewalks shall be three-fourths (¾) inch in depth, at four foot intervals, or as indicated on the Plans.

When it is necessary to replace portions of existing concrete sidewalks and entrance pavements, such existing features will be removed to the nearest transverse joint or division mark beyond the matching point indicated on the Plans. The existing concrete shall be sawed by an approved concrete saw. In the absence of a transverse joint or division mark, the sawing shall be performed as directed by the ENGINEER. It will not be permissible to place new concrete against the ragged edges of concrete caused by removal devices such as hand tools and air hammers.

All concrete used shall be Class A concrete on which Type 2 (white pigmented) curing compound is used (clear curing compound will be required in Historic Districts). Any placing of concrete must be immediately preceded by inspection and approval of the ENGINEER.

Work for this section shall include all labor, materials, equipment, excavation, and incidentals necessary to complete the Work.

12.2 PAYMENT

Accepted quantities for 4 ½ inch and 6 inch Concrete Sidewalk shall be paid for at their respective Contract Unit Prices as quoted (which shall be full compensation for all Work required under this Section) and paid per square yard of specified Concrete Sidewalk satisfactorily placed. All labor, materials, equipment, subgrade compaction, excavation and backfill shall be incidental to the placement of 4 ½ inch and 6 inch Concrete Sidewalks.

Accepted quantities for No. 57's will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per ton of Crushed Stone satisfactorily placed, leveled and compacted. Payment shall be based on weight tickets for stone delivered and accepted for work. All labor, materials (other than the Crushed Stone), equipment, and excavation shall be incidental to the placement of Crushed Stone.

TECHNICAL SPECIFICATIONS

SECTION 13 - CONCRETE ENTRANCE PAVEMENT

13.1 SCOPE

This Work consists of constructing Concrete Entrances at the locations shown on the Plans, according to Lexington-Fayette Urban County Government Standard Drawings numbers 307, and 307-1 current edition. Work in this section shall also conform to Sections 206, 207, 601, 801, 802, 803, 804, 805, and 823 of the KDOH Standard Specifications, current edition.

Any placing of concrete must be immediately preceded by inspection and approval of the ENGINEER.

Sidewalk within the neat lines of an entrance shall be considered part of the entrance with regard to construction requirements and also measurement and payment. The entire entrance from inside curb edge through the transition to original driveway shall be completed in continuous pour unless approved otherwise by the ENGINEER.

Subgrade shall be thoroughly compacted. Soft or unsuitable subgrade shall be excavated and replaced with compacted No. 57 stone. At the discretion of the Engineer, Contractor shall place a 4" thick subbase of No. 57 stone on top of compacted subgrade and shall strike and mechanically compact the stone to produce a uniform flat surface.

Work for this section shall include all labor, materials, equipment, excavation, and incidentals necessary to complete the Work.

13.2 PAYMENT

Accepted quantities for 6 inch Concrete Entrance Pavement shall be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per square yard of Concrete Entrance Pavement satisfactorily placed. Measurement for entrance pavement will extend to back edge of curb. All labor, materials, equipment, subgrade compaction, excavation and backfill shall be incidental to the placement of Concrete Entrances.

Accepted quantities for No. 57's will be paid for at the respective Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per ton of Crushed Stone satisfactorily placed, leveled and compacted. Payment shall be based on weight tickets for stone delivered and accepted for work. All labor, materials (other than the Crushed Stone), equipment, and excavation shall be incidental to the placement of Crushed Stone.

TECHNICAL SPECIFICATIONS

SECTION 14 - SIDEWALK RAMPS

14.1 SCOPE

This Work consists of the construction of Sidewalk Ramps on a thoroughly compacted subgrade in accordance with the Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government (LFUCG) Standard Drawings numbers 304-306 current edition. Work in this section shall also conform to Sections 206, 207, 601, 801, 802, 803, 804, 805, and 823 of the Kentucky Department of Highways (KDOH) Standard Specifications, current edition, but only to the extent that these KDOH sections do not conflict with the content of the Plans, Contract Documents and Specifications, and LFUCG Standard Drawings.

Expansion joint material shall be of approved quality and of one-half (1/2) inch thickness. Expansion joints shall extend entirely and continuously through the concrete, and all excess expansion joint material shall be trimmed to conform to the surface of the concrete.

Concrete shall be sufficiently vibrated to assure removal of air voids. Concrete shall be struck off by use of a screed, floated and brushed. Edges and division marks shall be finished in a neat and workmanlike manner through use of the proper concrete finishing tools. Division joints in sidewalks shall be three-fourths (3/4) inch in depth, at four foot intervals. All concrete used shall be Class A concrete on which Type 2 (white pigmented) curing compound is used. Any pouring of concrete must be immediately preceded by inspection and approval of ENGINEER.

When it is necessary to replace portions of existing concrete sidewalks and entrance pavements, such existing features will be removed to the nearest transverse joint or division mark beyond the matching point indicated on the Plans. The existing concrete shall be sawed by an approved concrete saw. In the absence of a transverse joint or division mark, the sawing shall be performed as directed by the ENGINEER. It will not be permissible to place new concrete against the ragged edges of concrete caused by removal devices such as hand tools and air hammers or caused by breaks.

Work for this section shall include all labor, materials, equipment, excavation, and incidentals necessary to complete the Work.

LFUCG will provide the tactile warning tile for fresh concrete placement and the CONTRACTOR will install per unit price for Detectable Warning Tile Installed. Per Section 55 of these Specifications.

14.2 PAYMENT

Accepted quantities for Sidewalk Ramps will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per square yard satisfactorily placed. All labor, materials, equipment, subgrade compaction, excavation and backfill shall be incidental to the placement of Sidewalk Ramps.

TECHNICAL SPECIFICATIONS

SECTION 15 – HEADER CURB AND CURB AND GUTTER

15.1 SCOPE

This Work consists of the construction of Header Curb and/or Curb and Gutter on a thoroughly prepared subgrade in accordance with the Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government Standard Drawing, number 301, current edition. Work in this section shall also conform to Sections 206, 207, 601, 801, 802, 803, 804, 805 and 823 of the Kentucky Department of Highways (KDOH) Standard Specifications, current edition, but only to the extent that these KDOH sections do not conflict with the content of the Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government Standard Drawings.

Any placing of concrete must be immediately preceded by inspection and approval of the ENGINEER.

Work for this section shall include all labor, materials, equipment, excavation, and incidentals necessary to complete the Work.

15.2 PAYMENT

Accepted quantities for Header Curb and/or Curb and Gutter Type 1 or Type 4 will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per linear foot, satisfactorily placed. Header Curb and/or Curb and Gutter, Type 1 or Type 4, will be paid at the Unit Price across all entrances. All labor, materials, equipment, subgrade compaction, excavation and backfill shall be incidental to the placement of concrete Header Curb and/or Curb and Gutter, Type 1 or Type 4.

TECHNICAL SPECIFICATIONS

SECTION 16 - BITUMINOUS PAVEMENT MILLING AND TEXTURING

16.1 SCOPE

Work for this Section shall conform to the Kentucky Department of Highways Standard Specifications, Section 408, current edition and shall include all labor, materials, equipment, incidentals necessary to complete Work, including disposal of all resultant cuttings.

16.2 BASIS OF PAYMENT

Accepted quantities for Bituminous Pavement Milling and Texturing will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per ton of Bituminous Pavement Milling and Texturing satisfactorily completed. All labor, materials, and equipment, hauling and disposal shall be incidental to the Milling and Texturing of Bituminous Pavement.

