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City of Tyler, Texas

Capital Improvement Project (CIP) Contract

CONTRACT DOCUMENTS FOR

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

CITY OFFICIALS:

Mayor Donald P. Warren

City Council

District 1: Central Stuart Hene
District 2: West Broderick McGee
District 3: Northwest Shirley McKellar
District 4: Northeast James Wynne
District 5: East Bob Westbrook
District 6: South Brad Curtis

City Manager Edward Broussard

Managing Director, Utilities and Public Works Kate Dietz

PREPARED BY:

Halff Associates, Inc.

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Section 1 ADDENDA

[Insert Addenda Here If Applicable]

Section 2**NOTICE TO BIDDERS**

Sealed bids addressed to the City of Tyler, Texas, will be received in the Purchasing Office, 304 North Border, Tyler, Texas 75702, Attention: Purchasing Manager, until 2:00 p.m., on Tuesday, March 14, 2023 and will be publicly opened immediately afterwards in the City Council Chambers, 212 North Bonner, City Hall, 2nd Floor.

Sealed bids will be for furnishing all necessary materials, equipment, superintendence, and labor for construction of the following being improvements for the City of Tyler, Texas:

City of Tyler Bid Number: #23-030

Project Name: Pollard Park Renovations

The project includes: The installation of a concrete recreation trail, playground equipment, basketball courts, and site-specific concrete paving. Project will include demolition, tree removal, grading and site restoration.

Forms of proposal, contract, bonds, insurance, plans and specifications may be obtained at the City of Tyler Parks & Recreation website at [Parks Contract Bids | Tyler, TX \(cityoftyler.org\)](http://Parks Contract Bids | Tyler, TX (cityoftyler.org))

A Pre-Bid Conference will be held on Monday, March 6th at 10:00 am, located on site at Pollard Park, 710 E. Amherst Street, Tyler, Texas. The Pre-Bid Conference will be non-mandatory. Questions concerning this project shall be directed to Leanna Robinette, Director of Parks & Recreation., 903- 531-1370.

Please Note: In accordance with House Bill 1295, for certain contracts entered into on or after January 1, 2016, the successful bidder must submit a Certificate of Interested Parties (Form 1295) at the time the signed contract is submitted to the CITY. See Section 19, “Certificate of Interested Parties”.

Please Note: In accordance with Federal guidelines for federally funded projects the selected Contractor and Sub-Contractors shall submit all necessary documents and forms in compliance with Davis-Bacon Act and Related Acts.

City of Tyler,
Edward Broussard, City Manager

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Section 3 INSTRUCTIONS TO BIDDERS

3.1 PROPOSAL FORM

The **CITY** will furnish bidders with proposal forms which state the general location and description of the contemplated Work, an approximate estimate of the materials to be furnished and/or Work to be done and upon which bid prices are asked, and the time in which the Work is to be completed. The *Proposal* form will provide a space for entering the amount of proposal guaranty.

3.2 EXAMINATION OF PLANS, SPECIFICATIONS AND SITE OF THE WORK

Bidders are advised that the plans, specifications, and other documents on file with the **CITY** will constitute all the information furnished by the **CITY**. Bidders are required, prior to submitting any bid package, to read the specifications, *Proposal*, contract and bond forms carefully, to visit the site of the Work, to examine carefully local conditions, to inform themselves by their independent research, tests, and investigations of the difficulties to be encountered and assess for themselves the accessibility of the Work and all attending circumstances affecting the cost of doing the Work and time required for its completion, and obtain all information required to make an intelligent bid. No information given by the **CITY** or any officials thereof, other than that shown on plans and contained in the specifications, *Proposal* and other documents, will be binding upon the **CITY**. Bidders must rely exclusively upon their own estimates, investigations, tests, and other data which are necessary for full and complete information upon which the bid may be based. It is mutually agreed that submission of a bid package is evidence that the bidder has made the examinations, investigations, and tests required herein. Should a bidder find discrepancies in, or omissions from the plans, specifications or other documents, or be in doubt as to their meaning, the bidder should notify the **CITY** immediately and obtain a clarification prior to submitting any bid package. Claims for additional compensation due to variations between conditions actually encountered in construction and as indicated by the plans will not be allowed.

3.3 PRE-BID CONFERENCE

If a Pre-Bid Conference is scheduled, it will be set a minimum of four (4) working days prior to the bid opening time. If attendance at the Pre-Bid Conference is mandatory due to the size or nature of the project, bidders must attend to ensure their understanding of the project scope as well as the **CITY'S** bidding and contracting requirements; a bidder's absence from a mandatory Pre-Bid Conference shall result in disqualified from bidding.

3.4 ADDENDA

Should a bidder find discrepancies in, or omissions from the plans or specifications or other contract documents, or should he be in doubt as to their meaning, he should at once notify the Project Designer in order that a written addendum may be sent to all bidders. Bidders desiring further information or interpretations must make request for such information to the Project Designer prior to four (4) working days before the time of the bid opening. The person submitting the request will be responsible for its prompt delivery. Appropriate clarification and addenda will be issued at least forty-eight (48) hours prior to the time of the bid opening. Answers to all such requests will be given in writing to all bidders, in addendum form, and all addenda will be bound with and made a part of the contract documents. No other explanation or interpretation will be considered official or binding. Any addenda issued will be mailed, faxed or delivered to each person to whom a set of such documents has been furnished and receipt of

same must be acknowledged by noting the addendum number and date of receipt of said addenda in the space provided on the ***Proposal*** form. The proposal, as submitted by the **CONTRACTOR**, will be so constructed as to include any addenda if such are issued by the Project Designer (prior to forty-eight (48) hours of the bid opening).

3.5 QUANTITIES IN PROPOSAL FORM

The quantities of the Work and materials set forth in the ***Proposal*** form or on the plans approximately represent the Work to be performed and materials to be furnished, and are for the purpose of comparing the bids on a uniform basis. Payment will be made by the **CITY** to the **CONTRACTOR** only for the actual quantities of Work performed or materials furnished in accordance with the plans and specifications, and it is understood that the quantities may be increased or decreased as provided for in Section 16.13.2 "Estimated Quantities", without in any way invalidating the bid prices.

3.6 UNIT PRICES

Unit prices written in words will be the basis for the award of the proposal. Unit prices are used by the **CITY** in scheduling interim payments to the **CONTRACTOR**. The unit price written in words, multiplied by the estimated bid quantity, will be used to determine the item extension and the actual total bid price. All mathematical errors found when the bids are tabulated will be corrected by the **CITY**, and the bids will be revised to reflect the correct item extension and/or total bid price. The corrected total bid amount will then become the official proposal for that **CONTRACTOR**. All bidders will be notified of any errors in their bid, and will be notified and given the opportunity to review the official bid tabulation prior to award recommendation.

The unit prices shown in the proposals must be balanced to reflect actual cost of the item, including a fair and reasonable cost for overhead and profit. If the unit price is considered to be unbalanced, the **CITY** reserves the right to reject the entire proposal. If required by the **CITY**, the **CONTRACTOR** must provide documentation to substantiate that the unit prices reflect fair and reasonable material costs, labor costs, overhead and profit, as determined by industry standards.

3.7 PROJECT COMPLETION TIME

Project completion time will be established according to the requirements of the ***Proposal***. The amount bid for the contract will adequately represent the effort required to complete the project within the specified time on the ***Proposal***.

3.8 ASSIGNMENT AND SUBCONTRACTING

The **CONTRACTOR** will retain full control and will give personal attention to the fulfillment of this contract and will not assign by Power of Attorney or otherwise without the written consent of the **CITY**.

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. However, the **CONTRACTOR** shall not employ any subcontractor against whom the **CITY** may have a reasonable objection.

The **CONTRACTOR** must perform, with the **CONTRACTOR'S** own forces, at least thirty percent (30%) of the total contract, based on unit bid prices, unless this requirement is waived by

the **CITY**.

Subcontracting any portion or feature of the Work, or materials required in the performance of this contract, shall not relieve the **CONTRACTOR** from his full obligations to the **CITY**, as provided by this AGREEMENT. The **CONTRACTOR** will be fully responsible to the **CITY** for the acts and omissions of subcontractors, and of persons either directly or indirectly employed by them, as the **CONTRACTOR** is for the acts and omissions of persons directly employed by the **CONTRACTOR**.

The **CONTRACTOR** must 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 the subcontractors, and to give the **CONTRACTOR** the same power as regards to terminating any subcontract that the **CITY** may exercise over the **CONTRACTOR** under any provision of the contract documents.

In the event that a portion of the Work is subcontracted, the **CITY** will not recognize such subcontractors in supervision of the construction or in making monthly payments for Work accomplished. The **CONTRACTOR** shall be primarily responsible for all Work, and shall receive all payments. Nothing contained in this contract shall create any contractual relation between any subcontractor and the **CITY**.

3.9 OUT-OF-STATE CONTRACTORS

All out-of-state **CONTRACTORS** are required to submit with their bid package a copy of any law from their state of residence which would give a preference to **CONTRACTORS** domiciled in their state over out-of-state **CONTRACTORS**.

