

Contract Documents and Specifications

City of Knoxville, Tennessee

**DOWNTOWN NORTH CENTRAL STREET
PLANTING PROJECT**



Knoxville, Tennessee

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CITY OF KNOXVILLE
INVITATION TO BID

Project: Downtown North Central Street Planting Project

Sealed bids will be received by the City of Knoxville, in Room 667-674, City County Building, 400 Main St., Knoxville, Tennessee, until 11:00:00 a.m., on Friday, August 16, 2019 for the Downtown North Central Street Planting Project. The work consists of landscape installation along Central Street of trees, shrubs, ground cover, and perennials.

Project plans, specifications, and bid packages are attached to the Invitation to Bid on the City of Knoxville's website at www.knoxvilletn.gov/bids.

All bidders must be licensed contractors and must have a Contractor's License Classification BC-29 for Landscaping.

A Pre-Bid Conference will be held at the City of Knoxville Engineering Conference Room, Room 301, 3131 Morris Avenue at 10:00 a.m. on Tuesday, August 6, 2019.

All interested potential bidders are strongly encouraged to view the "Invitation to Bid and Information for Bidders" on the City of Knoxville's procurement website @ www.knoxvilletn.gov/bids.

INFORMATION FOR BIDDERS

Bids will be received by the City of Knoxville, Tennessee (Herein called the "Owner") by the Purchasing Division of the City of Knoxville, acting for the Mayor, in Room 667-674, City County Building, 400 Main Avenue, Knoxville, Tennessee, 37902 until 11:00:00 A.M. on Friday, August 16, 2019, and then at said office publicly opened and read aloud.

Each Bid must be submitted in a sealed envelope, addressed to the Purchasing Division for the City of Knoxville; Room 667-674, City County Building; 400 Main Street; Knoxville, Tennessee 37902. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed to the Owner.

No bid will be received or accepted after the above-specified time for the opening of bids. Bids that arrive late due to the fault of U.S. Postal Service, United Parcel Services, DHL, FEDEX, any delivery/courier service, or any other carrier of any sort are still considered late and shall not be accepted by the City. Such bids shall remain unopened and will be returned to the submitting entity upon request.

All Bids must be made on the required bid form supplied with the Contract documents. All blank spaces for bid prices must be filled in, in ink or typewritten, and the bid form must be fully completed and executed when submitted. Only one copy of the bid form is required.

All Bidders must be licensed contractors as required by the Contractors Licensing Act of 1994, and all Acts amendatory thereof and must have a BC-29 Landscaping classification. Bidder's name, address, license number, date of expiration of license, and that part of the license classification applying to the Bid must be placed on the sealed envelope containing the bid. Prior to submitting their bids, bidders are to be registered with the Purchasing Division through the City of Knoxville's online Vendor Registration system. Instructions for registering on-line are available at www.knoxvilletn.gov/purchasing. **Bid submissions from un-registered bidders may be rejected.**

If applicable, sub-contractors for electrical work, plumbing work, and HVAC must be shown on the outside of the envelope along with their respective license numbers, expiration date, and classification; where the total cost of the masonry portion of the project exceeds \$100,000 in materials and labor, the license number, expiration date, and classification must be listed on the outside of the envelope for the masonry sub-contractor. The envelope must be plainly marked, "Bid on (project) to be opened on (date) at (time)," otherwise the bid cannot be opened or considered. Any bid envelope which contains the listing of more than one contractor in each classification shall be considered in violation and the bid shall not be opened or considered. These requirements are detailed in Tennessee Code Annotated § 62-6-119 (B), the State of Tennessee, Department of Commerce and Insurance Board for licensing contractors can provide additional information if required.

Any Bid may be withdrawn prior to the above scheduled time for the opening of the 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 ninety (90) days after the actual date of the opening thereof. Should there be reasons why the Contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the Owner and the Bidder.

Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule by

examination of the site and a review of the drawings and Specifications including addenda. After Bids have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done. When discrepancies occur between unit prices and total prices on the Bid Schedule, the total price submitted for each pay item will be maintained and corrections will be made to the unit prices.

The Contract documents contain the provisions required for the construction of the project. Information obtained from an officer, agent, or employee of the Owner or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the Contract.

Inquiries pertaining to this ITB shall be made in writing and be in the hands of the Purchasing Division by the close of the business day on August 9, 2019. Questions can be submitted by letter, fax (865-215-2277), or email to the Assistant Purchasing Agent of the City of Knoxville (powens@knoxvilletn.gov) or City County Building; 400 Main Street; Room 667-674; P.O. Box 1631; Knoxville, TN 37901. The City is not responsible for oral interpretations given by any City employee, representative, or others; and no interpretation of the meaning of the plans, specifications, or other pre-bid documents will be made to any bidder orally. The issuance of written addenda is the only official method whereby interpretation, clarification, or additional information can be given. To be given consideration, such requests/questions must be received at least five (5) business days prior to the date fixed for the opening of bids. 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 posted to the City's website at www.knoxvilletn.gov/bids. Submitting organizations are strongly encouraged to view this website often to see if addenda are posted. 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.

All Bids must be signed in full by the Bidder or Bidders in their business name or style and must show his or their complete address. If the Bidder be a firm or a corporation, the signature shall be a duly authorized member of the firm or officer of the corporation stating his official title or position with such firm or corporation, with the corporate seal attached, attested to by the proper officer. If the Bidder be a firm, the full names and addresses of all members of the firm must be shown. If the Bidder be a corporation, the name of the state under the laws of which it is incorporated must be shown. If the Bid is signed in the name of an agent, legal evidence of his authority to bind his principals must accompany the papers.

All Bids exceeding \$100,000 must be accompanied by a Bidder's Bond equal to 5 percent of the bid price, executed by the Bidder and a surety company authorized to transact business in the State of Tennessee or by a cashier's or certified check on a duly authorized bank made payable to the City of Knoxville, as a guarantee that, if the Bid is accepted, the required Contract will be executed and the required Performance and Payment Bonds furnished. As soon as the bid prices have been compared, the Owner will return the bonds of all except the three lowest responsible Bidders. When the Agreement is executed, the bonds of the two (2) remaining unsuccessful Bidders will be returned. The Bid Bond of the successful Bidder will be retained until the Payment Bond and Performance Bond have been executed and approved, after which it will be returned.

A Performance Bond and a Payment Bond, each in the amount of one hundred percent (100%) of the Contract price, with a corporate surety approved by the Owner, will be required for the faithful performance of the Contract.

Attorneys-in-fact who sign Bid Bonds and Performance Bonds must file with each bond a certified and effective dated copy of their power of attorney.

The party to whom the Contract is awarded will be required to execute the Agreement and obtain the Performance Bond and Payment Bond within fifteen (15) days from the date when notice of award is delivered to the Bidder. The notice of award shall be accompanied by the necessary Agreement and bond forms. In case of failure of the Bidder to execute the Agreement, the Owner may at his option consider the Bidder in default, in which case the Bid Bond accompanying the proposal shall become the property of the Owner.

The Owner within ninety (90) calendar days of receipt of acceptable Performance Bond, Payment Bond, and Agreement signed by the party to whom the Agreement was awarded shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the Owner not execute the Agreement within such period, the Bidder may by written notice withdraw his signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the Owner.

Notice to proceed shall be issued within ninety (90) days of the execution of the Agreement by the Owner. Should there be reasons why the notice to proceed cannot be issued within such period, the time may be extended by mutual agreement between the Owner and Contractor. If the Notice to Proceed has not been issued within the ninety (90) day period or within the period mutually agreed upon, the Contractor may terminate the Agreement without further liability on the part of either party.

The Owner may make such investigations as he 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 Agreement and to complete the work contemplated therein.

Award will be made as a whole to one Bidder. By execution and delivery of a bid submission, the bidder agrees that any additional terms and conditions, whether submitted to the City purposely or inadvertently, shall have no force or effect.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the Contract throughout.

Each Bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the Contract documents. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve any Bidder from any obligation in respect to his Bid.

Further, the Bidder agrees to abide by the requirements under Executive Order No. 11246, as amended, including specifically the provisions of the equal opportunity clause set forth in the General Conditions. Attention is also called to Section 15-26 of the Knoxville City Code, requiring and defining a non-discrimination clause which shall be contained in all Contracts with the City of Knoxville wherein City funds are expended for the purpose of construction, alteration, repair or demolition of any building, street, alley or sewer, or for the providing of any services, and all leases, franchises or concession through which property of the City of Knoxville is to be used.

All bidders must comply with Title VI of the Civil Rights Act of 1964, as codified in 42 U.S.C. 2000 (d). The successful bidder must follow Title VI guidelines in all areas including hiring practices, operating facilities, insurance, and wages. The City of Knoxville reserves the right to review all compliance records by a contract compliance officer designated by the City. The Drug Free Workplace Affidavit form must be submitted with the bid.

The Drug Free Workplace Affidavit, the Non-Collusion Affidavit, the Iran Divestment Act Form, and the Subcontractor/Consultant Statement from the Diversity Business Enterprise Program packet, fully

executed, must be submitted with the bid.

The Contractor shall maintain such insurance as detailed in the General Conditions section of this ITB as will protect him and/or the City from all claims including Workman's Compensation and will save harmless the City from all claims and damages which may arise out of or result from the Contractor's operations under the Contract, whether such operations be by himself or by any subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Certificates of insurance acceptable to the City shall be filed with the City prior to commencement of the work.

The Contract will be awarded with reasonable promptness by written notice to the responsive and responsible Bidder whose Bid is determined to contain the lowest bid price or lowest evaluated bid price in accordance with Section 2-862 of the Knoxville City Code.

The City may waive technicalities concerning bid documents and may follow up with individual organizations after the bid opening to obtain such documents when it is in the best interests of the City. The City of Knoxville reserves the right to waive any informalities or to reject any or all bids, to evaluate bids, and to accept any bid which, in its opinion, may be in the best interest of the City.

BID PROPOSAL
CITY OF KNOXVILLE, TENNESSEE

Downtown North Central Street Planting Project

TO THE PURCHASING DIVISION
CITY OF KNOXVILLE, TENNESSEE

_____ hereby propose(s) to furnish all material, labor, and appliances and do all work required to complete the Contract for the Downtown North Central Street Planting Project, located in the City of Knoxville, Tennessee, in a workmanlike manner and in accordance with the plans and specifications herewith attached.

Bidder further agrees that in case of failure to sign a delivered contract within thirty (30) days, the certified check or bid bond accompanying this bond and the proceeds thereof shall be the property of the City of Knoxville if the City chooses to retain said bid bond or check.

BID SCHEDULE

ITEM NO.	DESCRIPTION	UNITS	TOTAL QUANTITY	PRICE PER UNIT	TOTAL PRICE PER ITEM
1.0	Base Bid	LS	1	\$_____	\$_____
TOTAL BASE BID				\$_____	

TOTAL BASE BID (In Words):

In submitting this bid it is understood that the right is reserved by the City of Knoxville to reject any and all bids. If written notice of the acceptance of this bid is mailed, telegraphed or delivered to the undersigned within ninety (90) days after the opening thereof, or at any time thereafter before this bid is withdrawn, the undersigned agrees to execute and deliver a contract in the prescribed form and furnish the required bond within fifteen (15) days after the contract is presented to him for signature.

Security of the sum of _____ Dollars
(\$ _____), in the form of _____, is submitted herewith in accordance with the Specifications.

The bidder certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid. As used in this certification, the term "segregated facilities" means any waiting room, work areas, rest rooms and wash rooms, restaurants and other eating areas, time-clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment area, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The bidder agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause, and that he will retain such certifications in his files.

Bidder hereby agrees to commence work under this contract on or before a date to be specified in the Notice to Proceed and to fully complete the Project within _____ (____) calendar days thereafter. Bidder further agrees to pay liquidated damages in the sum of two hundred dollars (\$200.00) for each consecutive calendar day thereafter as provided in the General Conditions.

Bidder acknowledges receipt of the following addendum:

The Bidder is prepared to submit a financial and experience statement upon request.

Attached hereto is an affidavit in proof that the undersigned has not entered into any collusion with any person in respect to this proposal or any other proposal. Also attached is a Statement of Bidder's Qualifications.

Date: _____, 20____ _____
Name of Bidder

State License No: _____ By

Tax ID Number: _____ Title

Official Address (including Zip Code):

Incorporated under the laws of the State of

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned,

As Principal, and

as Surety, are hereby held and firmly bound unto

_____ as Owner in the penal sum of
_____ for the payment of which, well

and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this _____ day of _____, 20_____.

The condition of the above obligation is such that whereas the Principal has submitted to
_____ a certain Bid, attached hereto and hereby made a part hereof to enter
into a contract in writing for the

NOW, THEREFORE,

- (a) If said Bid shall be rejected, or in the alternate,
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such extension.

IN WITNESS, THEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

_____(L.S.)
Principal

Surety

SEAL

By_____

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____ hereinafter called Principal,

(Corporation, Partnership, or Individual)

and _____

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

(Name of Owner)

(Address of Owner)

hereinafter called Owner, in the penal sum of

_____ Dollars, \$(_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the Owner, dated the _____ day of _____, 20 ____, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to work to be performed thereunder to the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

In Witness Whereof, this instrument is executed in _____
(number)

counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20____.

ATTEST:

(Principal)

(Principal) Secretary
(SEAL)

By _____ (S)

(Witness as to Principal)

(Address)

(Address)

(Surety)

ATTEST:

(Surety) Secretary

(SEAL)

Witness as to Surety

By

Attorney-in-fact

(Address)

(Address)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: 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

(Name of Owner)

(Address of Owner)

hereinafter called Owner, in the penal sum of _____ Dollars,
\$(_____) in lawful money of the United States, for the payment of which sum well and truly to be
made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain
contract with the Owner, dated the _____ day of _____ 20____, a copy of which is
hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms,
subcontractors, and corporations furnishing materials for or performing labor in the prosecution of
the work provided for in such contract, and any authorized extension or modification thereof,
including all amount due for materials, lubricants, oil, gasoline, coal and coke, repairs or machinery,
equipment and tools, consumed or used in connection with the construction of such work, and all
insurance premiums on said work, and for all labor, performed in such work whether by
subcontractor or otherwise, and all taxes, licenses, assessments, contributions, penalties, and interest
thereon, when and if the same may be lawfully due, then this obligation shall be void; otherwise to
remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice to any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20_____.

ATTEST:

Principal

(Principal) Secretary

(SEAL)

By _____(s)

(Address)

Witness as to Principal

(Address)

Surety

ATTEST:

BY _____
Attorney-in-fact

(Surety) Secretary

(SEAL)

Witness as to Surety

(Address)

(Address)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute bond.

CERTIFICATE OF OWNER'S ATTORNEY

I, the undersigned, _____, the

duly authorized and acting legal representative of

_____, do hereby certify as follows:

I have examined the attached contract(s) and surety bonds and the manner of execution thereof, and I am of the opinion that each of the aforesaid agreements has been duly executed by the proper parties thereto acting through their duly authorized representatives; that said representatives have full power and authority to execute said agreements on behalf of the respective parties named thereon; and that the foregoing agreements constitute valid and legally binding obligations upon the parties executing the same in accordance with terms, conditions and provisions thereof.