Unless otherwise agreed upon, tonnage shall be based on the measured volume [(SY) of the milled surface times the depth (in)] times 110 lbs/S.Y./in of depth. (Density is per Exhibit 1000-02 of the *Kentucky Highway Design Manual*, Jan 2006)

TECHNICAL SPECIFICATIONS

SECTION 17 - BITUMINOUS BASE

17.1 SCOPE

This Work consists of the construction of a bituminous base in accordance with the Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government (LFUCG) Standard Drawings, current edition. Work in this section shall also conform to the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, Sections 401, 402 and 403 of the Current Edition and associated cross references, but only to the extent that these KDOH sections do not conflict with the content of these Plans, Contract Documents and Specifications, and LFUCG Standard Drawings.

17.2 BASIS OF PAYMENT

Accepted quantities for Bituminous Base will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per ton of Bituminous Base satisfactorily placed. No direct measurement shall be made. Payment shall be based on weight tickets for bituminous base delivered and accepted for work. All labor, miscellaneous materials, equipment, and compaction shall be incidental to the placement of Bituminous Base.

TECHNICAL SPECIFICATIONS

SECTION 18 - CLASS I BITUMINOUS SURFACE

18.1 SCOPE

This Work consists of the construction of a bituminous concrete surface in accordance with the Plans, Contract Documents and Specifications, and Lexington-Fayette Urban County Government (LFUCG) Standard Drawings, current edition. Work in this section shall also conform to Sections 207, 601, 602, 801, 802, 803, 804, 805, 806, 807, 811, 812, 813, 823, 828, and 844 of the KDOH Standard Specifications, current edition and associated cross references, but only to the extent that these KDOH sections do not conflict with the content of these Plans, Contract Documents and Specifications, and LFUCG Standard Drawings.

Generally, the new bituminous surface shall be KDOH Class 1 0.38D PG64-22. All areas to be paved shall be cleaned before paving operations commence. Any small areas to be repaired and paved shall be sawcut a minimum of two (2") inches deep (unless otherwise specified by the ENGINEER) and to a width as specified by the ENGINEER.1 before placement of the new adjacent bituminous pavement.

A bituminous tack coat shall be applied to all old or trafficked pavement, sawcut edges, any concrete base course, and to other bituminous or concrete pavements or surfaces, horizontal or vertical, where any new bituminous pavement material will be placed. A joint sealant, Flexmaster Pourable Crack Sealant 1109 or approved equal will be used at all joints between any new pavement and any existing pavements.

The minimum depth of the new bituminous surface course for street paving shall be (1½") inches and for driveway overlays two (2") inches.

18.2 PAYMENT

Accepted quantities of Bituminous Concrete Surface will be paid for at the Contract Unit Price per Ton as quoted in the Bid Schedule and shall be full compensation for all Work required under this section. No direct measurement shall be made. Payment will be based on weight tickets for Bituminous Concrete Surface delivered and accepted for the Work. Any water used to ensure that the pavement surface is draining is incidental to Bituminous Concrete Surface. All labor, materials, equipment, excavation, joint sealant, placement and compaction of the bituminous mix, incidentals and any other items necessary to complete the Work of this Section shall be incidental to the placement of the Bituminous Concrete Surface.

Payment for application of tack coat will be paid per Section 19 of these Specifications.

TECHNICAL SPECIFICATIONS

SECTION 19 – BITUMINOUS MATERIAL FOR TACK

19.1 SCOPE

This Work shall consist of the use of bituminous material for tack in accordance with the Plans, Contract Documents and Specifications. Work in this section shall also conform to the Kentucky Department of Highways (KDOH) Standard Specifications, Section 406, of the current edition and associated cross references, but only to the extent that these KDOH sections do not conflict with the content of these Plans, Contract Documents and Specifications, and LFUCG Standard Drawings.

Application of bituminous tack coat will be applied to old material surfaces, curb contact, cold base surfaces and as otherwise directed by the Engineer.

If tack coat will be subject to traffic, a sand blotter shall be used in accordance with KDOH Standard Specifications for Road and Bridge Construction, Section 406 current edition.

19.2 BASIS OF PAYMENT

Payment for the accepted quantity will be made at the unit bid price per ton, which payment shall be full compensation for all Work required by this section. Payment will be based on weight tickets for Bituminous Material for Tack delivered and accepted for the Work.

TECHNICAL SPECIFICATIONS

SECTION 20 - SURFACE INLET

20.1 SCOPE

Work for this Section shall include all labor, excavation, materials, equipment, and incidentals necessary to construct Type "A", and "B" surface inlets as specified in the Purchase Order in accordance with the Lexington-Fayette Urban County Government Standard Drawings numbers 120 and 121 and shall conform to Kentucky Department of Highway Standard Specifications, Section 601, 602 and 710.

20.2 BASIS OF PAYMENT

Accepted quantities for Surface Inlets will be paid for at the Contract Unit Price as quoted for each type (which shall be full compensation for all Work under this Section) and paid per specified Surface Inlet satisfactorily placed. All labor, materials, equipment, and excavation shall be incidental to the placement of Surface Inlets.

TECHNICAL SPECIFICATIONS

SECTION 21 – CURB AND DROP BOX INLET

21.1 SCOPE

Work for this Section shall include all labor, excavation, materials, equipment, and incidentals to construct LFUCG Type "A", "B", "C", and "D" Curb Box Inlets, KDOH type "B" Curb Box Inlet, and/or Type "13" and "16" Drop Box Inlets as specified in the Purchase Order in accordance with the Lexington-Fayette Urban County Government Standard Drawings Numbers 122-125, KDOH Standard Drawings RDB 013-06 through RDB 019-03 (7 dwgs total) and RDB 030-03 through RDB 035-03 (6 dwgs total), RDB 280-05 through RDB 282-03 (3 dwgs total), and shall conform to Kentucky Department of Highway Standard Specifications, Section 601, 602 and 710.

21.2 BASIS OF PAYMENT

Accepted quantities for Curb Box and/or Drop Box Inlets will be paid for at the Contract Unit Price as quoted for each type (which shall be full compensation for all Work under this Section) and paid per specified Curb Box and/or Drop Box Inlet satisfactorily placed. All labor, materials, equipment, and excavation shall be incidental to the placement of Curb Box and/or Drop Box Inlets.

TECHNICAL SPECIFICATIONS

SECTION 22 - MANHOLE CONSTRUCTION

22.1 SCOPE

Work for this Section shall consist of manhole construction for manholes less than eight feet zero inches (8'0") deep. Manholes greater than eight feet zero inches (8'0") deep shall be paid for as eight feet zero inches (8'0") manholes plus the additional vertical depth at the Contract Unit Price quoted.

At the option of the CONTRACTOR, manholes shall be constructed of precast concrete manhole rings. Manholes shall be constructed to conform to Lexington-Fayette Urban County Government Standard Drawings 100-105 (storm) and 210-217, 220 and 222 (sanitary), unless otherwise noted or directed by the ENGINEER. Bases for manholes shall be poured in place using Class "A" concrete and shall have a minimum thickness of eight inches (8"). Field poured bases (doghouse manholes) shall only be allowed with prior approval of LFUCG. If no special instructions are given on the plans and precast manholes are used, the 6" overhang in the base section shown on the drawings shall not be required.