3.10 NON-DISCRIMINATORY EMPLOYMENT

The City Council adopted on October 21, 1975, a Resolution requiring non-discriminatory employment by persons who contract with the **CITY** to supply labor, materials, goods, or services to the **CITY**. A copy of the latest City Manager's *Policy Statement On Equal Employment Opportunity* shall be included in the contract documents and is on file in the City Clerk's Office. The **CONTRACTOR** and **CONTRACTOR'S** subcontractors or agents must not engage in any discriminatory employment practices.

3.11 WAGE RATES

Wage rates for the various classes of labor involved in the project shall be not less than those prevailing for each class of labor in this area. Time and one-half shall be paid all workers, whether skilled or semi-skilled, for all labor done in excess of forty (40) hours weekly. The inclusion, if any, of a schedule of minimum wage does not relieve the **CONTRACTOR** from responsibility to comply with any State or Federal wage law that may be applicable.

The **CONTRACTOR** shall deduct from all workers' wages social security, withholding tax, and all deductions required by law and shall not make any deductions other than those required or authorized by law.

3.12 PROPOSAL GUARANTY (BID BOND)

Bidders must submit an acceptable Cashier's or Certified Check upon a national or state bank in the amount of five percent (5%) of the total maximum bid payable without recourse to the City

of Tyler, Texas, or an acceptable ***Bid Bond*** in the same amount from a reliable surety company, registered by the State Board of Insurance to conduct business in the State of Texas, and acceptable according to the most recent list of the companies holding Certificates of Authority from the Secretary of the Treasury of the United States, shown on the Treasury List, as a guarantee that the bidder will enter into a contract. The proposal guaranty must be enclosed in the same envelope containing the bid package. Bid packages without the required enclosed check or ***Bid Bond*** will not be considered. All proposal guaranties will be returned un-negotiated, after the bids are opened, except those of the three (3) lowest bidders, which the **CITY** may elect to hold until the successful bidder has executed the contract.

3.13 PREPARATION OF PROPOSAL

The bidder has the option of either submitting the proposal on the forms furnished by the **CITY** in the contract documents, or submitting a computer print-out proposal in lieu of the **CITY'S Proposal** form.

Preparation of Proposal on forms supplied by CITY:

All blank spaces in the form must be correctly filled in and the bidder must state the prices, typed or written in ink, both in words and numerals, for which the bidder proposes to do the Work contemplated or furnish the material required. It will be the bidder's responsibility to ensure that all unit prices written in words will be clear and legible. Illegibly written unit prices will result in the proposal being rejected and will not be considered as an irregularity of the proposal. In case of a discrepancy between the unit price written in words, the unit price written in figures, and/or the item extension written in figures, the unit price written in words will govern.

The Total Bid Price must be shown in both numbers and words.

Acknowledgement of all addenda, typed name and title of person signing proposal, authorized signature and date shall also be included.

Preparation of Proposal on computer print-out supplied by bidder:

The computer print-out proposal shall be in spreadsheet format, using software of the bidder's selection. As a minimum, a computer print-out must include the following information: Bid Item Number, Approximate Quantities, Unit of Measure, Bid Item Description, Written Unit Price, Unit Bid Price, Extended Price (Amount), as well as Total Bid Price. Line items must be in the same order as on the **CITY'S Proposal** form (see example below).

Bid Item	Quantity	Unit	Item Description and Written Unit Price	Unit Price	Amount
----------	----------	------	--	------------	--------

The Total Bid Price must be shown in both numbers and words.

Acknowledgement of all addenda, typed name and title of person signing proposal, authorized signature and date shall also be included.

All computer print-out proposals shall be delivered, in hard copy (i.e. no fax or e-mail submittals) to the designated location, at or before the designated time and include the following

certification:

[Insert bidder's name here] certifies that the unit prices shown on this complete computer print-out for all the bid items and alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out. [Insert bidder's name here] acknowledges and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the City of Tyler issued proposal and totaling all of the extended amounts.

Typed Name: _____
Title: _____
Signature: _____
Date: _____

3.14 SIGNATURE REQUIREMENTS OF PROPOSAL

1. If a proposal is submitted by an **individual**, the proposal must be signed by the individual or the individual's duly authorized agent.
2. If the proposal is submitted by a **firm, association, partnership or company**, the name and address of each member must be given and the proposal signed by a member of the firm, association, partnership, company or person duly authorized.
3. If the proposal is submitted by a **corporation**, the company or corporate name and address must be given and the proposal signed by an official or duly authorized agent and sealed with the corporate seal. Powers of attorney authorizing agents or others to sign proposals must be properly certified and must be in writing and submitted with the proposal.

3.15 FILING OF BID PACKAGES

No bid package will be considered unless it is received in the Water Utilities Administrative Office, Tyler, Texas within the time limit for receiving bid packages as stated in the advertisement. Each bid package must be in a sealed envelope, plainly marked with the word "proposal", and the project name and time and date the bid package is to be opened as designated in the **Notice to Bidders**.

The bid package must consist of the following items to be considered complete: 1.

- Acknowledgment of all addenda
2. **Proposal**
3. **Bid Bond**

Any bid package received without each of the required items may be rejected and may not be read at the bid opening.

CONTRACTORS building public streets and drainage, water and/or sewer facilities (not including specialty work such as pipeline camera inspection, interior lining of pipes, etc.) shall have a fully executed **Contractor's Qualification Statement** on file with the **CITY** prior to bid

opening or include it as part of the **CONTRACTOR'S** bid package. Forms are available for download at <https://www.cityoftyler.org/government/departments/engineering-services/engineering-and-construction-standards>. **CONTRACTORS** performing any other type of work (i.e., not public streets, drainage or utilities) are not required to have a ***Contractor's Qualification Statement*** on file or include it as part of the bid package unless required by a City Operational Department. Other information from the **CONTRACTOR** such as company history, relevant work experience, project references, etc. may be required in lieu of the ***Contractor's Qualification Statement***.

3.16 WITHDRAWING OR MODIFYING BID PACKAGES

A bidder may withdraw a bid package provided a written request to do so is in the hands of the official indicated in the ***Notice to Bidders*** by the time set for opening of bid packages. A bidder may change the unit prices in the proposal provided a written request to do so is in the hands of the Purchasing Agent prior to the time set for opening of bid packages. Requests by telephone or FAX for changes in bid prices or for withdrawal of bid packages will not be considered. No bid packages will be withdrawn within sixty (60) calendar days after the bid opening.

3.17 OPENING BID PACKAGES

The bid package filed with the Purchasing Agent will be opened at the time stated in the ***Notice to Bidders*** and publicly read aloud, and will thereafter remain on file with the **CITY**. Bidders or their agents are invited to be present.

3.18 IRREGULAR PROPOSALS

Proposals will be considered irregular if they show any omissions, alterations of form, additions, or conditions not called for, unauthorized alternate bids, or irregularities of any kind. However, the **CITY** reserves the right to waive any irregularities and to make the award in the best interests of the **CITY**.

3.19 DISQUALIFICATION OF BIDDERS

Bidders may be disqualified and their bid package not considered for any of the following specific reasons:

1. Reason to believe collusion exists among the bidders.
2. The bidder is in arrears on any existing contract or has defaulted on a previous contract.
3. The bidder is interested in any litigation against the **CITY**.
4. Uncompleted Work which in the judgment of the **CITY** will prevent or hinder the prompt completion of additional Work if awarded.
5. Poor performance in the execution of Work under previous contracts.
6. The bidder is determined to have an unacceptable safety record.
7. Incomplete bid packages (see Section 3.15, "Filing of Bid Packages").
8. Proposals in which prices are obviously unbalanced (see Section 3.6, "Unit Prices").
9. Proposals which are irregular (see Section 3.18, "Irregular Proposals").
10. **CONTRACTORS** not qualified to perform this Work, as determined by the **CITY**.
11. **CONTRACTOR** is not on **CITY'S** Approved Contractors List or ***Contractor's Qualification Statement*** is not on file with the **CITY** prior to bid opening nor included as part of the bid package.
12. Failure to have an authorized agent of the bidder at a Pre-Bid Conference, when attendance is mandatory.

3.20 CONSIDERATION OF PROPOSALS

After bid packages are opened, the proposals will be tabulated for comparison based on the bid prices and quantities shown in the proposal.

3.21 CITY MAY REJECT BID PACKAGES

Until final award of the contract, the **CITY** reserves the right to reject any or all bid packages, to waive technicalities, and to re-advertise for new bids, or proceed to do the Work otherwise in the best interests of the **CITY** (TEX. LOC. GOV'T CODE ANN. §252.043(f); §271.027(a)).

3.22 AWARD OF CONTRACT

After all submitted bid packages have been opened and read aloud, the proposals submitted will be reviewed and tabulated in order from low to high bid. Upon request, a copy of the tabulation will be forwarded to each bidder submitting a qualified bid package.