Date:

NOTICE TO PROCEED

To: _____

Date: _____

Project: _____

Contract No: _____

You are hereby notified to commence work in accordance with Agreement dated _____, 20_____, on or before _____, 20_____, and you are to complete the WORK within _____ calendar days thereafter. The date of completion of all WORK is therefore _____, 20_____.

City of Knoxville
Owner

By _____

Title _____ Contract Manager

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged

by _____,

this the ____ day of _____,

20 ____ .

By

Title

- cc: Contractor
- Law Department
- Finance Department
- Anne Wallace, Deputy Director Policy and Redevelopment
- Natalie Reyes, Contract Manager

CHANGE ORDER

Order No. _____

Date: _____

NAME OF PROJECT: _____

OWNER: _____ City of Knoxville, Tennessee _____

CONTRACTOR: _____

THE FOLLOWING CHANGES ARE HEREBY MADE TO THE CONTRACT DOCUMENTS:

JUSTIFICATION:

CHANGE TO CONTRACT PRICE:

Original Contract Price \$ _____

Current Contract Price adjusted by previous Change Order \$ _____.

The Contract Price due to this Change Order will be (increased) (decreased) by: \$ _____.

The new Contract Price including this Change Order will be \$ _____.

CHANGE TO CONTRACT TIME:

The Contract Time will be (increased) (decreased) by _____ calendar days.

The date for completion of all work will be _____.

All other provisions of document number _____ shall remain in full force and effect.

Requested by (Policy & Redevelopment) _____

Accepted by (Contractor) _____

Approved by (Deputy Director Policy & Redevelopment) _____

Approved by (Director of Finance) _____

Approved as to form (Director of Law) _____

Ordered by (Mayor) _____

DRUG-FREE WORKPLACE AFFIDAVIT

State of

County of

_____, being duly sworn, deposes, and says that:

- (1) He/She is a principal officer of _____, the firm that has submitted the attached Proposal, his or her title being _____ of the firm; and
- (2) He/She has personal knowledge of the policies of the above-named firm with respect to the maintenance of a drug-free workplace; and
- (3) He/She certifies that all provisions and requirements of the Tennessee Drug-Free Workplace Program, as established by Tenn. Code Ann. §§ 50-9-100 et. seq., have been met and implemented.

(Signed)

(Title)

Subscribed and sworn to before me this ____ day of _____, _____.

Title

My Commission expires

IRAN DIVESTMENT ACT

Certification of Noninclusion

NOTICE: Pursuant to the Iran Divestment Act of 2014, Tenn. Code Ann. § 12-12-106 requires the State of Tennessee Chief Procurement Officer to publish, using creditable information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105. Inclusion on this list makes a person ineligible to contract with the state of Tennessee; if a person ceases its engagement in investment activities in Iran, it may be removed from the list. A list of entities ineligible to contract in the State of Tennessee Department of General Services or any political subdivision of the State may be found here:

https://www.tn.gov/content/dam/tn/generalservices/documents/cpo/cpo-library/public-information-library/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106_Iran_Divestment_Act_updated_7.7.17.pdf

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to T.C.A. § 12-12-106.

Vendor Name (Printed)	Address
By (Authorized Signature)	Date Executed
Printed Name and Title of Person Signing	

NOTARY PUBLIC:

Subscribed and sworn to before me this _____ day of _____,
2_____.

My commission expires: _____

GENERAL CONDITIONS

GENERAL CONDITIONS

1. Definitions
2. Additional Instructions and Detail Drawings
3. Schedules, Reports, and Records
4. Drawings and Specifications
5. Shop Drawings
6. Materials, Services and Facilities
7. Inspection and Testing
8. Substitutions
9. Patents
10. Surveys, Permits, Regulations
11. Protection of Work, Property, Persons
12. Supervision by Contractor
13. Changes in the Work
14. Changes in Contract Price
15. Time for Completion and Liquidated Damages
16. Correction of Work
17. Subsurface Conditions
18. Suspension of Work, Termination and Delay
19. Payments to Contractor
20. Acceptance of Final Payment as Release
21. Insurance Requirements for Contractors
22. Contract Security
23. Assignments
24. Indemnification
25. Separate Contracts
26. Subcontracting
27. Engineer's Authority
28. Land and Rights-of-Way
29. Guaranty
30. Taxes
31. Traffic Control
32. Job Offices and Other Temporary Buildings
33. Work by Utilities
34. Maintenance
35. Estimate of Quantities
36. Air Pollution and Dust Control
37. Care of Work
38. Tennessee One Call
39. Notice of City Procurement Code Prohibitions
40. Equal Business Opportunity Program
Forms

1. Definitions - Wherever used in the Contract Documents, the following terms shall have the

meanings indicated which shall be applicable to both the singular and plural thereof:

1.1 Abbreviations -

AASHTO	American Association of State Highway and Transportation Officials
ASTM	American Society for Testing and Materials
KUB	Knoxville Utilities Board
TDOTSS	Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction, 2015

1.2 Approved (also "directed," "required," "permitted") shall mean as approved, directed, required or permitted by the Engineer, unless specified otherwise.

1.3 Addenda - Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the Contract Documents, Drawing, and Specifications, by additions, deletions, clarifications or corrections.

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. Included in the Bid Schedule which shall list all items to bid upon, and the total bid price for the Work.

1.5 Bidder - Any person, firm, or corporation submitting a Bid for the Work.

1.6 Bonds - Bid, Performance, and Payment Bonds and other instruments of security, furnished by the Contractor and his surety in accordance with the Contract Documents.

1.7 Change Order - A written order to the Contractor authorizing an addition, deletion or revision in the Work within the general scope of the Contract Documents, or authorizing an adjustment in the Contract Price or Contract Time.

1.8 Contract Documents - The Contract including Advertisement for bids, Information for Bidders, Bid, Bid Bond, Agreement, Payment Bond, Performance Bond, Notice of Award, Notice to Proceed, Change Order, Drawings, Specifications, Addenda, General Conditions, Supplemental General Conditions, and Certificate of Owner's Attorney.

1.9 Contract Price - The total monies payable to the Contractor under the terms and conditions of the Contract Documents.

1.10 Contract Time - The number of calendar days stated in the Contract Documents for the completion of the Work.

1.11 Contractor - The person, firm, or corporation with whom the Owner has executed the Agreement.

1.12 Drawings - The part of the Contract Documents which show the characteristics and scope of

- the Work to be performed and which have been prepared or approved by the Engineer.
- 1.13 Engineer - The Director of Engineering or his duly authorized assistant or representative.
 - 1.14 Field Order - A written order effecting a change in the Work not involving an adjustment in the Contract Price or an extension of the Contract Time, issued by the Engineer to the Contractor during construction.
 - 1.15 Notice of Award - The written notice of the acceptance of the Bid from the Owner to the successful Bidder.
 - 1.16 Notice to Proceed - Written communication issued by the Owner to the Contractor authorizing him to proceed with the work and establishing the date of commencement of the Work.
 - 1.17 Owner - City of Knoxville, Tennessee
 - 1.18 Plans - The approved Plans, profiles, cross-sections, working drawings and supplemental drawings which show the location, character, dimensions, and details of the construction to be performed.
 - 1.19 Project - The undertaking to be performed as provided in the Contract Documents.
 - 1.20 Resident Project Representative - The authorized representative of the Director of Engineering who is assigned to the Project site or any part thereof.
 - 1.21 Shop Drawings - All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, a Subcontractor, manufacturer, supplier or distributor, which illustrate how specific portions of the Work shall be fabricated or installed.
 - 1.22 Specifications - A part of the Contract Documents consisting of written descriptions of a technical nature of materials, equipment, construction systems, standards and workmanship.
 - 1.23 Subcontractor - An individual, firm, or corporation having a direct contract with the Contractor or with any other Subcontractor for the performance of a part of the Work at the site.
 - 1.24 Substantial Completion - That date as certified by the Engineer when the construction of the Project or a specified part thereof is sufficiently completed, in accordance with the Contract Documents, so that the Project or specified part can be utilized for the purposes for which it is intended.
 - 1.25 Supplemental General Conditions - Modifications and Additions to General Conditions as deemed necessary by the Owner or Engineer prior to inclusion in the Contract Documents.
 - 1.26 Suppliers - Any person, supplier, or organization who supplies materials or equipment for the

Work, including that fabricated to a special design, but who does not perform labor at the site.

- 1.27 Work - All labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in the Project.
- 1.28 Written Notice - Any notice to any party of the Agreement relative to any part of this Agreement in writing and considered delivered and the service thereof completed, when posted by certified or registered mail to the said party at his last given address, or delivered in person to said party or his authorized representative on the Work.
2. Additional Instructions and Detail Drawings
 - 2.1 The Contractor may be furnished additional instructions and detail drawings, by the Engineer, as necessary to carry out the Work required by the Contract Documents.
 - 2.2 The additional drawings and instruction thus supplied will become a part of the Contract Documents. The Contractor shall carry out the Work in accordance with the additional detail drawings and instructions.
3. Schedules, Reports, and Records
 - 3.1 The Contractor shall submit to the Owner such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records, and other data as the Owner may request concerning Work performed or to be performed.
 - 3.2 Prior to the first partial payment estimate, the Contractor shall submit schedules showing the order in which he proposes to carry on the Work, including dates at which we will start the various parts of the Work, estimated date of completion of each part and, as applicable:
 - 3.2.1 The dates at which special detail drawings will be required; and
 - 3.2.2 Respective dates for submission of Shop Drawings, the beginning of manufacture, the testing and the installation of materials, supplies and equipment. Each such schedule to be subject to change from time to time in accordance with the progress of the Work.
4. Drawings and Specifications
 - 4.1 The intent of the Drawings and Specifications is that the Contractor shall furnish all labor, materials, tools, equipment, and transportation necessary for the proper execution of the Work in accordance with the Contract Documents and all incidental work necessary to complete the Project in an acceptable manner, ready for use, occupancy or operation by the Owner.
 - 4.2 In case of conflict between the Drawings and Specifications, the Specifications shall govern. Figure dimensions on Drawings shall govern over scale dimensions, and detailed drawings shall govern over general drawings. Anything mentioned in the Specifications and not shown on the Drawings or shown on the Drawings and not mentioned in the Specifications

shall be of like effect as if shown or mentioned in both.

4.3 Any discrepancies found between the Drawings and Specifications and site conditions or any inconsistencies or ambiguities in the Drawings or Specifications shall be immediately reported to the Engineer, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. Work done by the Contractor after his discovery of such discrepancies, inconsistencies or ambiguities shall be done at the Contractor's risk.

5. Shop Drawings

5.1 The Contractor shall provide Shop Drawings as may be necessary for the prosecution of the Work as required by the Contract Documents. The Engineer shall promptly review all Shop Drawings. The Engineer's approval of any Shop Drawing shall not release the Contractor from responsibility for deviations from the Contract Documents. The approval of any Shop Drawing which substantially deviates from the Requirement of the Contract Documents shall be evidenced by a Change Order.

5.2 When submitted for the Engineer's review, Shop Drawings shall bear the Contractor's certification that he has reviewed, checked and approved the Shop Drawings and that they conform to the requirements of the Contract Documents.

5.3 Portions of the Work requiring a Shop Drawing or sample submission shall not begin until the Shop Drawing or submission has been approved by the Engineer.

6. Materials, Services and Facilities

6.1 It is understood that, except as otherwise specifically stated in the Contract Documents, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete and deliver the Work within the specified time.

6.2 Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the Work. Stored materials and equipment to be incorporated in the Work shall be located so as to facilitate prompt inspection.

6.3 Manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.

6.4 Materials, supplies and equipment shall be in accordance with samples submitted by the Contractor and approved by the Engineer.

6.5 The Contractor warrants that he has good title to all materials, supplies, and equipment used by him in the work. Materials, supplies or equipment to be incorporated into the Work shall not be purchased by the Contractor or the Subcontractor subject to a chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller.

6.6 All materials required in the Work may be stored on the site subject to approval by the

Engineer, but all such materials and machinery shall be neatly and compactly stored in such a manner as to cause the least inconvenience to property owners and traffic. All fire hydrants, water and gas shut-off boxes, and other underground utility accesses must be kept free and unobstructed at all times. Proper lighting and signing must be provided to warn the traffic of any obstructions caused by the storage of materials or equipment upon public thoroughfares.

- 6.7 The Contractor shall make his own arrangements for delivery and handling of equipment and materials as he may require for the prosecution of the Work. The location of all temporary lines, roadways and similar facilities shall be subject to the approval of the Engineer and these shall be located and operated so as not to interfere with other work carried on by the Owner or by other Contractors. These temporary power lines, roadways or other facilities which the Contractor furnishes, installs, maintains, and removes may be used by the Owner or other Contractors at such reasonable times as may be directed by the Engineer.
- 6.8 Adequate sanitary facilities shall be provided by the Contractor. All such sanitary facilities shall conform to the requirements of the Tennessee Department of Public Health and the Knoxville-Knox County Health Department.
7. Inspection and Testing
 - 7.1 All materials and equipment used in the construction of the Project shall be subject to adequate inspection and testing in accordance with accepted standards.
 - 7.2 The Contractor shall provide at his expense the necessary testing and inspection services required by the Contract Documents, unless otherwise provided.
 - 7.3 Where mill tests of materials are found necessary by the Engineer to be used for acceptance, the Contractor shall furnish certified copies of such mill tests.
 - 7.4 Where shop equipment performance tests are specified, the Engineer shall be permitted to witness such tests. In the absence of a witnessed test, certified copies of shop tests shall be submitted at the discretion of the Engineer.
 - 7.5 The Owner shall provide all other inspection and testing services not required by the Contract Documents. No payment will be made to the Contractor for samples taken for tests, such as concrete cylinders, etc.
 - 7.6 If the Contract Documents, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any Work to specifically be inspected, tested, or approved by someone other than the Contractor, the Contractor will give the Engineer timely notice of readiness. The Contractor will then furnish the Engineer the required certificates of inspection, testing or approval.
 - 7.7 Neither observations by the Engineer nor inspections, tests or approvals by persons other than the Contractor shall relieve the Contractor from his obligations to perform the Work in accordance with the requirements of the Contract Documents.
 - 7.8 The Engineer and his representatives will at all times have access to the Work. In addition,

authorized representatives and agents of any participating Federal or state agency shall be permitted to inspect all work, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records. The Contractor will provide proper facilities for such access and observation of the Work and also for any inspection, or testing thereof.

- 7.9 If any Work is covered contrary to the written request of the Engineer, it must if requested by the Engineer, be uncovered for his observation and replaced at the Contractor's expense.
- 7.10 If any Work has been covered which the Engineer has not specifically requested to observe prior to its being covered, or if the Engineer considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor at the Engineer's request, will uncover, expose or otherwise make available for observation, inspection or testing as the Engineer may require, that portion of the Work in question, furnishing all necessary labor, materials, tools and equipment. If it is found that such Work is defective, the Contractor will bear all the expenses of such uncovering, exposure, observation, inspection, testing and reconstruction and an appropriate Change Order shall be issued.