Dimensions for the placement of Manholes be as specified by the Purchase Order.

22.2 MATERIALS

22.2.1 Precast Concrete Rings: Precast concrete rings for manholes shall conform to ASTM Standard Specifications C-76, Class II, Wall B, with a minimum concrete strength of 4,000 psi, except that rings for manholes over twelve (12) feet deep shall be Class III. Rings shall be of the tongue and groove type. New or replacement manholes shall be sized such that a 6" ring is installed to permit future height adjustment in either direction. Brick leveling courses shall not be used under any circumstances.

22.2.2 Precast Concrete Cones: Precast concrete cones shall be of the size and shape shown on the plans and shall conform to the ASTM Standard Specification C-76 for the reinforced concrete sewer pipe, Class II and as specified above for Precast Concrete Rings.

22.2.3. Sealant for Concrete Rings: Con seal or its equal shall be used as sealant. If mortar is used, it shall be composed of one part Portland Cement and two parts sand, to which a small amount of hydrated lime putty, not to exceed ten (10) pounds per bag of cement, may be added.

22.2.4 Manhole Steps: Manhole steps shall be asphalt coated cast iron or polypropylene plastic coated steel rod or of a type and size approved by the ENGINEER.

21.2.5 Manhole Frames and Covers: The Standard Manhole casting shall consist of 7" cast iron frames and 22-3/4 inch diameter covers weighing not less than 320 pounds for frame and cover, dimensioned as shown on the plans unless otherwise noted. When used

the manhole adjustable frames shall be set at their lowest adjusted level. CONTRACTOR shall not use adjusters to match grade. Manhole covers must set neatly in the rings with contact edges machined for even bearings and tops set neatly in the rings with contact edges machined for even bearings and tops flush with ring edge. They shall have sufficient corrugations to prevent slipperiness and be marked in large letters, "SANITARY" or "STORM SEWER, LEXINGTON, KENTUCKY". The lids shall have two pick holes about 1-1/2 inches wide and 1/2-inch deep with 3/8-inch undercut all around. They shall be equivalent to those manufactured for the Lexington-Fayette Urban County Government by J.R. Hoe and Sons, Middlesboro, Kentucky, and shall be of cast iron conforming to ASTM A-48, Class 35, Gray Iron Castings. The contact surfaces of covers and corresponding rings in the rims shall be machined to provide full perimeter contact.

22.3 CONSTRUCTION METHODS

22.3.1 Width and Depth of Excavation of Structure:

22.3.1.1 Earth Excavation: In excavating for concrete structures, the required width shall be such as to permit forms to be constructed in the proper manner and to permit proper backfilling on completion of the structures. Depth of excavation for base shall be as shown on the Standard Drawings and/or as directed by the ENGINEER to obtain sufficient bearing.

22.3.1.2 Rock Excavation: Rock excavation for structures will be measured between the vertical planes passing eighteen (18) inches beyond the outside of the base and from the surfaces of the rock to the neat lines of the bottoms of the structures or the actual bottom on the rock ledge.

22.3.2 Laying Concrete Rings: Mortar joints shall not be more than 3/8 inch thick horizontally and not less than 3/8 inch wide vertically at the inside face of the manhole.

Precast concrete manhole rings shall be set level and plumb. Joints between sections shall not be less than 3/8 inch thick and the entire joint space between sections shall be completely filled with mastic designed for this purpose or other material approved by ENGINEER.

In sewer manholes, masonry shall be carefully and neatly constructed around the inlet and outlet pipes so that there will be no leakage around the outer surface.

The ENGINEER shall approve materials and techniques used to insure water and/or vacuum tightness.

22.3.3 Manhole Inverts: Manhole inverts shall be formed from Class "A" concrete as shown on the plans. Curved inverts shall be constructed of concrete and shall form a smooth, even, half-pipe section. The inverts shall be constructed when the manhole is being built using prefabricated forms. Changes in direction of flow through the invert shall be made to a true curve with as large a radius as the size of manhole or inlet will

permit. Invert slabs which are situated at depths in excess of 12 feet shall be reinforced per Lexington-Fayette Urban County Government Standard Drawings.

22.3.4. Bases: The excavation shall be kept free of water while the manhole is being constructed. After the foundation has been prepared and has been approved by the ENGINEER, the bottom shall be constructed to the required line and grade. After the bottom has been allowed to set for a period of not less than twenty four (24) hours, the manhole and inlet shall be constructed thereon.

22.3.5. Casting: The cast iron steps shall be included in the wall of the manhole at the proper locations and elevations as the work progresses and shall be securely embedded (per Lexington-Fayette Urban County Government Standard Drawings). The cast iron frame for the manhole cover shall be set at the required elevation and properly anchored. Where manholes are constructed in paved areas, the top surface of the frame and cover shall be tilted to conform to the exact slope, crown and grade of the existing adjacent pavement. Frames shall be in full cement mortar beds or other approved material.

22.3.6 Backfilling: Masonry Work shall be allowed to set for a period of not less than twenty four (24) hours. Outside voids shall be backfilled and compacted in the same manner as provided for backfilling of pipeline trenches. All loose or waste material shall be removed from the interior of the manhole or inlet. The manhole cover or inlet grating then shall be placed and the surface in the vicinity of the Work cleaned off and left in a neat and orderly condition. No back-filling shall be performed until the manhole has been inspected and approved for backfilling by the ENGINEER.

22.3.7 Vacuum Testing for Sanitary Sewer Manholes: All sanitary sewer manholes must pass the application of a vacuum test (ASTM C1244) by the Division of Sanitary Sewers prior to acceptance by the Lexington-Fayette Urban County Government.

22.4 BASIS OF PAYMENT FOR SANITARY AND STORM SEWER MANHOLES

Accepted quantities for Lexington Sanitary and Storm Sewer Manholes will be paid at the Contract Unit Price as quoted for their respective sizes (which shall be full compensation for all Work required under this Section) and paid per specified Sanitary or Storm Sewer Manhole satisfactorily placed. All labor, excavation, materials, and equipment shall be incidental to the construction of manholes from zero (0) to eight (8) feet deep.

22.5 BASIS OF PAYMENT FOR ADJUSTABLE FRAME AND COVER

Accepted quantities for Adjustable Frame and Cover will be paid for at the Contract Unit as quoted (which shall be full compensation for all Work required under this Section) and paid per Adjustable Frame satisfactorily placed. All labor, excavation, materials (other than the Adjustable Frame), and equipment shall be incidental to the installation of Adjustable Frames.

TECHNICAL SPECIFICATIONS

SECTION 23 - MANHOLE - ADDITIONAL VERTICAL DEPTH

23.1 SCOPE

Work for this Section shall include all labor, materials, equipment, additional excavation, and incidentals necessary to construct additional manhole vertical depth beyond eight feet zero inches (8'0") and shall conform to all applicable standards as specified for manhole construction in Section 16 of this Document.

23.2 BASIS OF PAYMENT

Accepted quantities for Additional Vertical Depth will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per vertical foot of Additional Vertical Depth of sanitary or storm sewer manhole satisfactorily placed. All labor, materials, equipment, and excavation shall be incidental to the placement of Additional Vertical Depth for manhole construction.