The award of the contract, if it is awarded, will be to the lowest responsible bidder in accordance with the **General Conditions**. The tabulated bids, along with the recommendation of the Project Designer shall be placed on the agenda of a regularly scheduled City Council Meeting within sixty (60) calendar days of bid opening.

If the contract is awarded, it will be awarded to the lowest responsible bidder, but the contract may not be awarded to a bidder who is not the **lowest bidder** unless before the award, the **CITY** gives notice to each lower bidder of the proposed award and each lower bidder is given an opportunity to appear before the City Council, or the designated representative of the City Council, and present evidence concerning the bidder's responsibility. TEX. LOC. GOV'T CODE ANN. § 271.027. Notification of the City Council action will be issued to the affected bidders.

3.23 RETURN OF BIDDER'S BOND

As soon as bid prices have been tabulated for comparison of bids, the **CITY** may, at its discretion, return the proposal guarantees accompanying the bid packages which, in its judgment, would not be considered in the award; all other proposal guarantees will be retained by the **CITY** until the required contract and bonds have been executed, after which they will be returned. No proposal guarantees will be returned until at least two (2) calendar days have elapsed from time of opening bid packages.

3.24 SUBMISSION OF POST BID INFORMATION

Upon request by the **CITY**, the selected bidder must, within seven (7) calendar days thereafter, submit the following:

1. A designation of the Work to be performed by the bidder with the bidder's own forces.
2. A list of names of the subcontractors or other persons or organizations (including those who are to furnish materials or equipment fabricated to a special design) proposed for such portions of the Work as may be designated in the bidding documents or, if no portions are so designated, the names of the subcontractors proposed for stated portions of the Work.

The bidder will be required to establish to the satisfaction of the Project Designer and the **CITY** the reliability and responsibility of the proposed subcontractors to furnish and perform such portions of the Work. Prior to the award of the contract, the Project Designer will notify the

bidder in writing if either the **CITY** or the Project Designer, after due investigation, has reasonable and substantial objection to any person or organization on such list. Subcontractors and other persons and organizations proposed by the bidder and accepted by the **CITY** and the Project Designer must be used on the Work for which they were proposed and accepted and will not be changed except with the written approval of the **CITY** and the Project Designer.

3.25 CONTRACT BONDS

The **CONTRACTOR** is required, pursuant to TEX. GOV'T CODE ANN. § 2253.021, and/or the *Standard Form of Agreement* to execute all bonds before commencing the work. The contract shall not be in effect until **CONTRACTOR** executes the AGREEMENT and files with the **CITY** a good and sufficient *Statutory Performance and Maintenance Bond and Payment Bond* (when applicable) or *Payment Bond* on standard forms and in the amount equal to one hundred percent (100%) of the total amount of the contract. Such bonds are furnished by the **CONTRACTOR** and approved by the **CITY**.

A *Performance and Maintenance Bond and Payment Bond* shall be required for contract amounts in excess of one hundred thousand dollars (\$100,000).

Payment Bond shall be required for all projects regardless of value.

Within fifteen (15) calendar days after written notification of the award of the contract, the **CONTRACTOR** shall submit *Statutory Performance and Maintenance Bond and Payment Bond* (when applicable) or *Payment Bond* to **CITY** on standard forms as required by the AGREEMENT.

3.26 INSURANCE

CONTRACTOR agrees, at its sole expense, to maintain on a primary basis during the life of the Contract and the performance of Work, required insurance coverages, limits, and endorsements. Insurance required by the AGREEMENT for the **CITY** as additional insured shall be primary insurance and not contributing with any other insurance available to **CITY**.

CONTRACTOR agrees to provide evidence of the required coverages at execution of contract. In the event the **CONTRACTOR** performs any site work, other than testing, then all the insurance required will need to be evidenced prior to commencement of said site work.

3.27 EXECUTION OF CONTRACT

The person(s), partnership, company, firm, association or corporation to whom a contract is awarded must, within fifteen (15) calendar days after receipt of the contract, sign the necessary agreements entering into the required contract with the **CITY**. No contract will be binding on the **CITY** until it has been approved by the City Attorney, executed by the City Manager, attested by the City Clerk, and delivered to the **CONTRACTOR**.

3.28 FAILURE TO EXECUTE CONTRACT

The failure of the bidder to execute the required bonds or to sign the required contract within fifteen (15) calendar days after receipt of the contract will be considered by the **CITY** as an abandonment of the proposal and the **CITY** may annul the award. By reason of the uncertainty of the market prices of materials and labor, and it being impracticable and difficult to determine accurately the amount of damages accruing to the **CITY** by reason of said bidder's failure to

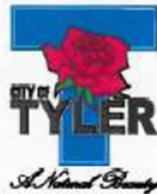
execute said bonds and contract within said fifteen (15) calendar days, the proposal guaranty accompanying the proposal will be the agreed amount of damages which the **CITY** will suffer by reason of such failure on the part of the bidder, and will thereupon immediately be forfeited to the **CITY**. The filing of a bid package will be considered as an acceptance of this provision.

3.29 BEGINNING OF WORK

The **CONTRACTOR** will not begin Work until notified in writing by the **CITY** to do so.

Section 4**POLICY STATEMENT ON EEO**

Edward Broussard
City Manager



The City of Tyler
Office of the City Manager
P.O. Box 2039
Tyler, Texas 75710-2039

Phone: (903) 531-1253
Fax: (903) 531-1166
www.cityoftyler.org

POLICY STATEMENT ON EQUAL EMPLOYMENT OPPORTUNITY

The City of Tyler takes positive steps to maintain and promote equal opportunity for all individuals. The following policy statement is to keep you advised of the commitment of the City of Tyler, Texas, toward equal employment opportunity and to ensure that none of its personnel policies, procedures or practices unlawfully discriminate against any individual.

You are urged to share this commitment in your employment practices and procedures.
2-1

Need for a policy

Equal opportunity for all people, without regard to race, color, religion, sex, age, disability, national origin or other protected status, is part of the American ideal. Local governments, as a mirror of public policy, can make vital contributions toward this ideal by taking affirmative action to provide equal employment opportunities for all.

Statement of Policy

It is the policy of the City to recruit, employ and provide compensation, promotion and other conditions of employment without regard to race, color, religion, sex, age, national origin, disability, genetic information or status as a Vietnam era or special disabled veteran, recently separated veteran and other protected veteran. The City affirms that employment decisions shall be made only on the basis of a person's ability to perform essential functions of the job. The City shall continually review its employment practices and personnel procedures to take positive steps to ensure that equality of employment opportunity in the City of Tyler, Texas is a fact as well as an ideal.

Application

Rose Ray, (rray@tylertexas.com) (903-531-1103), has been designated as EEO Coordinator with authority and responsibility to develop and recommend strategies to ensure the achievement of the intent of the Policy. This Policy shall be uniformly applied by all levels of management in every department, work unit and other component of the City.

Responsibility

Each department leader and supervisor is responsible for the application of this Policy within his/her component. This includes all supporting programs and practices developed in accordance with this Policy. All employees of the City are responsible for cooperating with any reviews, investigations and other activities initiated within the framework of this Policy. To achieve ultimate effectiveness in the application of this Policy, the cooperation, support and commitment of every employee is essential.


Edward Broussard
City Manager

Section 5 PROPOSAL

Proposal for CIP Contract to The City of Tyler, Texas

Date of Bid: _____

The undersigned, as bidder, in compliance with **CITY'S Notice To Bidders** for construction of:

City of Tyler Bid Number: #23-030
Project Name: Pollard Park Renovations

for the City of Tyler, Smith County, Texas, declares that the only person or parties interested in this proposal as principals are those named herein, that this proposal is made without collusion with any other person, firm, or corporation, that he has carefully examined the form of contract, **Instructions to Bidders**, specifications, and the plans therein referred to, and has carefully examined the locations, conditions, and classes of materials of the proposed work; and agrees that he will provide all the necessary labor, machinery, tools, apparatus, and other items incidental to construction, and will do all the work and furnish all the materials called for in the contract and specifications in the manner prescribed therein and according to the requirements of the Engineer as therein set forth, for the following unit prices.

It is understood that the following quantities of work to be done at unit prices are approximate only, and are intended principally to serve as a guide in evaluating bids.

It is further agreed that the following quantities of work to be done at unit prices and materials to be furnished may be increased or decreased as may be considered necessary, in the opinion of the Engineer, to complete the work fully as planned and contemplated, and that all quantities of work, whether increased or decreased are to be performed at the unit prices set forth below except as provided for in the specifications.

It is further agreed that lump sum prices may be increased by change order to cover additional work ordered by the Engineer, but not when on the plans or required by the specifications, or in accordance with the **General Conditions** and **Special Conditions** and requirements. Similarly, they may be decreased to cover deletion of work so ordered.