8. Substitutions

- 8.1 Whenever a material, article or piece of equipment is identified on the Drawings or Specifications by reference to brand name or catalogue number, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered. The Contractor may recommend the substitution of a material, article, or piece of equipment of equal substance and functions for those referred to in the Contract Documents by reference to brand name or catalogue number and if, in the opinion of the Engineer, such material, article, or piece of equipment is of equal substance and function to that specified, the Engineer may approve its substitution and use by the Contractor. Any cost differential shall be deductible from the Contract Price and the Contract Documents shall be appropriately modified by Change Order. The Contractor warrants that if substitutes are approved, no major changes in the function or general design of the Project will result. Incidental changes or extra component parts required to accommodate the substitute will be made by the Contractor without a change in the Contract Price or Contract Time.

9. Patents

- 9.1 The Contractor shall pay all applicable royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and save the Owner harmless from loss on account thereof except that the Owner shall be responsible for any such loss when a particular process, design, or the product of a particular manufacturer or manufacturers is specified, but if the Contractor has reason to believe that the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the Engineer.

10. Survey, Permits, Regulations

- 10.1 The Owner shall furnish all land surveys and establish all base lines for locating the principal component parts of the Work together with a suitable number of bench marks adjacent to the

Work as shown in the Contract Documents. Unless otherwise specified in the Contract Documents, the Engineer shall furnish the Contractor all lines, profiles, grades and measurements necessary for proper construction of the project. The Contractor's attention is called to the fact that the Engineer will determine what surveying and construction layout is necessary for the Project and that minor measurements incidental to the construction process will be made by the Contractor. Items normally determined as necessary include such things as staking grades and alignment of the roadway, "Blue top stakes", slope stakes, grades and alignments of storm sewers, and staking 50' centerline stations. The Contractor shall notify the Engineer 48 hours in advance of needed construction staking.

- 10.2 The Contractor shall carefully preserve bench marks, reference points and stakes and, in case of willful or negligent destruction by the Contractor, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.
- 10.3 Permits and licenses of a temporary nature necessary for the prosecution of the Work shall be secured and paid for by the Contractor. Permits, licenses and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the Owner, unless otherwise specified. The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the Work as drawn and specified. If the Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Engineer in writing, and any necessary changes shall be adjusted as provided in Section 13, Changes in the Work.
- 10.4 Construction and demolition debris must be disposed of in a state permitted and approved construction and demolition landfill (TDEC Class I, III, or IV).
- 10.5 Debris shall be removed and transported in such a manner that prevents spillage on streets or adjacent areas. Federal, State and local regulations regarding hauling and disposal of waste shall apply.
11. Protection of Work, Property and Persons
 - 11.1 The Contractor will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. He will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the Work and other persons who may be affected thereby, all the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of Construction.
 - 11.2 The Contractor will comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction. He will erect and maintain, as required by the conditions and progress of the Work, all necessary safeguards for safety and protection. He will notify owners of adjacent utilities when prosecution of the Work may affect them. The Contractor will remedy all damage, injury or loss to any property caused, directly or indirectly, in whole or in part, by the Contractor, any Subcontractor or anyone directly or

indirectly employed by any of them or anyone for whose acts any of them may be liable, and not attributable directly or indirectly in whole or in part to the fault or negligence of the Contractor.

- 11.3 In emergencies affecting the safety of persons or the Work or property at the side or adjacent thereto, the Contractor, without special instruction or authorization from the Engineer or Owner, shall act to prevent threatened damage, injury or loss. He will give the Engineer prompt Written Notice of any significant changes in the Work or deviations from the Contract Documents caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved.
- 11.4 In order to protect the lives and health of his employees under the Contract, the Contractor shall comply with all pertinent provisions of the "Manual of Accident Prevention in Construction" issued by the Associated General Contractors of America, Inc., and shall maintain an accurate record of all cases of death, occupational disease and injury requiring medical attention or causing loss of time from work, arising out of and in course of employment on work under the Contract.
- 11.5 The Contractor alone shall be responsible for the safety, efficiency and adequacy of his plant, appliances and methods, and for any damage which may result from their failure or their improper construction, maintenance or operation.
- 11.6 The Contractor shall, at his own expense, shore up and protect any buildings, bridges, or other public or private structures which may be encountered or endangered in the prosecution of the Work, and that may not be otherwise provided for, and he shall repair and make good any damages to such property by reason of his operations. All existing fences which due to prosecution of the Work that were removed shall be replaced by the Contractor. No extra payment will be made for said work or materials unless specified.
- 11.7 Contractor shall repair or replace at his own expense any property pins, bench marks, existing water pipes, sewers, drainage ditches and all plantings including grass that are damaged during construction. The site shall be left in its present condition after all clean up work has been done. Any damage to drainage or water pipes, local sewers, planting including grass, utilities, roads, parking space or other structures, shall be repaired and replaced immediately in the condition found. Such repairs and replacements shall be at the expense of the Contractor.
- 11.8 Contractor will be required, at his own expense, to do everything necessary to support, protect and sustain all sewer, water or gas pipes; service pipes; electric lights; power, telephone or telegraph poles; conduits; and other fixtures laid across or along the site of the Work. The Engineer, as well as the company or corporation owning said poles, pipes or conduits must be notified by the Contractor before any such fixtures are removed or molested. In case any of the said sewer, gas, or water pipes; service pipes; electric lights; power; telephone or telegraph poles; conduits; or other fixtures be damaged, they shall be repaired by the authorities having control of the same, and the expense of said repairs shall be deducted from the monies due or to become due the Contractor under this Contract.

- 11.9 Should it become necessary to temporarily change the position or remove poles, electric conduits, water pipes, gas pipes, or other pipes or wires, the Contractor shall notify the Engineer and company or the corporation owning the said poles, pipes or conduits of the location and circumstances, and shall cease work if necessary until satisfactory arrangements have been made by the owners of the said poles, pipes, conduits or wires to properly care for the same. No claims for damages will be allowed on account of any delay occasioned thereby. The entire cost of such temporary changes or removal must be included in the unit or lump sum prices bid for the various items under this Contract.
- 11.10 Before, during and after installation, the Contractor shall furnish and maintain satisfactory protection to all equipment against injury by weather, flood or breakage, thereby permitting the Work to be left in a perfect condition at the completion of the Contract. No extra payment will be made for this work but the entire cost of the same shall be included in the price bid for the construction of the work done under this contract.
12. Supervision by Contractor
- 12.1 The Contractor will supervise and direct the Work. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The Contractor will employ and maintain on the Work a qualified supervisor or superintendent who shall have been designated in writing by the Contractor as the Contractor's representative at the site. The supervisor shall have full authority to act on behalf of the Contractor and all communications given to the supervisor shall be as binding as if given to the Contractor. The supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the Work.
13. Changes in the Work
- 13.1 The Owner may at any time, as the need arises, order changes within the scope of the Work without invalidating the Agreement. If such changes increase or decrease the amount due under the Contract Documents, or in the time required for performance of the Work, an equitable adjustment shall be authorized by Change Order. All Change Orders must be approved by the Owner and the Engineer.
- 13.2 The Engineer, also, may at any time, by issuing a Field Order make changes in the details of the Work. The Contractor shall proceed with the performance of any changes in the Work so ordered by the Engineer unless the Contractor believes that such Field Order entitles him to a change in Contract Price or Time, or both, in which event he shall give the Engineer Written Notice thereof within fifteen (15) days after the receipt of the ordered change, and the Contractor shall not execute such changes pending the receipt of an executed Change Order or further instruction from the Owner.
- 13.3 No claim for extra work or cost shall be allowed unless the same was done in pursuance of a written order of the Engineer approved by the Owner, and the claim presented with the first estimate after the change or extra work is done. When the Work is performed under the terms of Article 14 of the General Conditions, the Contractor shall furnish satisfactory bills, payrolls and vouchers covering all items of cost and when requested by the Owner, give the Owner access to accounts relating thereto.

14. Changes in Contract Price

14.1 The Contract Price may be changed only by a Change Order. The value of any Work covered by a Change Order or of any claim for increase or decrease in the Contract Price shall be determined by one or more of the following methods in the order of precedence listed below:

- (a) Unit prices previously approved.
- (b) An agreed lump sum.
- (c) The actual cost for labor, direct overhead, materials supplies, equipment, and other services necessary to complete the work. In addition there shall be added an amount to be agreed upon but not to exceed fifteen (15) percent of the actual cost of the Work to cover the cost of general overhead and profit.

15. Time for Completion and Liquidated Damages

15.1 The date of beginning and the time for completion of the Work are essential conditions of the Contract Documents and the Work embraced shall be commenced on a date specified in the Notice to Proceed.

15.2 The Contractor will proceed with the Work at such rate of progress to insure full completion within the Contract Time. It is expressly understood and agreed, by and between the Contractor and the Owner, that the Contract Time for the completion of the Work described herein is a reasonable time, taking into consideration average climatic and economic conditions and other factors prevailing in the locality of the Work.

15.3 If a Contractor shall fail to complete the Work within the Contract Time, or extension of time granted by the Owner, then the Contractor will pay to the Owner the amount for liquidated damages as specified in the Bid for each calendar day that the Contractor shall be in default after the time stipulated in the Contract Documents.

15.4 The Contractor shall not be charged with liquidated damages or any excess cost when the delay in completion of the Work is due to the following, and Contractor has promptly given Written Notice as such delay to the Owner or Engineer.

15.4.1 To any preference, priority or allocation order duly issued by the Owner.

15.4.2 To unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including but not restricted to, acts of God, or of the public enemy, acts of the Owner, acts of another Contractor in the performance of a contract with the Owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and abnormal and unforeseeable weather; and

15.4.3 To any delays of Subcontractors occasioned by any of the causes specified in paragraphs 15.4.1 and 15.4.2 of this article.

16. Correction of Work

- 16.1 The Contractor shall promptly remove from the premises all Work rejected by the Engineer for failure to comply with the Contract Documents, whether incorporated in the construction or not, and the Contractor shall promptly replace and re-execute the Work in accordance with the Contract Documents and without expense to the Owner and shall bear the expense of making good all Work of other Contractors destroyed or damaged by such removal or replacement.
- 16.2 All removal and replacement Work shall be done at the Contractor's expense. If the Contractor does not take action to remove such rejected Work within ten (10) days after receipt of Written Notice, the Owner may remove such Work and store the materials at the expense of the Contractor.
- 16.3 If, in the opinion of the Engineer, it is undesirable to replace any defective or damaged materials or to reconstruct or correct any portion of the Work injured or not performed in accordance with the Contract Documents, the compensation to be paid to the Contractor hereunder shall be reduced by such amount as in the judgement of the Engineer shall be equitable.

17. Subsurface Conditions

- 17.1 The Contractor shall promptly, and before such conditions are disturbed, except in the event of an emergency, notify the Owner by Written Notice of:
- 17.1.1 Subsurface or latent physical conditions at the site, differing materially from those indicated in the Contract Documents; or
- 17.1.2 Unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inhering in Work of the character provided for in the Contract Documents.
- 17.2 The Owner shall promptly investigate the conditions, and if he finds that such conditions do so materially differ and cause an increase or decrease in the cost of, or in the time required for, performance of the Work, and equitable adjustment shall be made and the Contract Documents shall be modified by a Charge Order. Any claim of the Contractor for adjustment hereunder shall not be allowed unless he has given the required Written Notice; provided that the Owner may, if he determines the facts justify, consider and adjust any such claims asserted before the date of final payment.
- 17.3 If the Bidder wishes to make borings for his own use, the Owner will make the site of the Work available to the Bidder to do this exploratory work. Written permission must be obtained from the Engineer before the Bidder begins Work on the site. Cost of such borings shall be at the expense of the Bidder.

18. Suspension of Work, Termination and Delay

- 18.1 The Owner may, at any time and without cause, suspend the Work or any portion thereof for

a period of not more than ninety days or such further time as agreed upon by the Contractor, by Written Notice to the Contractor and the Engineer on which Notice shall fix the date on which Work shall be resumed. The Contractor will resume that Work on the date so fixed. The Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension.

- 18.2 If the Contractor is adjudged a bankrupt or insolvent, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the Contractor or for any of his property, or if he files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or applicable laws, or if he repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or if he repeatedly fails to make prompt payments to Subcontractors or for labor, materials or equipment or if he disregards laws, ordinances, rules, regulations or orders of any public body having jurisdiction of the Work or if he disregards the authority of the Engineer, or if he otherwise violates any provision of the Contract Documents, then the Owner may, without prejudice to any other right or remedy and after giving the Contractor and his surety a minimum of ten (10) days from delivery of a Written Notice, terminate the services of the Contractor and take possession of the Project and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor, and finish the Work by whatever method he may deem expedient. In such case the 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 and indirect costs of completing the Project, including compensation for additional professional services, such excess shall be paid to the Contractor. If such costs exceed such unpaid balance, the Contractor will pay the difference to the Owner. Such costs incurred by the Owner will be determined by the Engineer and incorporated in a Change Order.
- 18.3 Where the Contractor's services have been so terminated by the Owner, said termination shall not affect any right of the Owner against the Contractor then existing or which may thereafter accrue. Any retention or payment of monies by the Owner due the Contractor will not release the Contractor from compliance with the Contract Documents.
- 18.4 After ten (10) days from delivery of a Written Notice to the Contractor and the Engineer, the Owner may, without cause and without prejudice to any other right or remedy, elect to abandon the Project and terminate the Contract. In such case, the Contractor shall be paid for all Work executed and any expense sustained plus reasonable profit.
- 18.5 If, through no act or fault of the Contractor, the Work is suspended for a period of more than ninety (90) days by the Owner or under an order of court or other public authority, or the Engineer fails to act on any request for payment within thirty (30) days after it is submitted, or the Owner fails to pay the Contractor substantially the sum approved by the Engineer or awarded by arbitrators within thirty (30) days of its approval and presentation, then the Contractor may, after ten (10) days from delivery of a Written Notice to the Owner and the Engineer, terminate the Contract and recover from the Owner payment for all Work executed and all expenses sustained. In addition and in lieu of terminating the Contract, if the Engineer has failed to act on a request for payment or if the Owner has failed to make any payment as aforesaid, the Contractor may upon ten (10) days notice to the Owner and the Engineer stop the Work until he has been paid all amounts then due, in which event and upon resumption of the Work, Change Orders shall be issued for adjusting the Contract Price or

extending the Contract Time or both to compensate for the costs and delays attributable to the stoppage of the Work.