TECHNICAL SPECIFICATIONS

SECTION 24 - MANHOLE OR CURB BOX INLET TIE-IN

24.1 SCOPE

Work for this Section shall include all labor, excavation, materials, equipment, and incidentals to make connections to existing manholes or curb box inlets where required. The existing manhole and/or curb box inlet shall be drilled and/or sawed in a neat manner to allow for the smoothest connection possible. Once the connection is made, the annulus between the pipe and the structure shall be filled with non-shrink grout and the entire area around the connection shall be filled with cement concrete. No fill shall be placed on the concrete before hardening has occurred.

24.2 BASIS OF PAYMENT

Accepted quantities for Manhole or Curb Box Inlet Tie-Ins will be paid at the Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per Manhole or Curb Box Inlet Tie-In satisfactorily placed. All labor, materials, equipment, and excavation shall be incidental to the placement of Manhole or Curb Box Inlet Tie-in's.

TECHNICAL SPECIFICATIONS

SECTION 25 - STORM SEWER PIPE

25.1 SCOPE FOR RCP (REINFORCED CONCRETE PIPE) STORM SEWER

Work under this Section shall include all labor, excavation, materials, equipment, bedding, backfilling and legal disposal of unneeded and unsatisfactory material at site obtained by CONTRACTOR in accordance to Lexington-Fayette Urban County Government Standard Drawings 100, 102, 103, 104 and 105, and all incidentals necessary to construct Storm Sewer to the sizes and type indicated from zero (0) to eight (8) feet deep. Where the Standard Drawing requires a concrete cap, it shall be constructed according to KDOH Section 501 for consolidated, unfinished concrete.

All RCP is Class III unless noted otherwise.

25.1.1 LAYING

Pipe shall be laid to the line and grade shown on the drawings. Pipe shall be laid with the bell or groove at the upstream end of each section.

25.1.2 JOINING PIPE

The joint design for concrete pipe shall be bell and spigot or tongue and groove. The bell or tongue shall be of confined gasket or single offset spigot configuration to properly contain and seat the rubber gasket. The joint assemblies shall be accurately formed so that when each pipe section is forced together in the trench the assembled pipe shall form a continuous watertight conduit with smooth and uniform interior surface, and shall provide for slight movement of any piece of the pipeline due to expansion, contraction, settlement or lateral displacement. The gasket shall be the sole element of the joint providing water tightness. The ends of the pipe shall be in planes at right angles to the longitudinal centerline of the pipe, except where bevel-end pipe is required. The ends shall be furnished to regular smooth surfaces.

Rubber gasket joints for tongue and groove or bell and spigot pipe using a confined gasket joint shall consist of an O-ring rubber gasket or other approved gasket configuration and shall conform to the requirements of ASTM 361, ASTM C443, ASTM C1619, or ASTM C1628 for the pipe designated.

Rubber gasket joints for tongue and groove or bell and spigot pipe using a single offset joint shall consist of a non-circular rubber gasket or other approved gasket configuration and shall conform to the requirements of ASTM C76 or ASTM 361 for the pipe designated.

Gaskets may be natural rubber, isoprene or neoprene conforming to ASTM C1619.

25.1.4 INSPECTION

All RCP pipe shall be inspected in accordance with Section 26 Internal Inspection of Sewer Pipe: CCTV as directed by the Engineer.

25.2 BASIS OF PAYMENT FOR RCP STORM SEWER

Accepted quantities for RCP Storm Sewer will be paid for at the Contract Unit Price as quoted for various sizes (which shall be full compensation for all work required under this Section) and paid per linear foot of specified RCP Storm Sewer satisfactorily placed. Any removal of pavement and sidewalk and any rock encountered between zero (0) and eight (8) feet shall be paid for under appropriate Bid Items in addition to the Unit Price for RCP storm sewer. Concrete caps shall be paid under the Bid Item for unfinished concrete. Surface restoration (seeding, sod, pavement, etc.) will be paid separately under the appropriate Bid Items and the pay limits for surface restoration shall be in accordance with the appropriate Standard Drawings. Limits of surface restoration will be those limits as shown on the plans.

All labor, materials, equipment, excavation, bedding, disposal and backfilling shall be incidental to the placement of RCP Storm Sewer.

25.3 SCOPE FOR N-12 (HDPE OR PP) STORM SEWER

Work under this Section shall include all labor, excavation, materials, equipment, bedding and backfilling in accordance to the Plans, Contract Documents and Specifications and all incidentals necessary to place N-12 HDPE (high density polyethylene), or N-12 PP (polypropylene) Storm Sewer to the sizes indicated. The CONTRACTOR shall be certified by the pipe manufacturer to install HDPE and PP pipe and provide proof thereof. All pipe delivered to the site shall be certified through the Plastic Pipe Institute (PPI) Third Party Certification program and shall bear the Third Party Administered seal. Adapter, as manufactured by the pipe manufacturer shall be used to connect HDPE pipe with existing pipe of dissimilar material.

25.3.1 Installation

Pipe is to be installed at the required line and grade as indicated on the plans. Once the trench is excavated on line, the pipe bedding should be placed to proper thickness. The top of the bedding should be adjusted to allow for the difference between the plan invert and pipe profile.

25.3.2 Dewatering

Excessive groundwater hinders proper placement and compaction of bedding and backfill. N-12 pipe will float in standing water, therefore, it is imperative that a dry trench be provided. It may be necessary to provide sumps pumps, underdrains or a diversion ditch to insure a dry trench.

25.3.3 Joints and Joint Assembly

All joints are to be installed as per manufacturer's specifications.

25.3.4 Embedment Material

In accordance with manufacturer's recommendations and LFUCG Standard Drawings embedment materials are those used for bedding, haunching and initial backfill and shall consist of #9, #57 or #78 coarse aggregate. All embedment materials shall be free of frozen soil or ice when placed. Additionally, embedment materials shall be placed and compacted at optimum moisture content. Embedment materials shall be specified with consideration given to design loads and the classification and suitability of native soils.

25.3.5 Foundation

A stable foundation must be provided to insure proper line and grade is maintained. Unsuitable foundations must be stabilized at the Engineer's judgment. Unsuitable or unstable foundations may be undercut and replaced with a suitable bedding material, placed in 6" lifts.

25.3.6 Bedding

A stable and uniform bedding shall be provided for the pipe and any protruding features of its joints and/or fittings. The middle of the bedding equal to 1/3 of the pipe diameter OD should be loosely placed, with the remainder compacted to a minimum of 90% standard proctor density.

25.3.7 Haunching

Proper haunching provides a major portion of the pipe's strength and stability. Care must be exercised to insure placement and compaction of the embedment material in the haunches. For larger diameter pipes (>30"), embedment materials should be worked under the haunches by hand. Haunching materials may be #9 or #78 coarse aggregates and must be placed and compacted in 8 inch maximum lifts, compacted to 90% standard proctor density.

25.3.8 Initial Backfill

Initial backfill materials are required in accordance with LFUCG Standard Drawings.

25.3.9 Final Backfill

The final backfill shall be the same material as the proposed embankment. Generally, the excavated material may be used as final backfill. Placement shall be as specified for the embankment. In lieu of a specification, the final backfill shall be placed in 12 inch maximum lifts and compacted to a minimum 85% standard proctor density to prevent excessive settlement at the surface. Compaction shall be performed at optimum moisture content. Backfill beneath paved area shall be as per LFUCG Standard Drawing 201-1.

25.3.10 Manhole Connections

Consideration should be given to the project performance specified when selecting manhole connections. When connecting to concrete manholes or inlets grouting the pipe to the manhole or inlet using non-shrink grout provides a soil tight installation. A gasket placed in a pipe corrugation at the approximate center of the manhole or inlet wall will act as a water stop. This water-stop should provide a silt tight installation. Watertight installations may require flexible rubber connections such as rubber boots or adapters.