It is further agreed that the unit and lump sum prices shall be shown in words and figures for each item listed in this proposal, and in the event of discrepancy, the words shall control, and should the bid price on any item be completely omitted, the proposal will be considered incomplete, and the proposal will be disqualified. It is understood and agreed that the work is to be completed in full either:

- 1) within thirty, (30) working days after the date specified in the written **Notice to Proceed**, or
- 2) on or before the **mandatory completion** date of Enter mandatory completion date, subject to such extensions of time as are provided by the **General Conditions**.

Accompanying this proposal is a **Bid Bond**, Certified Check, or Cashier's Check payable to the City of Tyler for:

AMOUNT:

and

Dollars
 Cents

\$

The undersigned certifies that the bid prices contained in this proposal have been carefully checked and are submitted as correct and final.

Receipt is hereby acknowledged of the following addenda to the Contract Documents:

ADDENDUM NO. 1	Received
ADDENDUM NO. 2	Received
ADDENDUM NO. 3	Received
ADDENDUM NO. 4	Received
ADDENDUM NO. 5	Received

Bidder

Street Address

Signature

City, State, Zip

Printed Name

Telephone Number

Title

Date

BASE BID:

Bid Item	Quantity	Unit	Item Description and Written Unit Price	Unit Price	Amount
1	1	LS	MOBILIZATION of all equipment, security and safety measures, with all appurtenances, complete in place, for,		
				Dollars	
				Cents	\$
2	1	LS	DEMOLITION of all structures, pavement, vegetation and utilities indicated on the Plans, including hauling away, with all appurtenances, complete in place for,		
				Dollars	
				Cents	\$
3	1	LS	SURFACING & STRIPING TENNIS COURTS as indicated on the Plans, with all appurtenances, complete in place for,		
				Dollars	
				Cents	\$
4	1	LS	PROVIDE & INSTALL PICKLEBALL NETS & POSTS as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,		
				Dollars	
				Cents	¢
5	1	LS	EROSION CONTROL measures including SWPPP Plan and site inspection in accordance with TCEQ guidelines, including installation and removal, with all appurtenances, complete in place for,		
				Dollars	
				Cents	\$

6	1	LS	TREE PROTECTION as indicated on the Plans, including installation and removal, with all appurtenances, complete in place, for,			
				Dollars		
				Cents	\$	\$
7	1	LS	SITE GRADING, for the necessary installation of trail and grading of site to provide positive drainage and grades in compliance Texas Access Standards as indicated on the Plans, with all appurtenances, complete in place, for,			
				Dollars		
				Cents	\$	\$
8	1	LS	CONDUIT PIPE, as indicated on the Plans, including excavation, embankment, compaction, and fine grading, with all appurtenances, complete in place, for,			
				Dollars		
				Cents	\$	\$
9	1	EA	PROVIDE & INSTALL TENNIS NET as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,			
				Dollars		
				Cents	\$	\$
10	915	LF	10'-0" CONCRETE TRAIL, for the necessary installation of trail in compliance with Texas Access Standards as indicated on the Plans, with all appurtenances, complete in place, for,			
				Dollars		
				Cents	\$	\$

11	1,040	LF	6'-0" CONCRETE TRAIL, for the necessary installation of trail in compliance with Texas Access Standards as indicated on the Plans, with all appurtenances, complete in place, for,		
				Dollars	
				Cents	
12	285	LF	5'-0" CONCRETE TRAIL, for the necessary installation of trail in compliance with Texas Access Standards as indicated on the Plans, with all appurtenances, complete in place, for,	\$	\$
				Dollars	
				Cents	\$
13	1	LS	BERMUDAGRASS HYDROMULCH as indicated on the Plans, and all appurtenances, complete in place, for,		
				Dollars	
				Cents	\$
14	2	EA	PROVIDE & INSTALL 15' X 4 ROW BLEACHERS as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,		
				Dollars	
				Cents	\$
15	2	EA	PROVIDE & INSTALL 15' X 3 ROW BLEACHERS as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,		
				Dollars	
				Cents	\$

16	1	LS	PROVIDE & INSTALL NEW CHAIN LINK FABRIC – TENNIS/PICKLEBALL COURTS as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,			
				Dollars	\$	\$
				Cents		
17	1	LS	PAINT EXISTING FENCE SUPPORT POLES & LIGHT POLES – TENNIS/PICKLEBALL COURTS as needed to complete the painting of the items as indicated on the Plans, with all appurtenances, complete in place for,			
				Dollars	\$	\$
				Cents		
18	1	EA	PROVIDE CONCRETE SLAB – TENNIS/PICKLEBALL COURT BLEACHERS as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,			
				Dollars	\$	\$
				Cents		
19	1	LS	PROVIDE & INSTALL BASKETBALL COURT SLAB & STRIPING as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,			
				Dollars	\$	\$
				Cents		
20	2	EA	PROVIDE & INSTALL BASKETBALL BACKBOARDS, GOALS, RIMS, & NETS as needed to complete the installation of the items as indicated on the Plans, with all appurtenances, complete in place for,			
				Dollars	\$	\$
				Cents		

21	1	LS	CONSTRUCT PLAYGROUND BASE as needed to complete the installation of the items, as well as necessary drainage requirements, as indicated on the Plans, with all appurtenances, complete in place for,		
				Dollars	\$
				Cents	\$
22	370	LF	6'-0" CHAIN LINK FENCING, for the necessary installation of fence, standards as indicated on the Plans, with all appurtenances, complete in place for,		
				Dollars	\$
				Cents	\$
23	2	EA	STRIPE PARKING LOT, for the necessary striping of existing parking area, as well as ADA striping, with all appurtenances, complete in place, for,		
				Dollars	\$
				Cents	\$
24	1	ALW	INSTALL/REPAIR/REPLACE IRRIGATION SYSTEM, as needed to complete the installation of the items, with all appurtenances, complete in place, for,		
				Dollars	
				Cents	\$ 30,000 \$ 30,000

ADD ALTERNATES:

Bid Item	Quantity	Unit	Item Description and Written Unit Price	Unit Price	Amount
25	4	EA	PROVIDE & INSTALL AREA LIGHTS, with necessary wiring and connection to electrical panel, for the necessary installation of items as indicated on the Plans, with all appurtenances, complete in place, for,		
				Dollars	
				Cents	\$
26	1,600	SF	PROVIDE & INSTALL 40' X 40' PAVILION SLAB, for the necessary installation of items as indicated on the Plans, with all appurtenances, complete in place, for,		
				Dollars	\$
				Cents	\$

BID SUMMARY

BASE BID TOTAL

and

Dollars
 Cents

\$

ADD ALTERNATES TOTAL

and

Dollars
 Cents

\$

TOAL WITH ALTERNATES

(BASE BID TOTAL) + (ADD ALTERNATES) = TOTAL BID

and

Dollars
Cents

§

STATEMENT OF MATERIALS AND OTHER CHARGES

For purposes of complying with TEX. TAX CODE ANN. Title 2., Subtitle E., Chapter 151, Subchapter C. § 151.056; Subchapter H. § 151.301, § 151.309, § 151.311, the **CONTRACTOR** agrees that the charges for any material incorporated into the project in excess of the estimated quantity provided for herein will be no less than the invoice price for such material to the **CONTRACTOR**.

Value of Materials Incorporated Into the Project:

\$

Value of All Other Charges:

\$

*Total:

§

* This statement may be submitted with ***Proposal*** and the total must agree with the **total bid** figure shown in the Bid Summary section above.

Section 6 BID BOND**Check Here if this Section is NOT Used**

THE STATE OF TEXAS

§

BID BOND

COUNTY OF SMITH

§

THAT, _____ [contractor], as
PRINCIPAL, and _____ [surety], as
SURETY, acknowledge their indebtedness and are held and firmly bound unto the City of Tyler
(CITY), Texas in Smith County, as **OBLIGEE**, in the amount of

_____ [insert
figure using written words], (\$ _____) [insert numerical figure]
payable to the City of Tyler, Texas for the payment of which, the said **PRINCIPAL** (Contractor) and
SURETY bind themselves, and their heirs, administrators, executors, successors, legal
representatives, and assigns, jointly and severally, firmly by these presents.

PRINCIPAL (Contractor) is about to submit to **OBLIGEE** (City) a bid or proposal for:

City of Tyler Bid Number

#23-030

Project Name

Pollard Park Renovations

in accordance with plans and specifications filed in **OBLIGEE'S** (City's) office and under the
Request for Quotation (RFQ) / Request for Proposal (RFP) / Invitation to Bid therefor.

NOW THEREFORE:**THE CONDITION OF THIS OBLIGATION IS THAT IF:**

- 1) the bid or proposal is rejected, or
- 2) the bid or proposal of **PRINCIPAL** (Contractor) is accepted; and
 - a. the contract for the work is awarded to **PRINCIPAL** (Contractor) by **OBLIGEE** (City),
 - b. **PRINCIPAL** (Contractor) enters into a written contract in the form of contract provided in these contract documents (properly completed in accordance with the bid),
 - c. **PRINCIPAL** (Contractor) furnishes a **Performance and Maintenance Bond** for the performance of the work as required by law and/or the AGREEMENT,
 - d. **PRINCIPAL** (Contractor) furnishes a **Payment Bond** for the payment of all persons performing labor or furnishing materials in connection therewith as required by law and/or the AGREEMENT, and
 - e. **PRINCIPAL** (Contractor) in all other respects performs the agreement created by the acceptance of the bid,

then this obligation will be null and void; otherwise, subject to the following limitation, it will remain in full force and effect.