- 18.6 If the performance of all or any portion of the Work is suspended, delayed, or interrupted as a result of a failure of the Owner or Engineer to act within the time specified in the Contract Documents, or if no time is specified, within a reasonable time, an adjustment in the Contract Price or an extension of the Contract Time, or both, shall be made by Change Order to compensate the Contractor for the costs and delays necessarily caused by the failure of the Owner or Engineer.
- 18.7 The Owner may terminate this Agreement at any time, with or without cause, by written notice of termination to the Contractor. If the Owner terminates this Agreement, and such termination is not a result of a default by the Contractor, the Contractor shall be entitled to receive as its sole and exclusive remedy the following amount from the Owner, and the Owner shall have no further or other obligations to the Contractor: The amount due to the Contractor for work executed through the date of termination, not including any future costs, profits, or other compensation or payments which the Contractor would have been entitled to receive if the Agreement had not been terminated.
19. Payments to Contractor
 - 19.1 Payment by the Owner to the contractor will be made on a monthly basis. Work performed during the month will be submitted by the Engineer for payment on or before the 10th day of the following month. Payment will then be made by the City of Knoxville Finance Department to the Contractor. The Owner shall retain five (5%) percent of all work covered by the Contract Documents.
 - 19.2 The Contractor may request partial payment for materials and equipment not incorporated in the Work but delivered and suitably stored at or near the site. Such a request shall be accompanied by supporting data, satisfactory to the Owner, as will establish the Owner's title to the material and equipment and protect his interest therein, including applicable insurance.
 - 19.3 All Work covered by payments made shall thereupon become the sole property of the Owner, but this provision shall not be construed as relieving the Contractor of the sole responsibility for the care and protection of the Work upon which payments have been made or the restoration of any damage Work, or as a waiver of the right of the Owner to require the fulfillment of all terms of the Contract Documents.
 - 19.4 Upon completion and acceptance of the Work, the Engineer shall issue a certificate attached to the final payment request that the Work has been accepted by him under conditions of the Contract Documents. The entire balance found to be due the Contractor, including the retained percentages, but except such sums as may be lawfully retained by the Owner, shall be paid to the Contractor within thirty (30) days of completion and acceptance of the Work.
 - 19.5 The Contractor will indemnify and save the Owner or the Owner's agents harmless from all claims growing out of the lawful demands of Subcontractors, laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the Work. The Contractor shall,

at the Owner's request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the Contractor fails to do so the Owner may, after having notified the Contractor, either pay unpaid bills or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor shall be resumed, in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the Owner to either the Contractor, his Surety, or any third party. In paying any unpaid bills of the contractor, any payment so made by the Owner shall be considered as a payment made under the Contract Documents by the Owner to the Contractor and the Owner shall not be liable to the Contractor for any such payments made in good faith.

19.6 No separate payment will be made for any items specified in the General Conditions, Supplementary General Conditions or the General Provision, Payments for such items shall be included in the unit price and lump sum prices bid by the Contractor for items listed in the Bid Schedule.

20. Acceptance of Final Payment as Release

20.1 The acceptance by the Contractor of final payment shall be and shall operate as a release to the Owner of all claims and all liability to the Contractor other than claims in state amounts as may be specifically excepted by the Contractor for all things done or furnished in connection with this Work and for every act and neglect of the Owner and others relating to or arising out of this Work. Any payment, however, final or otherwise, shall not release the Contractor or his sureties from any obligations under the Contract Documents or the Performance Bond and Payment Bonds.

21. Insurance Requirements for Contractors

21.1 Contractor shall at its sole expense obtain and maintain in full force and effect for the duration of the Agreement and any extension hereof at least the following types and amounts of insurance for claims which may arise from or in connection with this Agreement. All insurance must be underwritten by insurers with an A.M. Best rating of A-VIII or better.

21.2 *Commercial General and Umbrella Liability Insurance:* occurrence version commercial general liability insurance, and if necessary umbrella liability insurance, with a limit of not less than \$2,000,000 each occurrence for bodily injury, personal injury, property damage, and products and completed operations. If such insurance contains a general aggregate limit, it shall apply separately to the work/location in this Agreement or be no less than \$3,000,000.

Such insurance shall:

a. Contain or be endorsed to contain a provision that includes the City, its officials, officers, employees, and volunteers as additional insureds with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. The coverage shall contain no special limitations on the scope of its

protection afforded to the above-listed insureds. Proof of additional insured status up to and including copies of endorsements and/or policy wording will be required.

- b. For any claims related to this project, Contractor's insurance coverage shall be primary insurance as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance programs covering the City, its officials, officers, employees, and volunteers shall be excess of Contractor's insurance and shall not contribute with it.
- c. At the sole discretion of the City, dedicated limits of liability for this specific project may be required.

21.3 *Automobile Liability Insurance:* including vehicles owned, hired, and non-owned, with a combined single limit of not less than \$1,000,000 each accident. Such insurance shall include coverage for loading and unloading hazards. Insurance shall contain or be endorsed to contain a provision that includes the City, its officials, officers, employees, and volunteers as additional insureds with respect to liability arising out of automobiles owned, leased, hired, or borrowed by or on behalf of Contractor.

21.4 *Workers' Compensation Insurance.* Contractor shall maintain workers' compensation insurance with statutory limits as required by the State of Tennessee or other applicable laws and employers' liability insurance with limits of not less than \$500,000. Contractor shall require each of its subcontractors to provide Workers' Compensation for all of the latter's employees to be engaged in such work unless such employees are covered by Contractor's workers' compensation insurance coverage. Such insurance shall include a waiver of subrogation in favor of the City. Proof of waiver of subrogation up to and including copies of endorsements and/or policy wording will be required.

21.5 *Other Insurance Requirements.* Contractor shall:

- a. Prior to commencement of services, furnish the City with original certificates and amendatory endorsements effecting coverage required by this section and provide that such insurance shall not be cancelled, allowed to expire, or be materially reduced in coverage except on 30 days' prior written notice to the City Attorney of Knoxville, P.O. Box 1631, Knoxville, Tennessee 37901. Proof of policy provisions regarding notice of cancellation will be required.
- b. Upon the City's request, provide certified copies of endorsements and policies in lieu of or in addition to certificates of insurance. Copies of policies will only be requested when contracts are deemed to be extremely or uniquely hazardous, include a dollar amount that is significant to the overall budget of the City or a City Department, or the coverage(s) may not follow standard insurance forms. A policy will only be requested after the City's Risk Manager has reviewed the contract and proof of coverage has been provided. Should the certificate of insurance refer to specific coverage wording or endorsement(s), proof of such policy wording or endorsement(s) will be required.

- c. Replace certificates, policies, and endorsements for any such insurance expiring prior to completion of services.
- d. Maintain such insurance from the time services commence until services are completed. Failure to maintain or renew coverage or to provide evidence of renewal may be treated by the City as a material breach of contract.
- e. If Contractor cannot procure insurance through an insurer having an A.M. Best rating of A-VIII, Contractor may, in the alternative, place such insurance with insurer licensed to do business in Tennessee and having A.M. Best Company ratings of no less than A. Modification of this standard may be considered upon appeal to the City Law Director.
- f. Require all subcontractors to maintain during the term of the Agreement Commercial General Liability insurance, Business Automobile Liability insurance, and Workers' Compensation/Employer's Liability insurance (unless subcontractor's employees are covered by Contractor's insurance) in the same manner as specified for Contractor. Contractor shall furnish subcontractors' certificates of insurance to the City without expense immediately upon request.

Any deductibles and/or self-insured retentions greater than \$50,000 must be disclosed to and approved by the City of Knoxville prior to the commencement of services. Use of large deductibles and/or self-insured retentions will require proof of financial ability as determined by the City.

The insurer shall agree to waive all rights of subrogation against the City, its officers, officials, and employees for losses arising from work performed by Contractor for the City. Proof of waiver of subrogation up to and including copies of endorsements and/or policy wording will be required.

All general liability policies must be written on an occurrence basis unless the Risk Manager determines that a claims made basis is reasonable in the specific circumstance. Use of policies written on a claims made basis must be approved by the Risk Manager and retroactive dates and/or continuation dates must be provided to the City prior to commencement of any work performed. Professional Liability and Environmental Liability (Pollution Coverage) are most commonly written on a claims made basis and are generally acceptable in that form.

22. Contract Security

- 22.1 The Contractor shall within fifteen (15) days after the receipt of the Notice of Award furnish the Owner with a Performance Bond and Payment Bond in penal sums equal to the amount of the Contract Price, conditioned upon the performance by the Contractor of all undertakings, covenants, terms, conditions and agreements of the Contract Documents, and upon the prompt payment by the Contractor to all persons supplying labor and materials in the prosecution of the Work provided by the Contract Documents. Such Bonds shall be executed by the Contractor and a corporate bonding company licensed to transact such business in the state in which the Work is to be performed and named on the current list of

"Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The expense of these Bonds shall be borne by the Contractor. If at any time a surety on any such Bond is declared a bankrupt or loses its right to do business in the state in which the Work is to be performed or is removed from the list of Surety Companies accepted on Federal Bonds, Contractor shall within ten (10) days after notice from the Owner to do so, substitute an acceptable Bond (or Bonds) in such form and sum and signed by such other surety or sureties as may be satisfactory to the Owner. The premiums on such Bond shall be paid by the Contractor. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable Bond to the Owner.

23. Assignments

23.1 Neither the Contractor nor the Owner shall sell, transfer, assign or otherwise dispose of the Contract or any portion thereof, or of his right, title or interest therein, or his obligations thereunder, without written consent of the other party.

23.2 In case the Contractor assigns all or any part of any monies due or to become due under this contract, the instrument of assignment shall contain a clause substantially to the effect that it is agreed that the right of the assignee in and to any monies due or to become due to the Contractor shall be subject to prior claims of all persons, firms and corporations for services rendered or materials supplied for the performance of the Work call for in this contract.

24. Indemnification Clause

24.1 Contractor shall defend, indemnify and hold harmless the City, its officers, employees and agents from any and all liabilities which may accrue against the City, its officers, employees and agents or any third party for any and all lawsuits, claims, demands, losses or damages alleged to have arisen from an act or omission of Contractor in performance of this Agreement or from Contractor's failure to perform this Agreement using ordinary care and skill, except where such injury, damage, or loss was caused by the sole negligence of the City, its agents or employees.

24.2 Contractor shall save, indemnify and hold the City harmless from the cost of the defense of any claim, demand, suit or cause of action made or brought against the City alleging liability referenced above, including, but not limited to, costs, fees, attorney fees, and other expenses of any kind whatsoever arising in connection with the defense of the City; and Contractor shall assume and take over the defense of the City in any such claim, demand, suit, or cause of action upon written notice and demand for same by the City. Contractor will have the right to defend the City with counsel of its choice that is satisfactory to the City, and the City will provide reasonable cooperation in the defense as Contractor may request. Contractor will not consent to the entry of any judgment or enter into any settlement with respect to an indemnified claim without the prior written consent of the City, such consent not to be unreasonably withheld or delayed. The City shall have the right to participate in the defense against the indemnified claims with counsel of its choice at its own expense.

24.3 Contractor shall save, indemnify and hold City harmless and pay judgments that shall be rendered in any such actions, suits, claims or demands against City alleging liability

referenced above.

24.4 The indemnification and hold harmless provisions of this Agreement shall survive termination of the Agreement.

25. Separate Contracts

25.1 The Owner reserves the right to let other contracts in connection with this Project. The Contractor shall afford other Contractors reasonable opportunity for the introduction and storage of their materials and the execution of their Work, and shall properly connect and coordinate his Work with theirs. If the proper execution or results of any part of the Contractor's Work depends upon the Work of any other Contractor, the Contractor shall inspect and promptly report to the Engineer any defects in such Work that render it unsuitable for such proper execution and results.

25.2 The Owner may perform additional Work related to the Project by himself, or he may let other contracts containing provisions similar to these. The Contractor will afford the other Contractors who are parties to such Contracts (Or the Owner, if he is performing the additional work himself), reasonable opportunity for the introduction and storage of materials and equipment and the execution of Work, and shall properly connect and coordinate his Work with theirs.

25.3 If the performance of additional Work by other Contractors or the Owner is not noted in the Contract Documents prior to the execution of the Contract, written notice thereof shall be given to the Contractor prior to starting any such additional Work. If the Contractor believes that the performance of such additional Work by the Owner or others involves in additional expense or entitles him to an extension of the Contract Time, he may make claim therefore as provided in Sections 14 and 15.

26. Subcontracting

26.1 The Contractor may utilize the services of specialty Subcontractors on those parts of the Work which, under normal contracting practices, are performed by specialty Subcontractors. Work shall not be awarded to the Subcontractor without prior approval of the Owner.

26.2 The Contractor shall not award Work to Subcontractor(s), in excess of fifty (50%) percent of the Contract Price, without prior written approval of the Owner.

26.3 The Contractor shall be fully responsible to the Owner for the acts and omissions of his Subcontractors, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

26.4 The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the Contractor by the terms of the Contract Documents insofar as applicable to the Work of Subcontractors and to give the Contractor the same power as regards terminating any subcontract that the Owner may exercise over the Contractor under any provision of the Contract Documents.

26.5 Nothing contained in this Contract shall create any contractual relation between any Subcontractor and the Owner.

27. Engineer's Authority

27.1 The Engineer shall act as the Owner's representative during the construction period. He shall decide questions which may arise as to quality and acceptability of materials furnished and Work performed. He shall interpret the intent of the Contract Documents in a fair and unbiased manner. The Engineer will make visits to the site and determine if the Work is proceeding in accordance with the Contract Documents.

27.2 The Contractor will be held strictly to the intent of the Contract Documents in regard to the quality of materials, workmanship and execution of the Work. Inspections may be made at the factory of fabrication plant of the source of material supply.

27.3 The Engineer will not be responsible for the construction means, controls, techniques, sequences, procedures, or construction safety.

27.4 The Engineer shall promptly make decisions relative to interpretation of the Contract Documents.

27.5 The Engineer may appoint inspectors as he desires. An inspector is placed on the Work to keep the Engineer informed as to the progress and manner in which construction is being done, and to assure adherence by the Contractor to the Drawings and Specifications. The inspector will have the authority to reject defective materials and to suspend any construction that is being improperly done, subject to final decision of the Engineer. The inspector will not have the authority to revoke, alter, enlarge or relax the provisions of these conditions, or to issue instructions contrary to Drawings and Specifications.

28. Land and Rights-of-Way

28.1 Prior to issuance of Notice to Proceed, the Owner shall obtain all land and rights-of-way necessary for carrying out and for the completion of the Work to be performed pursuant to the Contract Documents, unless otherwise mutually agreed.

28.2 The Owner shall provide to the Contractor information which delineates and describes the lands owned and rights-of-way acquired.

28.3 The Contractor shall provide at his own expense and without liability to the Owner any additional land and access thereto that the Contractor may desire for temporary construction facilities, or for storage of materials.

29. Guaranty

29.1 The Contractor shall guarantee all materials and equipment furnished and Work performed for a period of one (1) year from the date of Substantial Completion.