When connecting to manholes, insure backfill is placed under the pipe adjacent to the manhole to prevent differential settlement.

25.3.11 Specifications

The following list is a common material, design and performance specifications for N-12 HPDE (high density polyethylene) corrugated pipe. N-12 pipe shall have a smooth interior, and annular exterior corrugations.

AASHTO M-252, AASHTO M-294, AASHTO MP 7-97, AASHTO Sections 12, 18, 30

ASTM F 405, ASTM F 667, ASTM D 2321, ASTM F 477, ASTM 1417

The following list is a common material, design and performance specifications for N-12 PP (polypropylene) corrugated pipe. N-12 pipe shall have a smooth interior, and annular exterior corrugations.

AASHTO T-341, AASHTO R-16, AASHTO MP-21-11, AASHTO HB Section 30

ASTM C969, ASTM C1103, ASTM D2321, ASTM D3212, ASTM F477, ASTM F1417, ASTM F2487, ASTM 2736

25.3.12 Inspection Requirements

25.3.12.1 Visual Inspection

All pipes shall undergo inspection during and after installation to ensure proper performance. Installation of bedding and backfill materials, as well as their placement and compaction, shall be determined to meet the requirements of this section. During the initial phases of the installation process, inspection shall concentrate on detecting improper practice and poor workmanship. Errors in line and grade, as well as any improper assembly or backfill techniques, shall be corrected prior to placing significant backfill or trench fill. Coupling bands shall be properly indexed with the corrugation and tightened, and bell/spigot joints shall be properly assembled to prevent the infiltration of soil fines. Where gaskets are used, they shall be properly seated to prevent groundwater infiltration and should appear uniformly oriented around the pipe. In areas where cracking or joint separation is found, a remediation or replacement plan shall be submitted for approval. Final internal inspections shall be conducted on all buried thermoplastic pipe installations to evaluate issues that may affect long-term performance. Final inspections shall be conducted no sooner than 30 days after completion of installation and final fill. Shallow cover installations shall be checked to ensure the minimum cover level is provided.

Inspection at the appropriate times during installation will detect and allow correction of line and grade, jointing and shape change problems. The timing and number of inspections required will vary with the significance and depth of the installation. The contractor is advised to provide initial inspections himself to avoid problems later on. Racking or flattening of the pipe's

curvature indicates improper backfill placement methods that must be corrected. Slight peaking of the cross-sectional shape should be taken as indicative of achieving proper compaction requirements. Soil consolidation continues with time after installation of the pipe. While 30 days will not encompass the time frame for complete consolidation of the soil surrounding the pipe, it is intended to give sufficient time to observe some of the effects that this consolidation will have. However, occasionally pavement is placed over the pipe sooner than 30 days. While the 30-day time limit should be maintained, a brief inspection of the pipe prior to paving over it, particularly for the first few joints, may be prudent to ensure that good construction practices are being applied. It is recommended that inspection personnel not enter culverts less than 24 in. in diameter. Internal inspection of culverts in this size range is best conducted using video cameras. Culverts should only be entered by inspection personnel trained in working within confined spaces and using procedures in full compliance with applicable State, Local, and Federal OSHA regulations.

25.3.12.2 Installation Deflection

The pipe shall be evaluated to determine whether the internal diameter of the barrel has been reduced more than 5 percent when measured not less than 30 days following completion of installation. Pipes shall be checked for deflection using a mandrel or any other device approved by the Engineer that can physically verify the dimensions of the pipe and is not limited by poor lighting, water flow, pipe length, or other limiting conditions of the installed environment. Pipes larger than 24 in. may be entered and deflection levels measured directly. In all pipe installations, at least 10 percent of the total number of pipe runs representing at least 10 percent of the total project footage on the project shall be randomly selected by the Engineer and inspected for deflection. Also, as determined by the 100 percent visual inspection, all areas in which deflection can be visually detected shall be inspected for deflection. Where direct measurements are made, a measurement shall be taken once every 10 ft. for the length of the pipe, and a minimum of four measurements per pipe installation is required. If a mandrel is used for the deflection test, it shall be a nine (or greater odd number) arm mandrel, and shall be sized and inspected by the Engineer prior to testing. A properly sized proving ring shall be used to check or test the mandrel for accuracy. The mandrel shall be pulled through the pipe with a force not greater than 1,000 lb. For locations where pipe deflection exceeds 5 percent of the inside diameter, an evaluation shall be conducted by the Contractor and submitted to the Engineer for review and approval considering the severity of the deflection, structural integrity, environmental conditions, and the design service life of the pipe. Pipe remediation or replacement shall be required for locations where the evaluation finds that the deflection could be problematic. For locations where pipe deflection exceeds 7.5 percent of the inside diameter, remediation or replacement of the pipe is required.

Inspection criteria is newly added to the specification as there was minimal guidance in the previous specification. Ten percent of each pipe installation shall be defined as 10 percent of the number of pipe runs, and not less than 10 percent of the total length of installed pipe on the project. The requirement of deflection testing 10 percent of each pipe installation is intended to serve as a minimum and does not limit owners from more stringent requirements. The pipe inside diameters should be provided by the pipe manufacturer for every size and type of pipe delivered. If the pipe inside diameter is not provided, or is not available, pipe inside diameter can be developed by averaging the diameters measured at eight equally spaced locations around a section of unloaded pipe for every given size and manufacturer. There are many appropriate methods suitable for measuring deflection, including video inspection equipment, mandrels, and other direct measurement devices. For pipes tested by a mandrel, the mandrel shall be pulled through the entire pipe. Whichever method is used for deflection measurement, a minimum of 10 percent of the total length of installed pipe shall be tested, in addition to any areas that were identified in the visual inspection as having deflection. Installed pipe deflections that exceed 5 percent of the initial inside diameter may indicate that the installation was substandard. Appropriate remediation, if any, will depend upon the severity of the deflection, the condition of the pipe, and evaluation of the factor of safety using section 12, "Buried Structures and Tunnel Liners," of the AASHTO LRFD *Bridge Design Specifications*. Installed pipe deflections that exceed 7.5 percent of the initial inside diameter will require remediation or replacement of the pipe.

25.3.13 Inspection

All HDPE and PP pipe shall be inspected in accordance with Section 26 Internal Inspection of Sewer Pipe: CCTV as directed by the Engineer.

25.4 BASIS OF PAYMENT

Accepted quantities for HDPE and PP Storm Sewer will be paid for at the Contract Unit Price as quoted for various sizes (which shall be full compensation for all work required under this Section) and paid per linear foot of specified HDPE or PP Storm Sewer satisfactorily placed. Any removal of pavement and sidewalk and any rock encountered between zero (0) and eight (8) feet shall be paid for under appropriate Bid Items in addition to the Unit Price for HDPE or HP Storm Sewer. Concrete caps shall be paid under the Bid Item for unfinished concrete. Surface restoration (seeding, sod, pavement, etc.) and CCTV inspection will be paid separately under the appropriate Bid Items. Pay limits for surface restoration shall be in accordance with the appropriate Standard Drawings. Limits of surface restoration will be those limits as shown on the plans.

All labor, materials (other than the HDPE or PP storm sewer), equipment, excavation, bedding, disposal and backfilling shall be incidental to the placement of HDPE or PP Storm Sewer.