The limitation referred to above is that surety, in any event, will not be liable for a greater amount than the difference between the amount of principal's bid or proposal and the lowest amount in excess of that bid or proposal for which **CITY** may be able to award the contract within a reasonable time.

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 **OBLIGEE** (City) may accept such bid; and said **SURETY** does hereby waive notice of any such extension.

I (WE) CERTIFY that the **SURETY** is registered by the State Board of Insurance to conduct business in the State of Texas, and acceptable according to the latest list of companies holding Certificates of Authority from the Secretary of the Treasury of the United States, shown on the Treasury List.

I (WE) CERTIFY that the **SURETY** has reviewed the financial condition of the **PRINCIPAL** and the **PRINCIPAL'S** qualification to perform the work required by this project.

IN WITNESS WHEREOF the **PRINCIPAL** (Contractor) and **SURETY** have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereunto affixed and these presents to be signed by their proper officers, the day and year set forth below.

Signed this _____ day of _____, 20____.

BOND NUMBER: _____

PRINCIPAL (Contractor)

Printed Name of Principal

Physical Address

Mailing Address

Telephone Number

By:

Signature

Title

SURETY

Printed Name of Surety

Physical Address

Mailing Address

Telephone Number

By:

Signature

Title

SURETY'S SEAL:

***** NOTE *****

**If signed by an Attorney-in-Fact a copy of the Power of Attorney shall be attached, or
If signed by an officer of the Surety Company a certified extract from the by-laws showing
that this person has authority to sign obligation shall be attached.**

Section 7

STANDARD FORM OF AGREEMENT

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

THIS AGREEMENT, made and entered into this _____ day of _____, 20____, by and between the City of Tyler, Texas, of the County of Smith and State of Texas, hereinafter termed "CITY", acting through the City Manager, and *[insert name of Contractor]*, of the City of _____, the County of _____, the State of Texas, hereinafter termed "CONTRACTOR".

THAT FOR AND IN CONSIDERATION of the payments and mutual covenants set forth in this ***Standard Form of Agreement*** and under the conditions expressed in the contract documents and in the bond bearing even date herewith, **CONTRACTOR** hereby agrees with **CITY** as follows:

WITNESSETH:

7.1 DESCRIPTION OF WORK

CONTRACTOR will perform all the work required by the contract documents and said work shall be done under the supervision of the representative of the **CITY**. The work will consist of the completion of construction of certain improvements and all extra work in connection therewith, in accordance with the prices and conditions stated in the contract documents and at **CONTRACTOR'S** cost and expense to furnish all materials, supplies, machinery, equipment, tools, superintendence, labor, insurance, and other accessories and services necessary to complete the said construction.

7.1.1 If the Project is a “civil works” project, as defined by Sec. 2269.351 of Tex. Gov. Code Ann., then the *PROCEDURE FOR CORRECTING CONSTRUCTION DEFECTS* herein does NOT apply. “Civil works” projects are those related to roads, streets, bridges, utilities, water supply projects, water plants, waste water plants, water distribution and wastewater conveyance facilities, desalination projects, wharves, docks, airport runways and taxiways, storm drainage, flood control projects and transit projects.

7.1.2 If the Project is related to “public works” projects or construction contracts affecting City-owned buildings, then this contract IS SUBJECT TO ADDITIONAL PROVISIONS FOUND IN the *PROCEDURE FOR CORRECTING CONSTRUCTION DEFECTS* herein. “Public Works” is defined by Tex. Gov. Code Ann., Sec. 2269.001 (6) as a contract for constructing, altering, or repairing a public building or carrying out any public work.

7.1.3 If the **PROCEDURE FOR CORRECTING CONSTRUCTION DEFECTS** is applicable

and there is a conflict between any other clause in this Agreement and the **PROCEDURE**, the **PROCEDURE** shall control.

7.2 CONTRACT DOCUMENTS

The contract documents constitute the entire AGREEMENT between the CITY and CONTRACTOR, and all are as fully a part of the AGREEMENT as if attached to or repeated in this *Standard Form of Agreement*.

The contract documents are as follows:

Notice to Bidders,

All addenda issued prior to execution of this *Standard Form of Agreement*,

Instructions to Bidders,

CITY Policy Statement on Equal Opportunity Employment,

Proposal,

Bid Bond and Special Bonds (if any),

Standard Form of Agreement,

Statutory Performance and Maintenance Bond and ***Payment Bond*** (if applicable),

Payment Bond,

Certificate(s) of Insurance,

Endorsements,

Contractor's Affidavit of Bills Paid and Waiver and Lien Releases,

Procedure for Correcting Construction Defects (if applicable)

General Conditions,

Special Conditions,

CITY specifications governing water and/or sanitary sewer installation within the CITY titled *City of Tyler Standard Specifications*,

Trench Safety Systems,

Plans and other drawings and printed or written explanatory matter thereof, and

All field orders and change orders issued after execution of this *Standard Form of Agreement*.

In case of conflict between any of the contract documents, priority of interpretation shall be in the following order:

1. Signed *Standard Form of Agreement*,
2. *Performance and Maintenance Bond and Payment Bond* (if applicable) and/or *Payment Bond*,
3. Special Bonds (if any),
4. *Proposal*,
5. ***Special Conditions***,
6. ***Special Specifications***,
7. ***City of Tyler Standard Specifications***,
8. ***Technical Specifications***,
9. Plans, and
10. ***General Conditions***.

7.3 TIME OF COMMENCEMENT AND COMPLETION

CONTRACTOR hereby agrees to commence work within ten (10) calendar days after the date specified in the **Notice to Proceed**, to diligently pursue the work without extended interruption and to complete in full the same either:

- 1) within Enter amount using words, (Enter amount using figures) Choose an item after the date specified in the written **Notice to Proceed**, or
- 2) on or before the **mandatory completion** date of Enter mandatory completion date, subject to such extensions of time as are provided by the **General Conditions**.

7.4 CONTRACT PRICE

CITY agrees to pay to the **CONTRACTOR** the contract amount of _____ [insert figure using written words], (\$_____) [insert numerical figure] such payments to be subject to the **General Conditions** of the contract.

7.5 BONDS

The **CONTRACTOR** is required, pursuant to TEX. GOV'T CODE ANN. § 2253.021, and/or this **Standard Form of Agreement** to execute all bonds before commencing the work. The contract shall not be in effect until **CONTRACTOR** executes the AGREEMENT and files with the **CITY** a good and sufficient **Statutory Performance and Maintenance Bond and Payment Bond** (when applicable) or **Payment Bond** on standard forms and in the amount equal to one hundred percent (100%) of the total amount of the contract. Such bonds are furnished by the **CONTRACTOR** and approved by the **CITY**.

A **Performance and Maintenance Bond and Payment Bond** shall be required for contract amounts in excess of one hundred thousand dollars (\$100,000).

Payment Bond shall be required for all projects regardless of value.

Within fifteen (15) calendar days after written notification of the award of the contract, the **CONTRACTOR** shall submit **Statutory Performance and Maintenance Bond and Payment Bond** (when applicable) or **Payment Bond** to **CITY** on standard forms as required by the AGREEMENT.

See Section 16.7, "Bonds" in the **General Conditions** for a description and explanation of the bonds required for this AGREEMENT.

7.6 INSURANCE

CONTRACTOR agrees, at its sole expense, to maintain on a primary basis during the life of this Contract and the performance of Work hereunder, insurance coverages, limits, and endorsements. Insurance required by this AGREEMENT for the **CITY** as additional insured shall be primary insurance and not contributing with any other insurance available to **CITY**.

CONTRACTOR agrees to provide evidence of the required coverages at execution of contract. In the event the **CONTRACTOR** performs any site work, other than testing, then all the insurance required by AGREEMENT will need to be evidenced prior to commencement of said

site work.

*See Section 16.8, “Insurance Required” in the **General Conditions** for the contractual types and amounts of insurance and endorsements required for this AGREEMENT.*

See Section 10, “Certificate(s) of Insurance” for a chart and checklist providing a summary and overview of the insurance requirements.

See Section 11, “Endorsements” for a chart providing a summary and overview of the endorsement requirements.

In case of conflict between Section 10 and/or Section 11 and/or the insurance requirements described in the **General Conditions**, priority of interpretation shall be given first to the **General Conditions**.