- 30. Taxes
 - 30.1 The Contractor will pay all sales, consumer, use and other similar taxes required by the law of the place where the Work is performed.
- 31. Traffic Control
 - 31.1 The Contractor shall submit to the City of Knoxville Traffic Engineer a traffic control plan for the roadways within the project area. The Contractor shall not begin construction until the traffic control plan has been approved by the Traffic Engineer. Flagmen, barricades, signs and traffic control furnished by the Contractor shall conform to the standards established in the latest edition of the "Manual on Uniform Traffic Control Devices," published by the U.S. Department of Transportation. Also refer to the Technical Specifications for Construction Area Traffic Control.
- 32. Job Offices and other Temporary Buildings
 - 32.1 The Contractor shall furnish office space for the Resident Engineer. Space shall be at least 150 square feet in area and shall be located conveniently to the Work. Office shall be furnished with a desk, drafting table, applicable chairs, drawing rack, surveying instrument storage, telephone service, lights, heat, air conditioning, windows and one door with cylinder lock.
 - 32.2 No shanties, camps or buildings for the housing of men employed on the Work shall be erected on land owned or leased by the Owner unless a permit, in writing, is secured from the Engineer allowing their construction. Should permission be asked and granted, the Contractor must comply with all regulations regarding the construction and maintenance of such buildings.
- 33. Work by Utilities
 - 33.1 During the life of the contract, the Knoxville Utility Board Bureau of Water, Bureau of Gas and Bureau of Electricity; BellSouth Telephone Company, Scripps-Howard Cable Television, Traffic Engineering Department, and Service Department may install or adjust their respective utilities in the project area and work shall be performed by the Contractor in cooperation with the Utilities. The Contractor shall be responsible for the coordination of his work with the respective Utility Owner.
 - 33.2 Any costs for relocation of the Utility during construction such as power poles, etc. to facilitate the work of the Contractor for the convenience of the Contractor shall be borne by the Contractor.
- 34. Maintenance
 - 34.1 The Contractor shall undertake to provide reasonable maintenance for those items listed below and cost of said work shall be included in the unit or lump sum prices bid for the

various items of Work under this Contract, and the manner of providing for this work shall meet with the approval of the Engineer:

34.1.1 The Contractor shall make ample provisions for both vehicular and pedestrian traffic on any public road. Effort must be made to minimize by-passing traffic during construction.

34.1.2 The Contractor shall furnish all the necessary equipment, shall take all necessary precautions and shall assume the entire cost of handling any sewage, seepage, storm, surface and flood flows which may be encountered at any time during the construction of the Work.

34.1.3 The Contractor shall lay and maintain temporary driveways, culverts, and crossings, such as in the opinion of the Engineer are necessary to reasonably accommodate the public.

34.1.4 The Contractor will minimize siltation and bank erosion during construction.

34.2 The contractor will be required to restore all street surfaces and utilities damaged by his operations to as good condition as they were previous to the work. He will be required to maintain all improvements, constructed by him, in good condition until they are accepted by the Engineer.

35. Estimate of Quantities

35.1 Wherever the estimated quantities of work to be done and materials to be furnished under this Contract are shown in any of the Contract Documents including the proposal, they are given for use in comparing Bids and the right is especially reserved except as herein otherwise specifically limited, to increase or diminish them as may be deemed reasonably necessary or desirable by the Owner to complete the Work contemplated by this Contract, and such increase or diminution shall in no way vitiate this Contract, nor shall any such increase or diminution give cause for claims or liability for damages.

36. Air Pollution and Dust Control

36.1 The contractor shall comply with all air pollution control rules, regulations, ordinances, and statues which apply to any work performed pursuant to the contract, including any air pollution control rules, regulations, ordinances and statues, specified in the Tennessee Department of Public Health's, "Air Pollution Control Regulations" or any municipal regulations pertaining to air pollution.

36.2 All available precautions shall be taken to control dust. When the Engineer judges dust to be a problem, the Contractor shall control the dust by sprinkling, by applying calcium chloride, or by other methods as directed. Payment for dust control will be made at the applicable contract unit prices for the various items used and said contract unit prices will be full compensation for furnishing all materials, equipment, tools, labor and incidentals required to control dust. No additional compensation will be allowed for any costs incurred due to delays caused by necessary dust control operations.

37. Care of Work

- 37.1 The Contractor expressly undertakes at his own expense:
- a. To clean up frequently all refuse, rubbish, scrap materials and debris caused by his operations, to the end that at all times the site of the Work shall present a neat, orderly and workmanlike appearance;
 - b. Before final payment to remove all surplus material, false work, temporary structures, including foundations thereof, plant of any description and debris of every nature resulting from his operations, and to put the site in a neat, orderly condition;
- 37.2 The Owner expressly disclaims any responsibility for the accuracy or completeness of the information given on the Drawings with regard to existing structures and pipelines and the Contractor will not be entitled to any extra compensation on account of inaccuracy or incompleteness of such information, said structures and pipelines being shown only for the convenience of the Contractor who must verify the information to his own satisfaction. The giving of this information upon the Drawings will not relieve the Contractor of his obligations to support and protect all pipelines and other structures which may be encountered during the construction of the Work and to make good all damages done to such pipelines and structures.
38. Tennessee One Call
- 38.1 The Contractor shall notify Tennessee One Call (1-800-351-1111) 3 working days prior to any excavation in public street right-of-way. This is a requirement of Tennessee state law to protect facilities located within the right-of-way.
39. Notice of City Procurement Code Prohibitions
- 39.1 It shall be unlawful for any employee of the City to participate, directly or indirectly, through decision, approval, disapproval, recommendation, preparation of any part of a purchase request, influencing the content of any specification or purchase standard, rendering of advice, investigation, auditing or otherwise, in any proceeding or application, request for ruling or other determination, claim or controversy or other matter pertaining to any contract or subcontract and any solicitation or proposal therefore, where to the employee's knowledge there is a financial interest possessed by:
- (1) The employee or the employee's immediate family;
 - (2) A business other than a public agency in which the employee or a member of the employee's immediate family serves as an officer, director, trustee, partner or employee; or
 - (3) Any other person or business with whom the employee or a member of the employee's immediate family is negotiating or has an arrangement concerning prospective employment.

39.2 It shall be unlawful for any member of council, member of the board of education, officer or employee of the city to have or hold any interest in the profits or emoluments of any contract, job, work or service, either by himself or by another, directly or indirectly. Any such contract for a job, work or service for the City in which any member of council, member of the board of education, officer or employee has or holds any such interest is void.

39.3 It is unlawful for any person to offer, give or agree to give to any person, while a city employee, or for any person, while a city employee, to solicit, demand, accept or agree to accept from other person, anything of a pecuniary value for or because of:

- (1) Any official action taken, or to be taken, or which could be taken;
- (2) A legal duty performed, or to be performed, or which could be performed; or
- (3) A legal duty violated, or to be violated, or which could be violated by such person while a City employee.

Anything of nominal value shall be presumed not to constitute a gratuity under this section. It is unlawful for any payment, gratuity or benefit to be made by or on behalf of a subcontractor or any person associated therewith as an inducement for the award of a subcontract or order.

DIVERSITY BUSINESS ENTERPRISE (DBE) PROGRAM

The City of Knoxville strongly encourages prime contractors to employ diverse businesses in the fulfillment of contracts/projects for the City of Knoxville.

The City of Knoxville's Fiscal Year 2019 goal is to conduct 4.03% of its business with minority-owned businesses, 16.3% of its business with women-owned businesses, and 39.77% with small businesses.

While the City cannot engage (pursuant to state law), in preferential bidding practices, the city does **strongly encourage** prime contractors to seek out and hire diverse businesses in order to help the city meet its goals as stated above. As such, the City encourages prime contractors to seek out and consider competitive sub-bids and quotations from diverse businesses.

For DBE tracking purposes, the City requests that prime contractors who are bidding, proposing, or submitting statements of qualifications record whether or not they plan to employ DBE's as sub-contractors or consultants. With that in mind, please fill out, sign and submit (with your bid/proposal) the following sub-contractor/consultant statement.

Subcontractor/Consultant Statement
(TO BE SUBMITTED IN THE BID/PROPOSAL ENVELOPE)

We _____ do certify that on the
(Bidder/Proposer Company Name)

_____ do certify that on the
(Project Name)
(\$ _____)
(Amount of Bid)

Please select one:

Option A: Intent to subcontract using Diverse Businesses

A Diversity business will be employed as subcontractor(s), vendor(s), supplier(s), or professional service(s). The estimated **dollar value** of the amount that we plan to pay is:

\$ _____.
Estimated Amount of Subcontracted Service

Diversity Business Enterprise Utilization			
Description of Work/Project	Amount	Diverse Classification (MOB, WOB, SB, SDOV)	Name of Diverse Business

Option B: Intent to perform work “without” using Diverse Businesses

We hereby certify that it is our intent to perform 100 % of the work required for the contract, work will be completed without subcontracting, or we plan to subcontract with non-Diverse companies.

DATE: _____ COMPANY NAME: _____

SUBMITTED BY: _____ TITLE: _____
(Authorized Representative)

ADDRESS: _____

CITY/STATE/ZIP CODE: _____

TELEPHONE NO: _____

CITY OF KNOXVILLE DIVERSITY BUSINESS DEFINITIONS

Diversity Business Enterprise (DBE's) are minority-owned (MOB), women-owned (WOB), service-disabled veteran-owned (SDVO), and small businesses (SB), who are impeded from normal entry into the economic mainstream because of past practices of discrimination based on race or ethnic background. These persons must own at least 51% of the entity and operate or control the business on a daily basis.

Minority: A person who is a citizen or lawful admitted permanent resident of the United States and who is a member of one (1) of the following groups:

- a. African American, persons having origins in any of the Black racial groups of Africa;
- b. Hispanic American, persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race;
- c. Native American, persons who have origin in any of the original peoples of North America ;
- d. Asian American, person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands.

Minority-owned business (MOB) is a continuing, independent, for profit business that performs a commercially useful function, and is at least fifty-one percent (51%) owned and controlled by one (1) or more minority individuals.

Woman-owned business (WOB) is a continuing, independent, for profit business that performs a commercially useful function, and is at least fifty-one percent (51%) owned and controlled by one (1) or more women.

Service Disabled Veteran-owned business (SDOV) is a continuing, independent, for profit business that performs a commercially useful function, owned by any person who served honorably on active duty in the armed forces of the United States with at least a twenty percent (20%) disability that is service connected. Meaning such disability was incurred or aggravated in the line of duty in the active military, naval or air service, and is at least fifty-one percent (51%) owned and controlled by one (1) or more service disabled veteran.

Small Business (SB) is a continuing, independent, for profit business which performs a commercially useful function and has total gross receipts of not more than ten million dollars (\$10,000,000) average over a three-year period or employs no more than ninety-nine (99) persons on a full-time basis.

SPECIAL CONDITIONS

SPECIAL CONDITIONS

General

All bidders must submit with their bid a non-collusion affidavit as contained in these documents.

Where there appears to be a discrepancy between the Special Conditions and any other part of the Contract documents and Specifications these Special Conditions shall govern.

The Contractors attention is called to the fact that in some instances reference may be made in the Technical Specifications to the 2006 edition of the Tennessee Department of Highway Standard Specifications for Road and Bridge Construction. This reference, if made, is amended to refer to the Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction (TDOTSS) dated January 1, 2015, and any current revisions and special provision thereto.

The City of Knoxville reserves the right to increase or decrease quantities for the items listed in the Bid Proposal and also add or delete from the proposed construction.

Materials Testing and Sampling:

Materials for construction shall be subject to inspection and testing to establish conformance with specifications and suitability for uses intended. All testing, sampling, and inspection of materials, as described below, shall be provided and paid for by the Contractor. All materials testing shall utilize methods as detailed in the technical specifications or as approved by the Engineer. Personnel performing materials testing shall be properly certified and approved by the Engineer. It is the Contractor's responsibility to take said samples to an approved independent laboratory and obtain test results. A minimum of three copies of all test results shall be provided to the Engineer to verify conformance to contract specifications.

The materials testing required by the Contractor shall be as described below:

Grading:

Borrow excavation shall be tested to determine maximum density and optimum moisture content in accordance with AASHTO Designation T 99, Method C. The Engineer will determine the density of the soil in place in accordance with an approved AASHTO method.

Concrete:

Concrete shall be tested for slump, air entrainment, temperature and compressive strength for the first load of concrete delivered on the project. If the first load of concrete does not meet specifications, then each load delivered thereafter will be tested for slump, air entrainment and temperature until the concrete meets specifications. Once the concrete meets

specifications, then it shall be tested for slump, air entrainment, temperature and compressive strength a minimum of every fifth load of concrete delivered or as directed by the Engineer. Compressive strength testing shall consist of four (4) cylinders and tests performed at ages of 7, 28, 28 days and one reserve cylinder. Compressive strength tests shall be in accordance with AASHTO Designation T 22 and T 23. Air entrainment testing shall be in accordance with AASHTO Designation T 152. Slump testing shall be in accordance with AASHTO Designation T 119.

Core Drilling

The City of Knoxville reserves the right to coredrill any pavement section and have the core evaluated for compliance with the appropriate specifications. The cost of such coring and testing shall be borne by the Contractor. These costs to the City of Knoxville shall be deducted from monies earned or to be earned by the Contractor.

Measurement

The Contractor will reconcile each day with the City of Knoxville Project Representative, materials incorporated into construction during that day, or materials shipped to the project and adequately stored and protected for which the Contractor requests payment.

The Contractors attention is specifically directed to Tennessee Code Annotated 47-26-101 Et seq. governing certification and bond of scale operators. The provisions of this code as well as all other Federal, State and City of Knoxville laws, ordinances, rules and regulations that are applicable to the construction of the project shall apply throughout the construction of the project. The City of Knoxville reserves the right to direct the contractors hauling units to a state, city or commercially owned scale to verify weights provided by the Contractor.

Tennessee One Call

Contractor shall notify Tennessee One Call prior to excavation on street right-of-way according to Tennessee State Law (1-800-351-1111).

Title VI Compliance

All bidders must comply with Title VI of the Civil Rights Act of 1964, as codified in 42 U.S.C. 2000d. The successful bidder must follow Title VI guidelines in all areas including hiring practices, open facilities, insurance, and wages. The City of Knoxville reserves the right to review all compliance records by a contract compliance officer designated by the City.

TECHNICAL SPECIFICATIONS

SECTION 32 90 00 - PLANTING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Planting trees, shrubs, ground cover, and perennials.
- B. Anchoring trees.
- C. Provide planting maintenance.
- D. Provide one-year warranty period for all plants.
- E. Providing and placing backfill mix.

1.2 RELATED SECTIONS

- A. Section 329113 Planting Soils

1.3 REFERENCES

- A. Hortus III, 1976, L. H. Bailey Hortorium.
- B. Tree and Shrub Transplanting Manual, E.B. Himelick, 1991, International Society of Arboriculture.
- C. ANSI Z60.1: American Standard for Nursery Stock, latest edition, published by American Nursery & Landscape Association.
- D. ANSI A300: Tree Care Practices, latest edition, published by Tree Care Industry Association

1.4 QUALITY ASSURANCE

- A. Qualification of Landscape Contractor: The work of this Section shall be performed by a landscape contracting firm which has successfully installed a minimum of two projects of a similar quality, schedule requirement, and construction detailing with a minimum of five year's experience.

1.5 JOB CONDITIONS

- A. All areas to be planted shall be inspected by the Landscape Contractor before starting work and any defects such as incorrect grading, inadequate drainage, or improper soils shall be reported to the Contractor prior to beginning this work.

- B. All areas to be planted shall be free of weeds and extraneous debris such as rock or gravel prior to planting.

1.6 SUBMITTALS

- A. Contractor to provide proof of purchase from nurseries to verify plant varieties match those specified on plant schedule.
- B. Contractor to provide images of typical trees showing strong central leader, branching habit, and size.
- C. Substitutions: Submit any plant material substitutions to the Owner listing the botanical name, common name, and size.

1.7 DELIVERABLES

- A. At least 14 days prior to ordering materials, the Landscape Contractor shall provide to the Owner, the following. The Contractor may reject any material that does not meet these Specifications.
- B. Material Sampling and Testing:
 - 1. Planting Mulch: Provide manufacturer's product data.
- C. Provide qualification data for firms indicated in "Quality Assurance" Article, including a list of completed projects.
- D. Provide warranty data for materials indicated in the 'Guarantee' Article of this specification.