TECHNICAL SPECIFICATIONS

SECTION 26 - INTERNAL INSPECTION OF SEWER PIPE: CCTV

26.1 SCOPE:

A CLOSED CIRCUIT TELEVISION (CCTV) survey is required for all newly installed sewer pipe, whether PVC, DIP, RCP, HDPE and/or any designated existing pipe. The television survey shall be performed by an experienced CCTV Contractor approved by the LFUCG Division of Engineering.

The CCTV inspections should be performed by the approved contractor a minimum of thirty (30) days after any new pipe has been backfilled, unless otherwise approved by the Engineer.

26.2 GENERAL:

All lines designated and/or designed by the Engineer shall be internally inspected. The purpose of the inspection is to locate structural damage that may be present in the collection pipe.

Any structural damage found in the pipe impairing the CCTV inspection, shall be documented and the Engineer should be notified immediately. The Engineer and Owner will evaluate the damage and, if cost-effective, the Engineer will notify the Contractor in writing to proceed with cleaning or additional repairs. These repairs will be made at the unit prices shown on the Contractor's Bid Proposal.

The Owner makes no guarantee that all of the sewers to be entered are clear for the passage of a camera. The methods used for securing passage of the camera are to be at the option of the Contractor, and the costs must be included in the bid price for television inspection. The cost of retrieving the television camera, under all circumstances, when it becomes lodged during inspection, shall be incidental to this portion of the work.

26.3 EQUIPMENT:

The CCTV mainline inspection system television shall be one specifically designed and constructed for such inspection. The inspection system shall be able to perform pan/tilt or pan/rotate operations. Lighting for the camera shall be suitable to allow a clear picture for the entire periphery of the pipe. The system shall be operable in 100 percent humidity conditions. The camera, television monitor and other components of the CCTV system shall be capable of producing a minimum 500-line resolution video picture. Picture quality and definition shall be to the satisfaction of the Engineer and if unsatisfactory, equipment shall be removed and no payment made for unsatisfactory inspection.

26.4 RECOMMENDED METHOD FOR INTERNAL INSPECTION:

After thoroughly cleaning the pipe, the camera shall be moved through the sewers in the downstream direction at a uniform rate not to exceed 30 ft./min., stopping when necessary to insure proper documentation of the sewer's condition. Manual winches, power winches, TV cable and power rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions may be used to move the camera through the sewer line.

If during the inspection operation, the television camera will not pass through the entire manhole section, the Contractor shall set up his equipment so that the inspection can be performed from the opposite manhole. If the camera again fails to pass through the entire manhole section, the Contractor shall notify the Engineer of the situation.

26.5 INSPECTION LOGS AND CD/DVDS:

All CD/DVDS, and logs shall be labeled with the Contractors Name, Contract number, DVD number (logs must match that number) and with each Contractor the DVD/ logs must start at number 1 and progress upward till the end of this contract.

A log approved by the Engineer shall be provided for all line inspections listing the watershed, line segment ID, line segment location, upstream manhole depth, downstream manhole depth, lateral connection distance and position, pipe diameter, pipe material, defects and defect ratings, also see notes above. Printed and digital records shall be kept by the Contractor and will clearly show the location of each infiltration point observed during inspection. In addition, other points of significance such as locations of service connections, unusual conditions, roots, storm sewer connections, damaged pipe, presence of scale and corrosion and other discernable features will be recorded and a copy of such records in both hard copy and digital format will be supplied to the Engineer. The digital records must be in a Microsoft Database format (.mdb file extension) or other format approved by the Engineer. A key to all observations used shall be included on each log sheet.

The locations of all the defective areas to be repaired will be identified by logging the distance frame at each defect or point of interest measured from the center of the starting manhole to the plane of focus of the camera. The importance of accurate distance measurements is emphasized. Confirmation of measurement for location of defects shall be above ground by means of a meter device. Accuracy of the distance meter shall be checked by use of a walking meter, roll-a-tape or other suitable device, and the accuracy shall be satisfactory to the Engineer. Marking on the cable or the like, which would require interpolation for depth of manhole, will not be allowed.

The purpose of DVD recording shall be to supply a visual and audio record of problem areas of the lines that may be replayed. DVD recording playback shall be at the same speed that it was recorded. DVDs shall be considered property of the Owner and the Contractor shall possess backup copy of all DVDs until completion of the Contract. All CCTV work done must be recorded on DVD's using the software Visual Pipes, or other approved software. The

Contractor shall supply the LFUCG a licensed (if applicable) copy of said software to view these DVD's.

26.6 FINAL ACCEPTANCE:

Acceptance of this portion of work shall be made upon the successful review of the DVD submitted to the LFUCG. If the DVDs are of such poor quality and/or the sewer line needs additional cleaning that the Owner is unable to evaluate the condition of the sewer line or to locate service connections, the Contractor shall be required to re-televis and provide a suitable DVD of the line at no additional cost. If a suitable DVD cannot be provided of such quality that the Owner can review it, no payment shall be made for additional cleaning and/or closed circuit television (CCTV). Also, no payment shall be made for portions of lines not televised or portions where manholes cannot be negotiated with the television camera.

26.7 BASIS OF PAYMENT:

Accepted quantities for Internal Inspection of Storm Sewer Pipe: CCTV will be paid for at the Contract Unit Price as quoted per linear foot (which shall be full compensation for all Work required under this Section) and paid per foot satisfactorily inspected. All labor, cleaning, materials, equipment, and excavation shall be incidental to the Internal Inspection of Storm Sewer Pipe: CCTV.

TECHNICAL SPECIFICATIONS

SECTION 27 - HEADWALLS

27.1 SCOPE

Work for this Section shall conform to Kentucky Department of Highways Standard Specifications for Road and Bridge Construction Section 610 and 710, Current Edition and the Lexington-Fayette Urban County Government Standard Drawings 150, 153, 154-1, 154-2 and 154-3, and shall include all labor, excavation, materials, equipment and necessary incidentals. Drawings for Straight Headwalls 30" and greater will be provided by the ENGINEER.

Dimensions for the placement of Headwalls will be as specified by the Purchase Order.

27.2 BASIS OF PAYMENT

Accepted quantities for Headwalls will be paid for at the Contract Unit Price as quoted for various sizes (which shall be full compensation for all Work required under this Section) and paid per specified Headwall satisfactorily placed. All labor, materials, grates (if required), equipment, and excavation shall be incidental to the placement of Headwalls.

TECHNICAL SPECIFICATIONS

SECTION 28 - IMPACT STILLING BASIN

28.1 SCOPE

Work for this Section shall include all labor, materials, excavations, equipment, and incidentals necessary to construct Impact Stilling Basins for Pipes in accordance with Lexington-Fayette Urban County Government Standard Drawings 164 and 165, and Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, Section 601, 602, 603 and 710 requirements.

Dimensions for the placement of Impact Stilling Basins will be as specified by the Purchase Order.

28.2 BASIS OF PAYMENT

Accepted quantities for Impact Stilling Basins will be paid for at the Contract Unit Price as quoted for various sizes (which shall be full compensation for all Work required under this Section) and paid per specified Impact Stilling Basin satisfactorily placed. All labor, materials, equipment, and excavation shall be incidental to the placement of Impact Stilling Basins.