7.7 CITY AND OTHERS INDEMNIFIED

CONTRACTOR AGREES TO INDEMNIFY, HOLD HARMLESS AND DEFEND THE **CITY**, ITS PROJECT DESIGNER, AND THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS, (COLLECTIVELY REFERRED TO AS THE “INDEMNIFIED PARTIES”) FROM AND AGAINST ALL LIABILITY FOR ANY AND ALL CLAIMS, LIENS, DEMANDS, AND DAMAGES OF EVERY KIND FOR INJURIES TO PERSONS INCLUDING DEATH, PROPERTY DAMAGE INCLUDING LOSS OF USE, AND EXPENSES INCLUDING ATTORNEY’S FEES (COLLECTIVELY, THE “HARM”) ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THIS AGREEMENT, BUT ONLY PROPORTIONALLY TO THE EXTENT THAT THE HARM WAS CAUSED BY THE NEGLIGENT OR INTENTIONAL ACTS OR OMISSIONS OF (I) **CONTRACTOR**, (II) ANY PERSON OR ENTITY ACTING BY OR THROUGH THE AUTHORITY OF THE **CONTRACTOR** IN FURTHERANCE OF THE PERFORMANCE OF THIS CONTRACT, AND/OR (III) ANY SUBCONTRACTOR, OR ANYONE FOR WHOSE ACTS THE **CONTRACTOR** OR SUBCONTRACTOR IS LIABLE, REGARDLESS OF WHETHER OR NOT SUCH HARM OCCURRED ON PROPERTY BELONGING TO THE **CITY**. THE **CONTRACTOR**’S INDEMNIFICATION OBLIGATION PROVIDED HEREIN SHALL SURVIVE THE EXPIRATION OR TERMINATION OF THIS AGREEMENT. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE **CONTRACTOR**’S INDEMNIFICATION OBLIGATIONS PROVIDED HEREIN SHALL SURVIVE AND BE ENFORCEABLE BY THE INDEMNIFIED PARTIES (SUBJECT TO THE PROPORTIONALITY LIMITATIONS SET FORTH IN THIS PARAGRAPH) DESPITE A DETERMINATION OR FINDING OF CONCURRENT, COMPARATIVE, OR CONTRIBUTORY NEGLIGENCE OF EITHER THE **CONTRACTOR** OR THE INDEMNIFIED PARTIES.

CONTRACTOR agrees to comply with the Worker’s Compensation Act of the State of Texas and to pay or cause to be paid all compensation, medical or hospital bills which may become due and payable thereunder, and to indemnify, hold harmless and defend **CITY** from and against any and all liability by reason of injury of employees of **CONTRACTOR**. **CONTRACTOR** shall furnish **CITY** with a Certificate from its Insurance Carrier evidencing **CONTRACTOR**’S compliance therewith (*see Section 16.8, “Insurance Required”*).

CONTRACTOR AGREES TO COMPLY WITH ABOVE REQUIREMENTS IN CONNECTION WITH SERVICES AND/OR WORK COVERED UNDER THIS PROJECT.

7.8 VENUE

This agreement shall be construed in accordance with the laws of the State of Texas and the ordinances of the City of Tyler. Venue for any action brought to enforce or interpret this agreement shall lie exclusively in a court of competent jurisdiction in Smith County, Texas for actions in state court, and in the Eastern District of Texas, Tyler Division, for actions in federal court.

7.9 AFFIDAVIT OF BILLS PAID AND FINAL PAYMENT TO CONTRACTOR

Pursuant to TEX. PROP. CODE ANN. § 53.085(a) and this ***Standard Form of Agreement*** **CONTRACTOR** shall furnish a ***Contractor's Affidavit of Bills Paid*** and executed ***Waiver and Lien Release forms*** to **CITY** stating that the work for the construction of said project has been satisfactorily completed; and that all bills for materials, supplies, apparatus, fixtures, machinery, labor, subcontractors, laborers and materialmen used in connection with the construction of this project have been fully paid.

Upon receipt of the notification of completion, the Project Designer shall proceed to make final measurements and prepare a final statement of the value of all work performed and materials furnished under the terms of the AGREEMENT and shall certify same to **CITY**, who shall pay to the **CONTRACTOR**, the balance due the **CONTRACTOR** under the terms of this ***Standard Form of Agreement***, provided he has fully performed his contractual obligations under the terms of the AGREEMENT; and said payment shall become due in any event upon said performance by the **CONTRACTOR**. Neither the ***Certificate of Acceptance*** nor the final payment, nor any provision in the contract documents, shall relieve the **CONTRACTOR** of the obligation for fulfillment of any warranty which may be required.

7.10 RESERVED

7.11 NOTICES

Any notices provided under this ***Standard Form of Agreement*** shall occur in writing. For purposes of such notice, the addresses of the parties, until changed by written notice, shall be:

CITY'S CONTACT:

Name

CONTRACTOR'S CONTACT:

Name _____

Address City of Tyler P.O. Box 2039 Tyler, TX 75710 Address

Phone (903) Enter phone number
here
FAX (903) Enter fax number here
E-mail Enter email address here

CITY and **CONTRACTOR** hereby bind themselves, their heirs, successors and assigns and representatives for the faithful and full performance of the terms and provisions of this contract, jointly and severally.

IN WITNESS WHEREOF, the parties to these presents have executed this *Standard Form of Agreement* in the year and day first above written.

FOR THE CITY OF TYLER, TEXAS:

ATTEST:

By: _____

City Manager

Edward Broussard _____

Printed Name

By: _____

City Clerk

Cassandra Brager _____

Printed Name

APPROVED:

By: _____

City Attorney's Office

Printed Name

RECOMMENDED:

By: _____

Department Leader

Enter printed name of Dept. Leader here

Printed Name

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

AGENDA ITEM NUMBER: _____

DATE CITY COUNCIL APPROVED: _____

FOR THE CONTRACTOR:**By:** _____

Title _____

Printed Name _____

THE STATE OF TEXAS

§

COUNTY OF SMITH

§

CONTRACTOR'S ACKNOWLEDGEMENT

BEFORE ME, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared _____, who is known to me, or who was proved to me through _____ to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the _____ day of ___, 20 ____.

Notary Public In and For The State of Texas

My Commission Expires: _____ Notary's Printed Name _____

Check Here if this Section is NOT Used

THE STATE OF TEXAS

**STATUTORY
PERFORMANCE AND MAINTENANCE BOND
AND
PAYMENT BOND**

COUNTY OF SMITH

PURSUANT TO

**CITY POLICY, AGREEMENT
AND/OR
TEX. GOV'T CODE, TITLE 10, CHAPTER § 2253**

THAT, _____ [contractor], as
PRINCIPAL, and _____ [surety], a
corporation organized and existing under the laws of the State of Texas, licensed to do business in
the State of Texas and admitted to write bonds, as **SURETY**, are held and firmly bound unto
the City of Tyler (**CITY**), Texas in Smith County, as **OBLIGEE**, in the amount of

[insert figure using written words], (\$_____) [insert numerical figure] payable to the City of Tyler, Texas for the payment of which, the said **PRINCIPAL** (Contractor) and **SURETY** bind themselves, and their heirs, administrators, executors, successors, legal representatives, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the **PRINCIPAL** (Contractor) has entered into a certain contract with the **OBLIGEE** (City), dated the _____ day of _____, 20____ [insert date from **Standard Form of Agreement**], for:

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

which contract is hereby referred to as the AGREEMENT and made a part hereof as fully and to the same extent as if copied at length herein;

WHEREAS, the performance bond guarantees the **OBLIGEE** (City) that the **PRINCIPAL** (Contractor) will fully and faithfully execute the Work and performance of the AGREEMENT according to its terms including price and time and is solely for the protection of the **OBLIGEE** (City) in the amount of the contract and conditioned on the faithful performance of the work in accordance with the plans, specifications, and contract documents;

WHEREAS, pursuant to TEX. GOV'T CODE ANN. § 2253.021 and the ***Standard Form of Agreement***, a performance bond is required when the contract amount is in excess of one hundred thousand dollars (\$100,000);

WHEREAS, the maintenance bond guarantees the **OBLIGEE** (City) that the **PRINCIPAL**

(Contractor) will guarantee the Work against faulty workmanship and/or materials for a specified period of time following completion of the AGREEMENT;

WHEREAS, pursuant to **CITY** policy and the *Standard Form of Agreement* a maintenance bond shall accompany the performance bond for the **PRINCIPAL** (Contractor) to guarantee the Work against faulty workmanship and/or materials for a maintenance period of a specified period of one (1) year after the date of final acceptance of the Work;

WHEREAS, the payment bond guarantees the **OBLIGEE** (City) that the **PRINCIPAL** (Contractor) shall pay all bills for materials and labor for work provided for in said AGREEMENT and is solely for the protection and use of payment bond beneficiaries who have a direct contractual relationship with the prime contractor or a subcontractor to supply public work, labor or material and in the amount of the contract;

WHEREAS, pursuant to TEX. GOV'T CODE ANN. § 2253.021, for contracts in excess of \$25,000 a payment bond is required; however, pursuant to **CITY** Policy and the *Standard Form of Agreement* a payment bond shall be required for ALL projects regardless of value;

WHEREAS, the **PRINCIPAL** (Contractor), is required by law, pursuant to TEX. GOV'T CODE ANN. § 2253.021 and/or the *Standard Form of Agreement*, to execute all bonds before commencing the Work.