PART 2 - PRODUCTS

2.1 PLANT MATERIAL

- A. The Construction Subcontractor shall furnish all plants shown on the PLANT SCHEDULE. No substitutions will be permitted, without written approval by the Contractor.
- B. All plants shall be typical of their species or variety and shall have a normal habit of growth and be legibly tagged with the proper name. Only plant stock grown within Hardiness Zones 1 through 7a, as established by the USDA Plant Hardiness Zone Map, latest edition, will be accepted.
- C. Plants shall be in accordance with ASNS Standards of the American Nursery & Landscape Association. Botanical plant names shall be in accordance with plant designations included in Hortus III.
- D. All deciduous trees shall meet the following standards:
 - 1. All trees shall have a single, straight trunk, be well formed, sturdy and typical for the species and variety.
 - 2. The bark of all trees shall be vigorous and healthy.

3. Pruning scars shall be clean cut and shall leave no protrusion beyond the branch collar.
4. All trees shall have healthy, vigorous leaves or needles of normal size, color, shape, and texture.
5. Deciduous trees shall have seasonal leaf color typical for their species and variety.
6. The height and spread of deciduous shade trees shown on the plant list shall be minimum requirements.
7. No deciduous tree shall be pruned after selection in the nursery.
8. All deciduous trees shall be free of stem-girdling roots.
9. All trees shall have an exposed root flare prior to planting.
10. All trees should be free of recent pruning or heading cuts and have an even distribution of branches within a full crown.
11. All trees shall be dug for a minimum of 4 weeks and a maximum of 52 weeks prior to shipping. Trees dug 4 to 52 weeks prior to shipping are defined as hardened-off. Digging is defined as cutting all roots and lifting the tree out of the ground and either moving it to a new location in the nursery or placing it back into the same hole. Trees that are stored out of the ground shall be placed in a holding area protected from extremes of wind and sun with the root ball protected by covering with mulch or straw and irrigated sufficiently to keep moisture in the root ball above wilt point and below saturation.

F. All shrubs shall meet the following standards:

1. All shrubs shall be healthy and vigorous plants which are very well shaped, heavily branched, densely foliated, and true to form for the variety.
2. Canes or trunk(s) and branches shall be well formed and sturdy, branching uniformly from the ground.
3. No shrub with pest or mechanical damage will be accepted.
4. Shrubs shall show no signs of frost or winter damage to the foliage. Foliage shall not be in a state of drought stress. Leaves or needles shall show no signs of wilt or desiccation due to weather stress at any season of the year.

G. All ground cover plants shall meet the following standards:

1. Ground cover plants shall be of size, container size, age, and condition listed in the plant list and a form true to their species and variety.
2. Plants shall be healthy, free of insects, and diseases.

2.2 ROOT SYSTEMS FOR ALL PLANTS

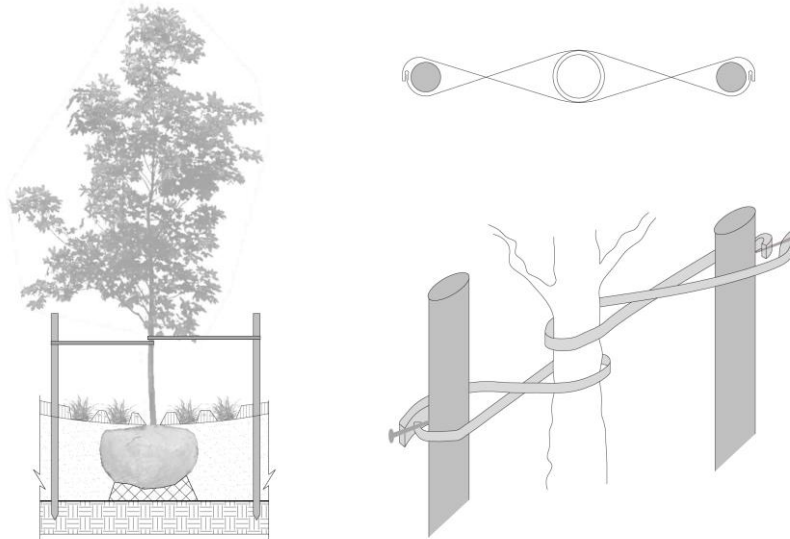
- A. All trees and all shrubs which are not grown in containers must be moved with the root systems as solid units with balls of earth firmly wrapped with untreated 8 ounce natural, biodegradable fabric burlap, firmly laced with stout, natural biodegradable cord or twine. The base of the tree trunks shall be wrapped with a protective burlap layer, surrounded by a cardboard trunk protector, and loosely tied with twine.
- B. Minimum root ball diameters and depths shall be in accordance with ASNS standards.

2.4 PLANTING SOIL MIX

- A. Planting soil mix shall have been pH adjusted according to particular planting applications and improved through the addition of organic matter as directed by the results of the soil tests, the PLANTING SOILS specification section, and the information below. Planting soil shall conform to the following pH levels:
1. Planting soil mix for general planting of non-acid loving plants shall have a true pH value of 6.0 to 7.

2.5 STAKING, GUYING, AND ANCHORING MATERIALS

- A. All trees shall be staked.
- B. Tree staking: See sketches below
1. Two vertical wooden or metal stakes.



2. Arbortie green staking and guying material, flat woven polypropylene material. $\frac{3}{4}$ " wide 900 lb. break strength.
3. Arbortie shall be fastened to stakes in a manner which permits tree movement and supports the tree.

2.6 MULCH

- A. Bark Mulch: Mulch shall be double-shredded high quality, premium bark mulch of hemlock, spruce or pine bark. Mulch shall have been aged for a minimum of six months and not longer than two years. Bark mulch shall be shredded to a uniform size; free of dirt, debris and foreign matter; with pieces no thicker than $\frac{1}{4}$ inch. Mulch must be free of stringy material or chunks over 3 inches in size and shall not contain an excess of fine particles.

2.7 WATER

- A. The Landscape Contractor shall be responsible to furnish his own supply of water to the site at no extra cost. All work injured or damaged due to the lack of water, or the use of too much water, shall be the Landscape Contractor's responsibility to correct. Water shall be free from impurities injurious to vegetation.

PART 3 - EXECUTION

3.1 PLANTING

- A. Furnishing and planting of plant material shall include the digging of planting pits and plant beds, amendment of loam as required to produce planting soil mix, pH adjustment, furnishing the plants, and the labor of planting, fertilizing, and maintenance.
- B. Prior to spreading of topsoil, subgrades shall have been tested to verify that they drain water as noted in the construction plans and specified in the PLANTING SOILS Specification section.
- C. Seasons for Planting:
 - 1. Planting shall only be performed when weather and soil conditions are suitable for planting the materials specified in accordance with locally accepted practice. Plant only during days with temperatures suitable for planting trees, shrubs, groundcover, and perennials.
 - 2. No planting of trees shall occur prior to October 1st. Do not plant trees if soil temperatures drop below 40 degrees.
 - 3. No planting shall take place during extremely hot, dry, windy or freezing weather.
 - 4. Landscape Contractor assumes all responsibility for planting during inclement weather.
- D. Plant Material Inspection:
 - 1. The Owner's Representative may review all plants subject to approval of size, health, quality, character, etc. Review or approval of any plant during the process of selection, delivery, installation and establishment period shall not prevent that plant from later rejection in the event that the plant quality changes or previously existing defects become apparent that were not observed.
 - 2. All plants that are rejected shall be immediately removed from the site and acceptable replacement plants provided at no cost to the Owner. The Contractor shall bear all costs related to plant corrections.
 - 3. In the event that plants at the nursery are not available or of insufficient size, the Landscape Contractor shall reimburse the Owner for the difference between the cost of plant material installed and the cost of plant material specified.
- E. Planting:
 - 1. Notify the Owner three working days prior to the proposed arrival of plant material on the site. All plants delivered to the site and not planted within 24 hours of delivery shall be watered on a daily basis to keep root balls moist.
 - 2. Plant pits dug by machine shall have the sides of the holes scraped with hand shovels to prevent glazing or compaction of the sides of the hole.
 - 3. Plant pits shall be dug to the dimensions shown on the Contract Documents.

- a. Remove all soil from around the root flare of the stem of the plant and from the top of the rootball to determine the true depth of the rootball. Plants planted with root flares that are buried will be rejected.
4. Groundcover beds:
 - a. Groundcover beds shall be dug as shown on the Contract Documents.
 5. All plant roots and earth balls must be damp and thoroughly protected from sun and wind from the beginning of the digging operation, during transportation, and at the site until the final planting.
 6. Trees and shrubs shall be placed plumb, with root flares exposed.
 7. Prior to completion of planting installations, remove rope and burlap from the trunk or stem of the plant.
 8. The full depth of the planting pit or bed shall be backfilled with planting soil. Eliminate air pockets and compact the soil by flooding the tree pit or plant bed within 2 hours of planting installation. A saucer shall be formed around each plant at a depth of 3 inches for trees and for shrubs.
 9. Fertilizer shall be spread over the plant saucer or plant bed between the saucer and the edge of the rootball. Till the fertilizer into the soil to a depth of 4 inches prior to the placement of the planting mulch. Fertilizer shall be provided, spread and paid for under PLANTING SOILS Specification section.
- F. All plants shall be watered immediately following planting as necessary to thoroughly moisten rootball and thereafter shall be inspected frequently for watering needs and watered, as required, to provide adequate moisture to the plants. The Landscape Contractor shall inspect tree pits 24 hours after initial watering to confirm that they are draining properly. If surface water or excessively saturated plant pit soils exist, the Landscape Contractor shall immediately notify the Owner.
 - G. Mulch material shall be placed over entire saucer areas of individual trees and shrubs and over the entire area of planting beds to a depth of 1.5" inches after settlement, not later than one week after planting. Do not apply mulch prior to the first watering of plant materials. Do not apply mulch prior to placement of surface applied fertilizer and verification of placement by the Owner.
 - H. In the event that rock or underground construction work or obstructions are encountered in any plant pit or bed excavation work, and if the planting cannot be moved to an alternate location within a reasonable distance, stop work and consult the Owner for a new location.
 - I. Absolutely no debris may be left on the site. Repair any damage to site as directed by the Owner, at no additional cost.
- ### 3.2 MAINTENANCE
- A. Maintenance shall begin immediately after each plant is planted and shall continue for a minimum 30-day Monitoring Period and for 12 months following Final Acceptance.
 - B. Maintenance shall consist of keeping the plants in a healthy growing condition and shall include but is not limited to watering, weeding, cultivating, re-mulching, straightening of trees to a

plumb position, removal of dead material, resetting plants to proper grades or upright position, and maintaining the planting saucer.

1. Plants shall be inspected for watering needs at least once each week and watered to promote plant growth and vitality.
2. For trees in lawn or mulched beds, apply water to the ground surface directly under the canopy. Water shall be applied at a sufficiently slow rate to prevent run off from the soil surface.
3. Planting beds and individual plant pits shall be kept free of weeds, and mulch shall be replaced as required to maintain the specified layer of mulch. Beds and individual pits shall be neat in appearance and maintained to the designed layout.
4. Planting areas include landscaped beds with trees, shrubs, and groundcover as well as all areas that have been seeded and/or sodded.
5. Plants that die during the maintenance period shall be removed and replaced by the Landscape Contractor within one week of notification and replaced during that growing season, unless directed otherwise by the Owner.

3.3 ACCEPTANCE

- A. Upon completion of all planting work, the Landscape Contractor shall schedule an initial walk-through with the Owner to formally inspect the planting work.
- B. If plant materials and workmanship are acceptable, the Owner will issue a written Certificate of Conditional Acceptance to the Construction Subcontractor.
- C. Following the issuance of the Certificate of Conditional Acceptance to the Landscape Contractor, the Landscape Contractor shall maintain the plants for a minimum 30 day Monitoring Period. At the end of the Monitoring Period, the plant material will be inspected by the Owner to determine whether or not all planting work has been performed to the requirements of this specification section.
- D. Acceptance Standards at end of the Monitoring Period: All plants regardless of the season of review shall have a minimum of 75 percent healthy, balanced branching structure with a healthy terminal leader(s) with viable terminal bud(s).
- E. If any number of plants do not meet these Acceptance Standards at the time of inspection, or if in the Owner's opinion, workmanship is unacceptable, written notice will be given by the Owner to the Landscape Contractor in the form of a punch list, which itemizes necessary planting replacements and/or other deficiencies to be remedied. The Landscape Contractor's responsibility for maintenance of all plants shall be extended until replacements are made or other deficiencies are corrected. All plants that do not meet these Acceptance Standards shall be removed from the project within a time frame directed by the Owner. Replacements shall conform in all respects to the Specifications for new plants and shall be planted in the same manner
- F. Following the correction of all Punch List deficiencies, the Landscape Contractor shall schedule a final walk through with the Owner to inspect the planting work. If plant materials and workmanship are acceptable, the Contractor will issue a written Certificate of Final Acceptance to the Contractor.

3.4 GUARANTEE

- A. The date of the Certificate of Final Acceptance shall establish the end of the maintenance period and the commencement of the required one-year warranty and establishment period for planting work.
- B. The Landscape Contractor shall schedule quarterly walk-throughs with the Owner to review plant health throughout the warranty and establishment period. The Landscape Contractor may be required to remove any unacceptable plant material promptly from the site and replace according to this specification section at the Owner's direction.
- C. At the end of the warranty and establishment period, a final inspection by the Owner will be held to determine whether any plant material replacements are required. Plants found to be unacceptable shall be removed promptly from the site and replaced according to this specification section.
- D. All replacements shall be plants of the same kind and size specified in the plant list. The cost shall be borne by the Landscape Contractor, except for possible replacements due to vandalism or neglect on the part of others.

END OF SECTION 32 90 00



TECHNICAL SPECIFICATIONS
FOR
CONSTRUCTION AREA TRAFFIC CONTROL

1. Contractor Responsibility and General Provisions

- (a) The Contractor shall provide, erect, and maintain all traffic control devices necessary to preserve the safe and orderly movement of traffic. All operations shall be scheduled and conducted in such a manner and sequence as to cause the least practicable interference with the traveling public, fire protection, and public utility service.
- (b) Payment for materials and labor associated with the required construction area traffic control shall normally be included in the pay item(s) provided by the Contract. In the event that no such pay item(s) are included, the Contractor shall include such costs in the prices bid for other appropriate Contract items.
- (c) All necessary protective devices and operations shall be in accordance with the *Manual on Uniform Traffic Control Devices* (MUTCD), published by the Federal Highway Administration. A Traffic Control Plan is included with many projects to define specific or typical traffic control needs. The Contractor may request a revision or addition to these plans of operation by making a written request, in advance, to the Director of the Department of Engineering or an authorized representative.
- (d) A project safety officer or other similarly responsible individual shall be made known to the Director of the Department of Engineering or an authorized representative prior to the commencement of construction. This notification shall include a telephone number or numbers where the individual may be reached on a 7 day, 24 hour basis.
- (e) Except as otherwise noted in the project "Special Conditions," total road closures are not permitted. However, if the Contractor determines that one is required, a written request shall be made in advance to the Director of the Department of Engineering or an authorized representative. This request shall state the reason for the closure, estimated duration of the closure, proposed traffic control devices, and the routing of detours. A minimum of two (2) working days are required for review and processing of permit; a minimum of four (4) working days are required for the CBID and UT/Fort Sanders Area.
- (f) Except as otherwise noted in the project "Special Conditions," the Contractor shall provide one adequate traffic lane, minimum of 10 feet in width, in each direction during the hours of 7:00 A.M. - 9:00 A.M. and 3:00 P.M. - 6:00 P.M.