TECHNICAL SPECIFICATIONS

SECTION 29 - PAVED DITCH

29.1 SCOPE

Work for this Section shall conform to Kentucky Department of Highways Standard Specifications Section 709, Current Edition and the Lexington-Fayette Urban County Government Standard Drawing 132 and shall include all labor, excavation, materials, equipment and incidentals necessary to complete the Work.

Dimensions for the placement of a Paved Ditch will be as specified by the Purchase Order.

29.2 BASIS OF PAYMENT

Accepted quantities for Paved Ditch will be paid for at the Contract Unit Price as quoted for various sizes (which shall be full compensation for all Work required under this Section) and paid per square yard of specified Paved Ditch satisfactorily placed. All labor, materials, equipment, and excavation shall be incidental to the placement of Paved Ditches.

TECHNICAL SPECIFICATIONS

SECTION 30 - AGGREGATE CHANNEL LINING FOR SLOPE PROTECTION

30.1 SCOPE

Work under this Section shall be in conformance to Lexington-Fayette Urban County Government Standard Drawings 130-1 and 130-2, for aggregate channel lining and shall include all labor, excavation, materials, equipment, and incidentals necessary to complete the Work. Type I Geotextile fabric shall be required and considered as incidental to the accomplishment of this Work.

30.2 BASIS OF PAYMENT

Accepted quantities for Aggregate Channel Lining will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per ton of Aggregate Channel Lining satisfactorily placed. No direct measurement shall be made. Payment will be based on weight tickets of No.2 stone delivered and accepted for the work. All labor, excavation, materials (other than the aggregate), and equipment shall be incidental to the placement of an Aggregate Channel Lining.

TECHNICAL SPECIFICATIONS

SECTION 31 - SEEDING AND PROTECTION

31.1 SCOPE

Work under this Section shall be in conformance to Kentucky Department of Highways Standard Specifications Section 212, current edition and shall include all labor, materials, equipment, and incidentals necessary to complete the Work. Fertilizer (10-10-10) and agricultural lime will be incorporated into a 3" deep bed and applied at 28 lbs./1,000 sq. ft. and 150 lbs./1,000 sq. ft., respectively. Seeding shall be done with Kentucky Bluegrass only unless specified otherwise in the Purchase Order. Mulching material shall consist of straw or hay in an air-dry condition, and shall be substantially free of noxious weed seeds and objectionable foreign matter. Mulching material shall applied to a loose depth of 1 to 1½ inches.

Finelawn or other turf type fescue, 3 lb/1,000 sq. ft.; add ½ lb of Poa Trivialis for very heavy shade or otherwise customize as directed by ENGINEER. The desires of the owner should be considered. Species currently present should also be considered.

31.2 BASIS OF PAYMENT

Accepted quantities for Seeding and Protection will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per square yard of Seeding and Protection satisfactorily placed. All labor, fertilizer, lime, straw, materials, and equipment shall be incidental to the application of Seeding and Protection.

TECHNICAL SPECIFICATIONS

SECTION 32 - SODDING

32.1 SCOPE

Work under this Section shall be in conformance to Kentucky Department of Highways Standard Specifications Section 212 and shall include all labor, materials, equipment, and incidentals necessary to complete the Work. Fertilizer (10-10-10) and agricultural lime will be incorporated into a 3" deep sod bed and applied at a rate of 28 lbs./1,000 sq. ft. and 100 lbs./1,000 sq. ft., respectively. Sodding shall be done with Kentucky Bluegrass, Fescue, or other species approved by the ENGINEER and available at the time of placement. Sod shall be kept moist for a minimum of two weeks. The desires of the owner and the species currently being used should be considered.

32.2 BASIS OF PAYMENT

Accepted quantities for Sodding will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work under this Section) and paid per square yard of Sodding satisfactorily placed. All labor, materials (other than the sod), and equipment shall be incidental to Sodding.

TECHNICAL SPECIFICATIONS

SECTION 33 - GABION MATTRESS CHANNEL LINING

33.1 SCOPE

Work for Gabion Mattress Channel Lining including Type I geotextile fabric shall conform to Kentucky Department of Highways Standard Specifications Section 613 and 813.13, current edition and the Lexington-Fayette Urban County Government Standard Drawing 131, and shall include all labor, excavation, materials, equipment and incidentals necessary to complete the Work.

33.2 BASIS OF PAYMENT

Accepted quantities respectively for Gabion Mattress Channel Lining will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under this Section) and paid per cubic yard of stone satisfactorily placed and contained within the gabion wire baskets. Payment shall be based on weight tickets for stone delivered and accepted for the work. All labor, materials, equipment, and excavation shall be incidental to the placement of Gabion Mattress Channel Linings.

TECHNICAL SPECIFICATIONS

SECTION 34 – HIGH DENSITY POLYETHYLENE PERFORATED PIPE

34.1 SCOPE

The Work consists of furnishing and installing High Density Polyethylene Perforated Pipe at depths of zero (0) to four (4) feet. Work for this Section shall conform to Kentucky Department of Highways Standard Specifications for Road and Bridge Construction, Sections 704 and associated cross references, Current Edition and to Lexington-Fayette Urban County Government Standard Drawings 320, 320-1, 321, and 322, and shall include all labor, materials, equipment, and incidentals necessary to complete the Work, using only polyethylene perforated pipe.

34.2 BASIS OF PAYMENT

Accepted quantities for 4" and 6" High Density Polyethylene Perforated Pipe with incidental geotextile fabric, aggregate cover, and bedding will be paid for at the Contract Unit Price as quoted (which shall be full compensation for all Work required under Section) and paid per linear foot of Polyethylene Perforated Pipe satisfactorily placed at a depth of four (4) feet. All labor, materials, and equipment shall be incidental to the placement of Polyethylene Perforated Pipe.

For High Density Polyethylene Perforated Pipe at depths greater than four (4) feet additional pay items such as materials, stone and excavation will be paid separately.

TECHNICAL SPECIFICATIONS

SECTION 35 - SANITARY SEWER

35.1 SCOPE

Work under this Section shall be of the size indicated and shall include all service, labor, materials, and equipment involved in performing the various tasks necessary to construct the Gravity Sanitary Sewers described in the plans and specifications in accordance with Lexington-Fayette Urban County Government Standard Drawings 200, 201-1, 201-2 and 204. Such tasks include, but are not limited to, furnishing pipe, excavating trenches (including rock excavating), bedding, laying, jointing, testing, backfilling, connecting to the new manholes, removing existing pipe, connecting existing services, and plugging. Any other necessary incidental tasks shall also be included in Work under this Section.

35.2 PVC (POLYVINYL CHLORIDE PIPE)

PVC Sewer Pipe shall conform to ASTM D-2152, D-2444 and D-3033, or D-3034 and shall have a maximum SDR of 35 (SDR rating shall be per LFUCG Std Dwg. 204). The manufacturers shall submit five (5) copies of certification of tests for each lot of material represented by shipment to the job site.

All pipe shall be marked with the manufacturer's name, production lot number, ASTM Designation, PVC and the nominal diameter.

35.3 JOINTS FOR PVC PIPE

All joints shall be of the elastomeric gasket type and installed per the manufacturer's recommendations. Solvent cement joints shall not be used.

Pipe that has been field cut must be beveled for insertion into gasketed joints. Bevels can be made with hand or power tool. In either case, the finished bevel should be the same as the factory bevel.