NOW THEREFORE:

THE FIRST (1st) CONDITION OF THIS OBLIGATION IS SUCH, that if the said **PRINCIPAL** shall faithfully perform the Work required by and in accordance with the AGREEMENT then this obligation shall be null and void; otherwise it shall remain in full force and effect;

THE SECOND (2nd) CONDITION OF THIS OBLIGATION IS SUCH, that if the said **PRINCIPAL** (Contractor) shall faithfully perform the Work required by and in accordance with the AGREEMENT including any performance required of said **PRINCIPAL** (Contractor) for a maintenance period of one (1) year after the date of final acceptance of the work, then this obligation shall be null and void; otherwise it shall remain in full force and effect;

THE THIRD (3rd) CONDITION OF THIS OBLIGATION IS SUCH, that if the said **PRINCIPAL** (Contractor) shall pay all claimants supplying the labor and material to him or a subcontractor in the prosecution of the Work provided for in said AGREEMENT, then this obligation shall be null and void; otherwise it shall remain in full force and effect;

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Chapter 2253 of the TEX. GOV'T CODE ANN. and all liabilities on this bond shall be determined in accordance with the provision, conditions and limitations of said Chapter to the same extent as if it were copied at length herein.

SURETY, for value received, stipulates and agrees that no change, extension of time, alteration or addition to the terms of the AGREEMENT, or to the Work performed hereunder, or the plans, specifications, or drawings accompanying the same, shall in anywise affect its obligation on this bond, and **SURETY** does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the AGREEMENT, or to the Work performed thereunder.

The undersigned **SURETY** company represents that it is duly qualified to do business in Texas and is registered by the State Board of Insurance to conduct business in the State of Texas, and acceptable according to the latest list of the companies holding Certificates of Authority from the Secretary of the Treasury of the United States and hereby designates

_____ [insert Agent's name], an agent in Smith County to whom any requisite notices may be delivered and on whom service of process may be had in matters arising out of such suretyship and to establish venue in Smith County, Texas.

IN WITNESS WHEREOF, the said **PRINCIPAL** (Contractor) and **SURETY** have signed and sealed this instrument this _____ day of _____, 20 ____.

DATE OF BONDS MUST NOT BE PRIOR TO DATE ON *Standard Form of Agreement*

BOND NUMBER: _____

PRINCIPAL (Contractor)

Printed Name of Principal

Physical Address

Mailing Address

Telephone Number

By:

Signature

Title

SURETY

Printed Name of Surety

Physical Address

Mailing Address

Telephone Number

By:

Signature

Title

SURETY'S SEAL:

***** **NOTE** *****

If signed by an Attorney-in-Fact a copy of the Power of Attorney shall be attached, or

If signed by an officer of the Surety Company a certified extract from the by-laws showing that this person has authority to sign obligation shall be attached.

Section 9 PAYMENT BOND ONLY

Check Here if this Section is NOT Used

THE STATE OF TEXAS § **PAYMENT BOND**

§ PAYMENT BOND

• [View Details](#) [Edit](#) [Delete](#) [Print](#)

§ PURSUANT TO

§

COUNTY OF SMITH § **TEX. GOV'T CODE, TITLE 10, CHAPTER § 2253**

THAT, _____ [Contractor], as

PRINCIPAL, and _____ [surety], a corporation organized and existing under the laws of the State of Texas, licensed to do business in the State of Texas and admitted to write bonds, as **SURETY**, are held and firmly bound unto the City of Tyler (CITY), Texas in Smith County, as **OBLIGEE**, in the amount of

[insert figure using written words], (\$_____) [insert numerical figure] payable to the City of Tyler, Texas for the payment of which, the said **PRINCIPAL** (Contractor) and **SURETY** bind themselves, and their heirs, administrators, executors, successors, legal representatives, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the **PRINCIPAL** (Contractor) has entered into a certain contract with the **OBLIGEE** (City), dated the _____ day of _____, 20____ [insert date from **Standard Form of Agreement**], for:

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

which contract is hereby referred to as the AGREEMENT and made a part hereof as fully and to the same extent as if copied at length herein;

WHEREAS, the payment bond guarantees the **OBLIGEE** (City) that subcontractors and suppliers will be paid monies that they are due from the **PRINCIPAL** (Contractor) and is solely for the protection and use of payment bond beneficiaries who have a direct contractual relationship with the prime contractor or a subcontractor to supply public work, labor or material and in the amount of the contract;

WHEREAS, pursuant to TEX. GOV'T CODE ANN. § 2253.021, for contracts in excess of \$25,000 a payment bond is required; however, pursuant to **CITY** Policy and the ***Standard Form of Agreement*** a payment bond shall be required for ALL projects regardless of value;

WHEREAS, the **PRINCIPAL** (Contractor), is required, pursuant to TEX. GOV'T CODE ANN. § 2253.021, and/or the ***Standard Form of Agreement***, to execute the payment bond before commencing the Work.

NOW THEREFORE:

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the said **PRINCIPAL** (Contractor) shall pay all claimants supplying the labor and material to him or a subcontractor in the prosecution of the Work provided for in said AGREEMENT, then this obligation shall be null and void; otherwise it shall remain in full force and effect;

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of TEX. GOV'T CODE ANN. Chapter 2253 and all liabilities on this bond shall be determined in accordance with the provision, conditions and limitations of said Chapter to the same extent as if it were copied at length herein.

SURETY, for value received, stipulates and agrees that no change, extension of time, alteration or addition to the terms of the AGREEMENT, or to the Work performed hereunder, or the plans, specifications, or drawings accompanying the same, shall in anywise affect its obligation on this bond, and **SURETY** does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the AGREEMENT, or to the Work performed thereunder.

The undersigned **SURETY** company represents that it is duly qualified to do business in Texas and is registered by the State Board of Insurance to conduct business in the State of Texas, and acceptable according to the latest list of the companies holding Certificates of Authority from the Secretary of the Treasury of the United States and hereby designates

_____ [*insert Agent's name*], an agent in Smith County to whom any requisite notices may be delivered and on whom service of process may be had in matters arising out of such suretyship and to establish venue in Smith County, Texas.

IN WITNESS WHEREOF, the said **PRINCIPAL** (Contractor) and **SURETY** have signed and sealed this instrument this _____ day of _____, 20 ____.

DATE OF BONDS MUST NOT BE PRIOR TO DATE ON *Standard Form of Agreement*

BOND NUMBER: _____

PRINCIPAL (Contractor)

Printed Name of Principal

Physical Address

Mailing Address

Telephone Number

By:

Signature

Title

SURETY

Printed Name of Surety

Physical Address

Mailing Address

Telephone Number

By:

Signature

Title

SURETY'S SEAL:

***** **NOTE** *****

If signed by an Attorney-in-Fact a copy of the Power of Attorney shall be attached, or

If signed by an officer of the Surety Company a certified extract from the by-laws showing that this person has authority to sign obligation shall be attached.

Section 10 CERTIFICATE(S) OF INSURANCE

[Certificate of Liability Insurance Shall Be Inserted Here]

TYPE	INSURANCE COVERAGE REQUIRED	* Endorsement Required
		AMOUNT
1) COMMERCIAL GENERAL LIABILITY * Policy shall include (but not limited to) the following: a) Products - Completed Operations b) Independent Contractors c) Broad Form Property Damage d) X-C-U Coverage X = Explosion Hazard C = Collapse Hazard U = Underground Damage e) Contractual Liability or Cross Liability	Not Less than: \$1,000,000 (1 million) Each Occurrence \$2,000,000 (2 million) General Aggregate Per Project Any Self-Insured-Retention or Deductible shall not exceed \$25,000.	
2) BUSINESS AUTOMOBILE LIABILITY Policy shall include (but not limited to) bodily injury and property damage liability for the following: a) Any Auto; OR b) All Owned Autos, and c) Hired Autos, and d) Non-Owned Autos.	Not Less than: \$1,000,000 (1 million) Each Occurrence	
3) ♦ CONTRACTOR'S PROFESSIONAL ERRORS & OMISSIONS LIABILITY Policy shall include (but not limited to) the following: a) A minimum three (3) year Discovery (tail) Reporting period, and b) A Retroactive Date that equals or precedes the effective date of the Contract, or the performance of services hereunder.	♦ <input type="checkbox"/> Check Here If Contract Includes Professional/Design Liability Exposures or If Coverage is otherwise required by a City Operational Department Not Less than: \$1,000,000 (1 million) Each Occurrence \$2,000,000 (2 million) General Aggregate Any Self-Insured-Retention or Deductible shall not exceed \$25,000.	
4) ♦ INLAND MARINE BUILDER'S RISK INSURANCE * Policy shall include (but not limited to) the following: a) Amended Policy period of no less than twenty-two (22) months or estimated project length whichever is longer.	♦ <input type="checkbox"/> Check Here If Coverage is Required by a City Operational Department An amount at least equal to one-hundred percent (100%) of the projected completed value of the Work, as well as subsequent modifications of that sum due to Change Orders.	
5) ♦ CONTRACTOR'S POLLUTION LIABILITY INSURANCE *	♦ <input type="checkbox"/> Check Here If Coverage is Required by a City Operational Department Not Less than: \$1,000,000 (1 million) Each Occurrence \$2,000,000 (2 million) General Aggregate	
6) COMMERCIAL UMBRELLA / EXCESS LIABILITY *	Not Less than: \$5,000,000 (5 million) Each Occurrence \$5,000,000 (5 million) General Aggregate Any Self-Insured-Retention or Deductible shall not exceed \$25,000.	