During hours when work is not in progress, the Contractor shall also maintain one similarly adequate traffic lane in each direction. Exceptions to the above must be approved by the Director of the Department of Engineering or an authorized representative.

- (g) The Contractor's attention is called to the *City of Knoxville Policy on Work Zone Traffic Control* (a copy of which is included at the end of this Specification following Section 6).

2. Installation and Maintenance of Traffic Control Devices

- (a) The Contractor shall be fully responsible for the supplying, erection, and maintenance of all traffic control devices. These functions shall occur in a workmanlike manner such that all supports are vertical, all sign panels are generally perpendicular to the travel way, and all legends are horizontal so that they effectively convey the intended message. Signs shall be mounted on stationary or portable supports dependent on the type of work being performed. In general, work being performed at spot locations and for a short duration will necessitate the use of portable supports properly weighted for stability. Traffic control devices shall not obstruct any bicycle or pedestrian facilities adjacent to or within the work zone unless these facilities are approved to be closed and included in the Traffic Control Plan.
- (b) All existing traffic signs within the limits of this project shall be the maintenance responsibility of the contractor for the duration of construction. This includes stop and street name signs on side streets which intersect within the project limits. This responsibility shall include temporary sign relocations caused by construction activities.

The Contractor shall provide continuous and expeditious maintenance of all required traffic control devices. This shall include, but not be limited to, replacement of sign panels, barricades, and other devices which, in the opinion of the Department of Engineering, are damaged or deteriorated beyond continued use; replacement of broken supports; plumbing of leaning signs; cleaning of dirty signs, barricades, and other devices; repair of defaced sheeting and legends; and replacement of stolen items. All items used for traffic control shall be generally maintained in their original placement condition and such maintenance will be considered a part of the original installation cost. Failure to maintain all traffic control devices in such a manner as to provide continuous safety to the public will be cause for suspension of construction operations until proper traffic control is re-established.

- (c) In the event that the Contractor, in the opinion of the Director of the Department of Engineering or an authorized representative, has failed to provide or maintain adequate traffic control devices, the City of Knoxville shall have the right to provide the necessary items and deduct the expense of the items from payments due the Contractor.

3. Application and Use of Traffic Control Devices

- (a) Cones are not permissible as channelizing devices during hours of darkness. Standard barricades, drums, and/or vertical panels are permissible, but where used to delineate vehicle paths during hours of darkness, they must be accompanied by steady-burn lights.
- (b) Except as otherwise directed by the Director of the Department of Engineering or an authorized representative, the Contractor shall maintain centerline striping throughout the duration of the project. Where a newly asphalted section of

roadway is to be maintained overnight, temporary centerline and lane line stripes shall be provided by the Contractor at the conclusion of each work day. These stripes shall be a temporary reflective tape or paint with four-inch-wide line segments. The segments shall be two-feet long with thirty-eight-foot gaps. Skip lines shall not be used for lane lines separating a turn lane from a through lane or for edge lines.

- (c) All conflicting and confusing pavement marking shall be removed or obliterated in a fashion consistent with MUTCD, Section 6D-1. Painting over existing striping is not considered to meet the requirements for removal or obliteration. The methods listed below are considered acceptable:

- 1) Sand blasting using air or water
- 2) High pressure water
- 3) Steam or super-heated water
- 4) Mechanical devices such as grinders, sanders, scrapers, scarifiers, and wire brushes
- 5) Solvents and chemicals
- 6) Burning

Any damage to the pavement or surfacing caused by the Contractor's pavement marking removal shall be repaired by the Contractor at the Contractor's expense and by methods and materials acceptable to the Department of Engineering.

- (d) Short-term operations which conflict with existing pavement markings may be permissible, but a proper vehicle path must be ensured through the appropriate use of warning signs, flagmen, and/or channelizing devices.
- (e) Mesh or other fabric-type signs are not considered acceptable for use during hours of darkness.
- (f) Except in operations of short duration, where good sight distance is available, "Flagger Ahead" signs shall be installed where flaggers are required. Flaggers shall utilize stop/slow paddles and proper attire, including a reflectorized orange vest. Flaggers must be trained and certified in flagging operations by one of the following training programs:

- 1. American Traffic Safety Services Association (ATSSA)
- 2. National Safety Council (NSC)
- 3. Tennessee Transportation Assistance Program (TTAP)

The City will accept flagger training programs developed and conducted by construction industry associations, consultant organizations, and contractors if they have an established, written program that meets all MUTCD requirements.

- (g) During periods of non-use, warning signs and other devices shall be promptly covered, removed from the work area, or otherwise positioned so they do not convey their message to the traveling public. If covered, the covering material shall be maintained in a neat and workmanlike manner.

(h) Unless otherwise notified, the official maximum speed limit is to be used for determining taper lengths, device spacing, sign placement, and other pertinent details.

4. Materials

Materials for all traffic control and marking devices shall be in accordance with the provisions of the current edition of the MUTCD. Exceptions are listed below with reference to the appropriate subsections of the current edition of the Tennessee Department of Transportation Standard Specifications (TDOTSS).

<u>Material</u>	<u>Subsection</u>
Signs:	
Aluminum	916.02 (a)
Reflective Sheeting	916.06, Type III
Paint	916.09
Cold Rolled Carbon Steel-16 gal.	ASTM A366
Drums and Barricades:	
Reflective Sheeting	916.06, Type I
Temporary Pavement Marking Material:	
The material for temporary traffic centerline and lane line marking shall be a pressure-sensitive, adhesive-backed, reflective pavement-marking tape or reflectorized paint.	
Cones:	
Cones shall be a minimum of 28 inches high and weighted at the base.	

In addition to the materials certifications required above, the Contractor shall submit a signed, notarized statement that the materials to be used for temporary traffic control comply with the above provisions. This statement shall be submitted prior to the beginning of the work.

5. Method of Measurement:

When the Bid Schedule stipulates that payment will be made for Construction Area Traffic Control on a Lump Sum basis, the pay item "Construction Area Traffic Control" will include all signs, barricades, lights, flag persons, temporary pavement markings, and all incidentals required by this specification, any Traffic Control Plan included in the Contract Drawings, and the MUTCD. Where the Bid Schedule stipulates that payment will be made for Specific Items on a unit basis, measurement will be made by the unit stipulated. Where the Special Conditions and/or notes on the construction drawings stipulate that the cost of Construction Area Traffic Control will be included in other Items Bid, no measurement will be made.

6. Basis of Payment

The accepted quantity of Construction Area Traffic Control will be paid for at the lump sum price bid, which price shall be full compensation for providing Construction Area Traffic Control for the duration of the project in accordance with these specifications and the Traffic Control Plan provided with the construction drawings and/or submitted by the Contractor. This compensation shall include all labor, materials, equipment, and incidentals necessary to complete the work.

The compensation shall be paid in accordance with the following schedule.

Percent of Total Contract on Partial Pay Estimate	Total Percent Allowed for Compensation for Lump Sum Item
5% -----	30%
50% -----	50%
75% -----	75%
100%-----	100%

**POLICY ON WORK ZONE TRAFFIC CONTROL
CITY OF KNOXVILLE, TENNESSEE
May 2018**

I. Introduction

- A. The proper use of warning devices in roadway construction and maintenance work areas must be planned in advance to meet the individual requirements of the job site. The objective of this policy is to provide maximum protection to employees, plants, equipment, and the public while causing minimum interference to vehicular, bicycle, and pedestrian traffic.
- B. When guarding work areas, always provide more protection than may appear necessary rather than under-protecting. Inadequate protection may promote accidents by presenting the driver, bicyclist, or pedestrian with a false impression of the extent of the work area and the deviations that the traveler must take from the original route in order to safely pass the work area.
- C. Early project planning for traffic control in construction and maintenance areas, as well as implementation and surveillance of the controls during construction are very important.

II. Need for Standards

- A. Problems of traffic control occur when traffic must be moved through, around, or adjacent to road or street construction, maintenance operations, and utility work. No one standard sequence of signs or other control devices can be set up as an inflexible arrangement for all situations due to the variety of conditions encountered.
- B. The *Manual on Uniform Traffic Control Devices* (MUTCD) has been adopted as Federal and Tennessee Law. The MUTCD established principles to be observed in the design, installation, and maintenance of traffic control devices.
- C. These principles and standards are directed to the safe and expeditious movement of traffic through work areas and to the safety of the work force performing those operations.

III. Responsibility

- A. Adequate public protection shall be provided by contractors, public utility companies, railroads, and state and city agencies performing any work on roadways or any work so closely adjacent to roadways as to create hazards or to restrict pedestrian, bicycle, or vehicular flow.
- B. It is important that the authorities having jurisdiction are able to require proper protection, that responsibility be clearly assigned, adequate training of personnel be provided, and that there be adherence to the provisions of the MUTCD.
- C. A temporary traffic control plan (TTCP) should include, but not be limited to, items such as signing; application and removal of pavement and markings; construction; scheduling; methods and devices for delineation and channelization; placement and maintenance of devices; roadway lighting; traffic regulations; and surveillance and inspection.

- D. A TTCP and permit form shall be prepared by the contractor, public utility company, or state or city agency proposing to do work on or adjacent to the roadway. The TTCP and permit form should be completed in detail, to the complexity of the work project, and note the date of planned beginning and the duration of construction.
- E. The TTCP shall be reviewed and approved by the Director of the Department of Engineering or an authorized representative. A minimum of 48 hours should be allowed for review of the TTCP. Contact the City of Knoxville Department of Engineering, 3131 Morris Avenue, Telephone 215-6100, for additional information and assistance
- F. When the TTCP and permit are approved, the City of Knoxville Department of Engineering will coordinate with the media and other agencies, as needed.
- H. Construction on or adjacent to local streets (traffic volumes of less than 1,000 vehicles-per-day) requiring one lane closures will only require implementation of adequate work zone traffic control procedures as outlined in the MUTCD.
- I. The blockage of a sidewalk, bicycle lane, or other public-use path shall be regarded with the same importance as the closure of a motor vehicle lane by applying temporary traffic control practices. The City may require accommodations for pedestrians and bicyclists that provide a safe, accessible and convenient route through, past, or around a work zone that provides sufficient capacity and is also likely to be followed by the pedestrians and cyclists.

IV. Road Closures

- A. Total road closures for construction and maintenance activities are typically not permitted on principal collector or arterial roadways. Total road closures on secondary collectors and local streets will be considered on a case-by-case basis. Traffic control plans for total road closures must be sealed by a Professional Engineer registered in the State of Tennessee.
- B. In the event of an emergency, and there is no alternative but to close the roadway, adequate work zone traffic control procedures as outlined in the MUTCD shall be implemented. Notification of proper authorities must be made as soon as possible by contacting the E-911 Dispatcher at 215-4010.

V. Sidewalk Closures

- A. The method for providing safe accommodation should be prioritized as follows:
 - 1. Protect the existing pedestrian route from the worksite.
 - 2. Provide a temporary pedestrian route in a parking lane and protect it from adjacent traffic.
 - 3. Provide a multi-use path in a bike lane, and protect it from traffic. The path width must be a minimum of eight feet wide.
 - 4. Provide a pedestrian route in an existing bike lane, protect it from traffic, and merge bicycles with traffic.
 - 5. Provide a pedestrian route in an existing traffic lane and protect it from traffic.
 - 6. Provide a pedestrian detour route.

- B. Closing a sidewalk on one side of the street and directing pedestrians to the sidewalk on the other side of the street is considered a pedestrian detour.
- C. In high pedestrian areas such as the Central Business Improvement District (CBID), Cumberland Ave, Fort Sanders, and other areas designated by the Director of the Department of Engineering or an authorized representative, a temporary pedestrian route should be given priority over vehicular traffic facilities, except when resulting in excessive delay to transit or creates excessive congestion.
- D. Both sidewalks on a block should not be closed simultaneously.
- E. A pedestrian route designated as an established detour route should not be closed.
- F. Signage intended only for pedestrians shall display the word “pedestrian” or the pedestrian symbol. A temporary route shall be clearly marked and include advanced notification of sidewalk closures, detours or diversions. Advanced notification to pedestrians of any detour or diversion shall be provided at the nearest crosswalk or intersection that meets minimum safety requirements on either side of the detour or diversion.
- G. If the work zone affects an accessible pedestrian route, the accessible features along the temporary route shall have accessibility features equivalent to or better than the features on the disturbed route. Where existing physical constraints make it impractical to have equivalent accessibility features, compliance is required to the maximum extent practicable. All physical constraints shall be documented and retained in the project’s file. Existing physical constraints include, but are not limited to, underlying terrain, limited right-of-way availability, underground structures, adjacent facilities, intersection geometry, maintaining positive drainage, or the presence of notable natural or historic features.
- H. The pedestrian route shall be free of obstructions and surface hazards, e.g. debris, holes, loose gravel, and mud.
- I. If accommodation for pedestrians must be closed intermittently due to conflicts with construction activities, flaggers must be posted on each end of the route during peak hours when closures are in place. Reasonable flow of pedestrian traffic must be maintained in preference to construction activities and the flow of construction vehicles.

VI. Bike Lane Closure

- A. The method for providing safe accommodation for bicyclists should be prioritized as follows:
 - 1. Provide a bicycle lane on the same roadway past the work zone by shifting and narrowing the adjacent travel lanes.
 - 2. Provide a bicycle lane in an existing travel lane.
 - 3. Merge bicyclists and adjacent traffic into a shared travel lane; this method may not be appropriate for higher speed/volume roadways.
 - 4. Provide a bicycle detour route.

- B. Signage intended only for bicyclists shall display the word “bicycle” or the bicycle symbol. A temporary route shall be clearly marked and include advanced notification of lane closures, detours or diversions. Signage shall adequately warn bicyclists of any lane shift or shared lane condition.
- C. The bicycle route shall be free of obstructions and surface hazards, e.g. drainage grates, debris, holes, loose gravel, and mud.
- D. All traffic control plans that require bicyclists to merge with traffic shall post construction work zone speed limits of 35mph or less.
- E. If accommodation for bicyclists must be closed intermittently due to conflicts with construction activities, flaggers must be posted on each end of the route during peak hours when closures are in place. Reasonable flow of bicycle traffic must be maintained in preference to construction activities and the flow of construction vehicles.

VII. Hours of Work

- A. When construction that will block one or more lanes of a principal collector or arterial roadway is required, the hours of work shall be limited on weekdays to avoid conflict with peak hour traffic movement. Work on weekdays is permitted before 6:00 A.M., from 9:00 A.M. to 3:00 P.M., and after 6:30 P.M. Work is permitted during off-peak conditions and on weekends except for unusual circumstances, i.e. parades, U.T. football games, etc. More liberal hours are typically allowed on local streets. Other arrangements may be approved on a case-by-case basis.
- B. When an emergency occurs that requires total road closure on a principal collector or arterial roadway, every effort should be made to make the repairs as soon as possible. Notification of proper authorities must be made as soon as possible by contacting the E-911 Dispatcher at 215-4010.