35.4 DUCTILE IRON PIPE

Work under this Section shall be performed in accordance with applicable ASTM specifications which include but are not limited to the following:

Ductile iron pipe shall conform to the current requirements of AWWA, C151, Pressure Class 250, with push-on joints unless otherwise noted on drawings.

The interior of the pipe shall be cement-mortar lined with asphalt seal coat in accordance with the current requirements of AWWA C104. Thickness of the lining shall be set forth in Section 4.10.1 of the aforementioned specification unless otherwise directed by the ENGINEER. The exterior of all pipe, unless otherwise specified, shall receive either coal or tar or asphalt base coating a minimum of 1 mil thick.

Each piece of pipe shall bear the manufacturer's name or trademark, the year in which it was produced and the letters "DI" or the word "DUCTILE". Pipe manufacturer shall furnish notarized certificate of compliance to the above AWWA or ANSI specifications.

All ductile iron pipe shall be polyethylene encased. All materials and installation shall be in accordance with AWWA C105. The polyethylene film shall be a minimum of 8 mils for low-density polyethylene film and 4 mils for high-density cross-laminated polyethylene film.

35.5 INTERNAL PIPE DIAMETER

All sewer provided shall have a minimum actual internal diameter which is equal to or greater than diameters indicated on the Contract Drawings.

35.6 EXCAVATION FOR PIPELINE TRENCHES

Unless otherwise directed by the ENGINEER, trenches in which pipes are to be laid shall be excavated in open cut to the depths required by field conditions or as specified by the ENGINEER. In general this shall be interpreted to mean that machine excavation in earth shall not extend below an elevation permitting the pipe to be properly bedded. Excavation shall be in accordance with Lexington-Fayette Urban County Government Standard Drawings and ASTM D-2321.

Excavation shall be undercut to a depth below the required invert elevation that will permit laying the pipe in a bed of granular material to provide continuous support for the bottom quadrant of the pipe. The bedding shall be as set out in the following section.

Trenches shall be constructed according to LFUCG Standard Drawings 200, 201-1 and 201-2. Trenches shall be of sufficient width to provide free working space on each side of the pipe and to permit proper backfilling around the pipe, but unless specifically authorized by the ENGINEER, trenches shall in no case be excavated or permitted to become wider than 2'0" plus the nominal diameter of the pipe at the level of or below the top of the pipe plus 12".

All excavated materials shall be placed a minimum of two feet (2') back from the edge of the trench.

Before laying the pipe, the trench shall be opened far enough ahead to reveal obstructions that may necessitate changing the line or grade of the pipeline.

The trench shall be straight and uniform so as to permit laying pipe to lines and grades given by the ENGINEER. It shall be kept free of water during the laying of the pipe and until the pipeline has been backfilled. Removal of trench water shall be at the CONTRACTOR'S expense. Dry conditions shall be maintained in the excavations until the backfill has been placed. During the excavation, the grade shall be maintained so that it will freely drain and prevent surface water from entering the excavation at all times.

When directed by OWNER, temporary drainage ditches shall be installed to intercept or direct surface water which may affect work. All water shall be pumped or drained from the excavation and disposed of in a suitable manner without damage to adjacent property or to other work.

Minimum cover of 30" shall be provided for all pipeline.

35.7 PIPE BEDDING

All pipe shall be supported in a bed of well compacted #9 crushed stone. Bedding material shall be free from rock, foreign material, frozen earth, and be acceptable to the ENGINEER. In no case shall pipe be supported directly on rock. When rock is encountered in the trench bottom, bedding shall consist of fine gravel or Size #9 crushed stone only. Thickness of crushed stone bedding shall be a minimum 6" below pipe barrel. Pipe bedding is not a separate pay item.

In wet, yielding mucky locations where pipe is in danger of sinking below grade or floating out of line or grade, or where backfill materials are fluid such as flowable fill, movements of the pipe might take place during the placing of the backfill. The pipe must be weighted or secured permanently in place as such means as will provide effective. When ordered by the ENGINEER, yielding and mucky materials subgrades shall be removed below ordinary trench depth in order to prepare a proper bed for the pipe. Crushed stone or other such granular material, if necessary, as determined by the ENGINEER to replace subgrade material, shall be a separate pay item and classified as "Special Pipe Bedding". Removal of poor material is not a separate pay item.

Installation shall be in accordance with Lexington-Fayette Urban County Government (LFUCG) Standard Drawings and ASTM D-2321.

35.8 LAYING PIPE

The laying of pipe in finished trenches shall be commenced at the lowest point so the spigot ends point in the direction of flow.

All pipes shall be laid with ends snugly seated and true to line and grade. Supporting of pipes shall be as set out hereinbefore under Pipe Bedding and in no case shall the supporting of pipes on blocks be permitted.

Before each piece of pipe is lowered into the trench, it shall be thoroughly inspected to ensure it is clean. Each piece of pipe shall be lowered separately unless special permission is given otherwise by the ENGINEER. No piece of pipe or fitting which is known to be defective shall be laid or placed in the lines. If any defective pipe or fitting shall be discovered after the pipe is laid, they shall be removed and replaced with satisfactory pipe or fitting without additional charge. In case a length of pipe is cut to fit in a line it shall be so cut as to leave a smooth end at right angles to the longitudinal axis of the pipe. Throughout the pipe laying process, special attention shall be given to keeping the inside of the pipe free of dirt or rock.

Pipe shall not be laid on solid rock. A pad of granular material as specified in Pipe Bedding shall be used as a pipe bedding. Pipe bedding is not a separate pay item. Irregularities in subgrade in an earth trench shall be corrected by use of granular material.

When ordered by the ENGINEER, unsuitable materials in subgrades shall be removed below ordinary trench depth in order to prepare a proper bed for the pipe.

When laying of pipe is stopped for any reason, the exposed end of such pipe shall be closed with a plywood plug fitting into the pipe bell, so as to exclude earth or other material, and precautions taken to prevent flotation of pipe by runoff or seepage into trench.

No backfilling (except for securing pipe in place) over pipe will be allowed until the ENGINEER has an opportunity to make an inspection of the joints, alignment, and grade in the section laid.

A concrete collar shall be provided where two dissimilar materials meet if a seal can not be made between the existing sanitary sewer and the new Pipe. It shall extend above and below the pipe joint 6" and be 18" in length, minimum.

35.9 BACKFILLING PIPELINE TRENCHES

Backfilling of pipeline trenches shall be accomplished in accordance with Lexington-Fayette Urban County Government Standard Drawings. All backfill shall be placed in a manner approved by the ENGINEER, and those materials requiring compaction shall be carefully compacted to avoid displacement of the pipe. Compaction shall be accomplished by hand-tamping or by approved mechanical methods.

Before final acceptance, the CONTRACTOR will be required to level off all trenches or to bring the trench up to grade. The CONTRACTOR shall also remove from roadways, rights-of-way and/or private property all excess earth or other materials resulting from construction.

In the event that pavement is not placed immediately following trench backfilling in paved areas, the CONTRACTOR shall be responsible for maintaining the trench surface in a level condition at proper pavement grade at all times.

35.10 SETTLEMENT OF TRENCHES

Whenever lines are in, or cross, driveways and streets, the CONTRACTOR shall be responsible for any trench settlement which occurs within these rights-of-way within one year from the time of final acceptance of the work. If paving shall require replacement because of trench settlement within this time, it shall be replaced by the CONTRACTOR at no extra cost to the OWNER. Repair of settlement damage shall meet the approval of the OWNER and/or the Kentucky Department of Highways.