VIII. Street Cut Permits

- A. When the work requires that city streets be cut, a permit shall be required from the City of Knoxville Department of Engineering, 3131 Morris Avenue. On an emergency basis, these permits may be obtained by notifying the City of Knoxville Department of Engineering at 215-6100 and then following up with a written request as soon thereafter as practical. In routine situations, a written request outlining the need for cutting the street, the proposed location, the proposed date of work, and the contractor involved shall be supplied in writing to the City of Knoxville Department of Engineering at 3131 Morris Avenue. A minimum of two (2) working days are required for review and processing of permit; a minimum of four (4) working days are required for the CBID and UT/Fort Sanders Area.
- B. Construction standards are available at the City of Knoxville Department of Engineering offices at 3131 Morris Avenue and on the City’s website: <http://www.knoxvilletn.gov>.

IX. Principal Collector and Arterial Roadways

For the purposes of this policy, the following shall be defined as principal collector or arterial roadways.

A. All streets in the Central Business Improvement District (CBID). See map on page TS-34.0-14.

B. Principal collectors, arterials and selected minor collectors:

Adair Drive, Bruhin Road to Sanders Drive
Ailor Avenue, Western Avenue to 21st Street
Alcoa Highway
Amherst Road, Middlebrook Pike to McKamey Road
Anita Drive, Sevier Avenue to Hillwood Drive
Asheville Highway
Atlantic Avenue, Central Street to Broadway
Ault Road, Buffat Mill Road to Hillview Avenue

Ball Camp Pike, Western Avenue to John May Road
Baxter Avenue, Beaumont Avenue to Central Street
Beaumont Avenue, Baxter Avenue to Keith Avenue
Bennington Drive, Corteland Drive to Vanosdale Road
Bernard Avenue, Elm Street to Central Avenue
Beverly Road, Tazewell Pike to Greenway Drive
Blount Avenue, Gay Street to Maryville Pike
Boyds Bridge Pike, Brooks Avenue to Holston River Bridge
Bradshaw Garden Drive, Pleasant Ridge Road to Clinton Highway
Bradshaw Road, Ball Camp Pike to Pleasant Ridge Road
Bridgewater Road, Cross Park Drive to Kingston Pike
Broadway
Brooks Avenue, Dandridge Avenue to Boyds Bridge Pike
Broome Road, N. Gallaher View Road to Middlebrook Pike
Bruhin Road, Inskip Drive to Heiskell Avenue
Buckingham Road, Kingston Pike to Vanosdale Road
Buffat Mill Road, Whittle Springs Road to Loves Creek Road

Cecil Avenue, Broadway to Cherry Street
Cedar Bluff Road, Kingston Pike to Cross Park Drive
Cedar Lane, Central Avenue Pike to Broadway
Central Avenue Pike, Murray Drive to Bruhin Road
Central Street, Bruhin Road to Neyland Drive
Chapman Highway
Cherokee Boulevard, Scenic Drive to Kingston Pike
Cherokee Trail, Alcoa Highway to Scottish Pike
Cherry Street, Cecil Avenue to Magnolia Avenue
Chilhowee Drive, Rutledge Pike to Holston Hills Drive
Clancy Avenue, Blount Avenue to Scottish Pike
Clinch Avenue, 22nd Street to 11th Street
Clinton Highway
Coleman Road, Lonas Drive to Papermill Drive
Concord Street, Kingston Pike to Sutherland Avenue

Copper Kettle Street, Western Avenue to Ed Shouse Drive
Cross Park Drive, Cedar Bluff Road to Bridgewater Road
Cumberland Avenue

Dale Avenue, 21st Street to Western Avenue
Dandridge Avenue, Hill Avenue to Brooks Avenue
Dandridge Avenue, Brooks Avenue to Riverside Drive
Davenport Road, Sevier Avenue to Moody Avenue
Deane Hill Drive, Morrell Road to Kingston Pike
Delrose Avenue, Dandridge Avenue to Boyds Bridge Pike
Downtown West Boulevard, Kingston Pike to Gleason Road
Dry Gap Pike, Central Avenue Pike to Rifle Range Road
Dutch Valley Drive, Bruhin Road to Old Broadway

Ed Shouse Drive, Western Avenue to Middlebrook Pike
11th Street, Western Avenue to Cumberland Avenue
Elm Street, Oldham Avenue to Bernard Avenue
Emory Road
Essary Drive, Broadway to Briarcliff Road

Fairmont Boulevard, Broadway to Whittle Springs Road
5th Avenue, University Avenue to Winona Street
Forest Glen Drive, Tobler Lane to Kingston Pike
Forest Park Boulevard, Sutherland Avenue to Kingston Pike
Fairway Road, Valley View Road to Washington Pike
Francis Road, Middlebrook Pike to Amherst Road

Gallaher View Road, Middlebrook Pike to Gleason Drive
Gap Road, I-640 to Wilson Road
Gleason Drive, Morrell Road to Gallaher View Road
Gov. John Sevier Highway
Greenway Drive, Broadway to Washington Pike

Hall of Fame Drive, E. Hill Avenue to Broadway
Haynes Sterchi Road, Dry Gap Pike to Cedar Lane
Heiskell Avenue, Texas Avenue to Central Street
Henley Street

Highland Avenue, 22nd Street to 16th Street
Highland Drive, Inskip Road to Broadway
Hillview Avenue, Ault Road to Rutledge Pike
Hinton Road, Third Creek Road to Western Avenue
Hollywood Drive, Lonas Drive to Sutherland Avenue
Hotel Road, Broadway to Holbrook Drive

Inskip Drive, Clinton Highway to Bruhin Road
Inskip Road, Cedar Lane to Adair Drive
Island Home Avenue, Sevier Avenue to Island Home Pike
Island Home Pike, Island Home Avenue to Sevierville Pike

Jacksboro Pike, Tazewell Pike to Broadway
Jackson Road, Amherst Road to Cecil Johnson Road
James White Parkway
Johnston Street, Heiskell Avenue to Tennessee Avenue

Keith Avenue, Beaumont Avenue to Sanderson Road
 Kingston Pike
 Knott Road, Middlebrook Pike to Tenwood Drive

 Lake Loudoun Boulevard, Volunteer Boulevard to Neyland Drive
 Liberty Street, Keith Avenue to Sutherland Avenue
 Lonas Drive, Weisgarber Road to Middlebrook Pike
 Loves Creek Road, Millertown Pike to Rutledge Pike
 Lyons Bend Road, Northshore Drive to Glen Cove Drive
 Lyons View Pike, Northshore Drive to Kingston Pike

 Mabry Hood Road, Pellissippi Parkway to Kingston Pike
 Magnolia Avenue
 Mall Road N, Millertown Pike to Washington Pike
 Mall Road S, Washington Pike to Millertown Pike
 Martin Luther King, Jr. Avenue, Dandridge Avenue to Holston Drive
 Martin Mill Pike, Chapman Highway to Ogle Avenue
 Maryville Pike, Ogle Avenue to Caleb Avenue
 McCalla Avenue, Jessamine Street to Martin Luther King, Jr. Avenue
 McDonald Road, Boyds Bridge Pike to Sunset Road
 McKamey Road, Amherst Road to Western Avenue
 Merchant Drive, Pleasant Ridge Road to Central Avenue Pike
 Middlebrook Pike
 Millertown Pike, Washington Pike to Mill Road
 Mineral Springs Road, Broadway to Whittle Springs Road
 Montvue Road, Kingston Pike to Gleason Road
 Moody Avenue, Chapman Highway to South Knoxville Boulevard
 Morrell Road, Kingston Pike to Northshore Drive
 Murray Drive, Pleasant Ridge Road to Central Avenue Pike

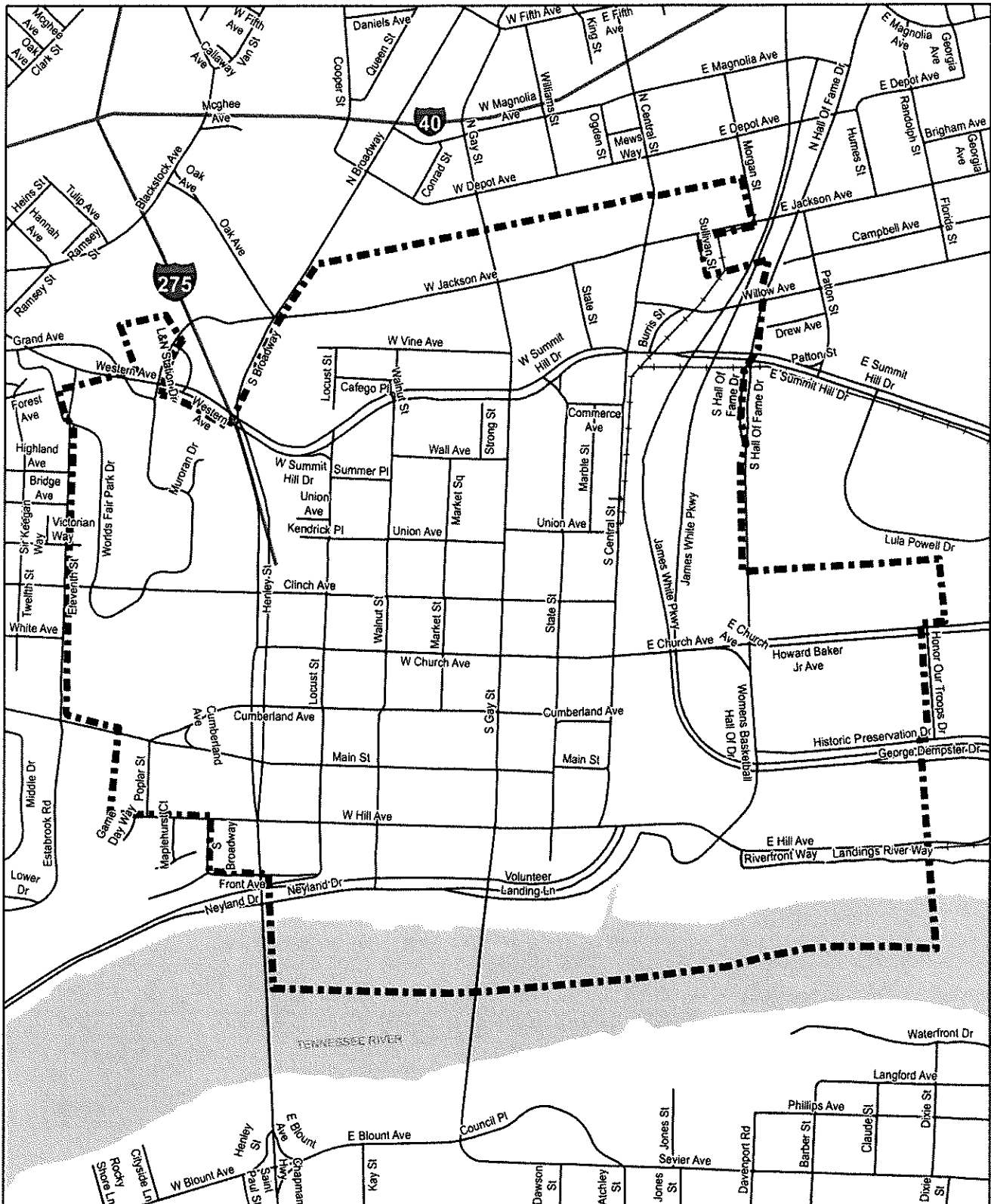
 Neubert Springs Road, Martin Mill Pike to W. Ford Valley Road
 Neyland Drive
 Northshore Drive

 Ogle Avenue, Maryville Pike to Martin Mill Pike
 Oglewood Avenue, Harvey Street to Broadway
 Old Broadway, Broadway to Mineral Springs Road

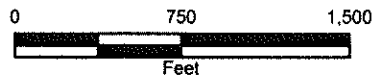
 Palmetto Road, Western Avenue to Sullivan Road
 Papermill Drive, Kingston Pike to Liberty Street
 Parkdale Road, Rifle Range Road to Cedar Lane
 Parkside Drive, City Limit to beginning of N. Peters Road
 Pellissippi Parkway
 N. Peters Road, Kingston Pike to beginning of Parkside Drive
 Pleasant Ridge Road, Western Avenue to City Limit (N. of Murray Drive)
 Proctor Street, Middlebrook Pike to Western Avenue
 Prosser Road, Buffat Mill Road to Magnolia Avenue

 Ray Mears Boulevard, Downtown West Boulevard to Montvue Road
 Riverside Drive, South Knoxville Boulevard to Delrose Drive
 Riverside Drive, Delrose Drive to Holston Hills Road
 Rutledge Pike

Sanders Drive, Adair Drive to Jacksboro Pike
Sanderson Road, Pleasant Ridge Road to Keith Avenue
Scenic Drive, Kingston Pike to Southgate
17th Street, Western Avenue to Cumberland Avenue
Sevier Avenue, Gay Street to Island Home Avenue
Sevier Avenue, Island Home Pike to Sevierville Pike
Sevierville Pike, Sevier Avenue to City Limit (E. of E. Ford Valley Road)
Shea Street, Western Avenue to College Street
Sisk Road, Hazelwood Road to Pleasant Ridge Road
South Knoxville Boulevard
Strawberry Plains Pike, Bell Lane to Huckleberry Springs Road
Stone Road, Chapman Highway to Magazine Road
Sullivan Road, Western Avenue to Pleasant Ridge Road
Sutherland Avenue, University Avenue to Westwood Drive
Tazewell Pike
Tennessee Avenue, Western Avenue to Johnston Street
Texas Avenue, Western Avenue to Heiskell Avenue
Third Creek Road, Hinton Road to Middlebrook Pike
Tillery Road, Wilson Road to Central Avenue Pike
Tobler Lane, Sutherland Avenue to Forest Glen Drive
21st Street, Dale Avenue to Leslie Avenue
University Avenue, Western Avenue to Bernard Avenue
Valley View Drive, Whittle Springs Road to Washington Pike
Vanosdale Road, Buckingham Road to Middlebrook Pike
Volunteer Boulevard, Cumberland Avenue to Cumberland Avenue
Walker Springs Road, Walbrook Drive to Kingston Pike
Walnoaks Road, Sullivan Road to Pleasant Ridge Road
Washington Pike, Broadway to Murphy Road
Weisgarber Road, Middlebrook Pike to Papermill Drive
Western Avenue
Westland Drive, Northshore Drive to Morrell Road
Westwood Drive, Sutherland Avenue to Papermill Drive
Whittle Springs Road, Mineral Springs Avenue to Cecil Avenue
Wilson Road, Pleasant Ridge Road to Clinton Highway
Winston Road, Kingston Pike to Corteland Drive
Woodland Avenue, I-75 to Broadway
Woodlawn Pike, Chapman Highway to Chapman Highway
Young High Pike, Martin Mill Pike to Woodlawn Pike



Print Date: 09/15/2016



**CITY OF KNOXVILLE
CENTRAL BUSINESS
IMPROVEMENT DISTRICT
(CBID)**