TYPE	INSURANCE COVERAGE REQUIRED	* Endorsement Required
	AMOUNT	
7) WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY	Statutory Limits for Workers' Compensation TEX. LAB. CODE ANN. Title 5, Subtitle A, Chapter 401 TEX. ADMIN. CODE, Title 28, Part 2 Employer's Liability Limits \$1,000,000 (1 million) Bodily Injury by Accident \$1,000,000 (1 million) Bodily Injury by Disease Each Occurrence \$1,000,000 (1 million) Bodily Injury by Disease Aggregate Limit	

Checklist: Certificate(s) of Insurance

* Provided only as a courtesy *

[See generally Section 16.8 General Conditions for contract insurance requirements]

1. All pages of the *Certificate of Liability Insurance* shall be attached.
See lower right corner of certificate for *ex toto* pagination. E.g. Page 1 of 2
2. Policy Effective and Expiration Dates (for each type of coverage)

Policy **effective date** is ON or BEFORE Contract date, and
Policy **expiration date** should extend at least 6 months into the future OR for the estimated project length, whichever is greater.
3. General Liability [See Section 16.8.3]
 Occurrence Box is Checked
 Per Project Box is Checked for General Aggregate Limit.
4. Automobile Liability [See Section 16.8.4]
At a minimum each of the following boxes should be checked:
 Any Auto
OR
 All Owned Autos, and
 Hired Autos, and
 Non-Owned Autos.
5. Excess/Umbrella Liability [See Section 16.8.8]
 Occurrence Box is Checked
6. Workers Compensation and Employers Liability [See Section 16.8.15]
 WC Statutory Limits Box is Checked
7. Look at the “Description of Operations . . . Special Provisions” Box.
[See Section 16.8.9] [See also Section 16.8.11]

Clearly indicate the **CITY** has been endorsed by using this language:

“The City of Tyler (i.e. Certificate Holder) shall be named as Additional Insured as respects to General Liability and Auto and shall have a Waiver of Subrogation as respects to General Liability, Auto and Workers’ Compensation all as required by written contract subject to policy terms, conditions and exclusions. Coverage is primary, non-contributory as respects to General Liability and Auto as required by written contract.”
8. Clearly identify each policy’s limits, flat & percentage deductibles, sub-limits, or self-insured retentions, which exceed the amounts or percentages set forth herein.
9. Certificate Holder: [See generally Section 16.8] [See Section 16.8.9]
City of Tyler
P.O. Box 2039
Tyler, TX 75710

Section 11 ENDORSEMENTS

[Endorsements Shall Be Inserted Here]

* ENDORSEMENT(S) REQUIRED	
Name of Additional Insured Person(s) or Organization(s): City of Tyler P.O. Box 2039 Tyler, TX 75710	Location(s) of Covered Operations: Project [insert project name], City of Tyler Bid Number [insert bid number], Dated [insert month and year of contract].

Contractor shall choose one of the three Endorsement Option stated below. All Endorsements shall be in the form required. All pages of the Endorsement(s) shall be attached.

COMMERCIAL GENERAL LIABILITY

CONTRACTOR agrees to endorse the **CITY** as an “Additional Insured” on the Commercial General Liability with: [Select Option 1, Option 2 or Option 3 below] [See Section 16.8.3 and 16.8.9]

Option 1	<p>FORM: CG 20 10 10 01 <u>Additional Insured - Owners, Lessees, or Contractors – Scheduled Person or Organization</u> AND FORM: CG 20 37 07 04 <u>Additional Insured – Owners, Lessees, or Contractors – Completed Operations</u></p>
	OR
Option 2	<p>FORM: CG 20 10 07 04 <u>Additional Insured – Owners, Lessees, or Contractors – Scheduled Person or Organization</u> AND FORM: CG 20 37 07 04 <u>Additional Insured – Owners, Lessees, or Contractors – Completed Operations</u></p>
	OR
Option 3	<p>FORM: ISO/PROPRIETARY FORM STATING SAME OR SUBSTANTIALLY SIMILAR LANGUAGE AS CG 20 10 07 04/CG 20 10 10 01 AND THAT PROVIDES THE SAME OR BETTER COVERAGE. <u>Additional Insured – Owners, Lessees, or Contractors – Scheduled Person or Organization</u> <u>– Your Work</u> AND FORM: ISO/PROPRIETARY FORM STATING SAME OR SUBSTANTIALLY SIMILAR LANGUAGE AS CG 20 37 07 04 AND THAT PROVIDES THE SAME OR BETTER COVERAGE. <u>Contractors’ Commercial General Liability Broadened – with coverage for Completed Operations in conformance to specific written contract</u></p>
	COMMERCIAL UMBRELLA / EXCESS LIABILITY

CONTRACTOR agrees to endorse the **CITY** as an “Additional Insured” under the Commercial Umbrella / Excess Liability as also provided herein. [See Section 16.8.8 and 16.8.9]

INLAND MARINE BUILDER’S RISK INSURANCE

♦ If applicable **CONTRACTOR** agrees to endorse the **CITY** as an “Additional Insured” under the Inland Marine Builders Risk Insurance as also provided herein. [See Section 16.8.6 and 16.8.9]

Section 12 CONTRACTOR'S AFFIDAVIT OF BILLS PAID

THIS AFFIDAVIT is made for the purpose of obtaining balance due from City of Tyler, "CITY", on the construction work described herein provided the **CONTRACTOR** has fully performed his contractual obligations under the terms of the AGREEMENT.

I, _____ [Name of Affiant], do solemnly swear or affirm that I am the legal representative of _____ [Contractor's Company / Corporation Name], the City of _____, the County of _____, the State of _____, and that the work for the construction of the project designated below has been satisfactorily completed:

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

Additionally, I do solemnly swear or affirm:

All bills for materials, supplies, apparatus, fixtures, machinery, labor, subcontractors, laborers and materialmen used in connection with the construction of this project have been fully paid.

OR

The following bills have **not** been fully paid (attach additional pages if necessary):

<u>Name</u>	<u>Amount Owed</u>	<u>Telephone</u>	<u>Address</u>
	\$		
	\$		
	\$		

Signature of Contractor

Sworn to and subscribed before me by *Affiant* on the _____ day of _____, 20____

Notary Public In and For The State of Texas

My Commission Expires: _____ Notary's Printed Name _____

Section 13 **RESERVED**

Section 14 WAIVER AND RELEASE

CONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

On receipt by the signer of this document of a check from _____ [Maker of Check] in the sum of \$ _____ payable to _____ [Payee(s) of Check] and when the check has been properly endorsed and has been paid by the bank on which it is drawn, this document becomes effective to release any mechanic's lien right, any right arising from a payment bond that complies with a state or federal statute, any common law payment bond right, any claim for payment, and any rights under any similar ordinance, rule, or statute related to claim or payment rights for persons in the signer's position that the signer has on the property of [Owner] located at _____ [Location] to the following extent: _____ [Job Description].

This release covers the final payment to the signer for all labor, services, equipment, or materials furnished to the property or to _____ *[Person with Whom Signer Contracted]*.

Before any recipient of this document relies on this document, the recipient should verify evidence of payment to the signer.

The signer warrants that the signer has already paid or will use the funds received from this final payment to promptly pay in full all of the signer's laborers, subcontractors, materialmen, and suppliers for all work, materials, equipment, or services provided for or to the above referenced project up to the date of this waiver and release.

Date _____ (Company name)

By _____ (Signature)
(Title)

NOTICE:

This document waives rights unconditionally and states that you have been paid for giving up those rights. It is prohibited for a person to require you to sign this document if you have not been paid the payment amount set forth below. If you have not been paid, use a conditional release form.

UNCONDITIONAL WAIVER AND RELEASE ON FINAL PAYMENT

City of Tyler Bid Number #23-030
Project Name Pollard Park Renovations

The signer of this document has been paid in full for all labor, services, equipment, or materials furnished to the property or to _____ [Person with Whom Signer Contracted] on the property of _____ [Owner] located at _____ [Location] to the following extent: _____ [Job]

Description]. The signer therefore waives and releases any mechanic's lien right, any right arising from a payment bond that complies with a state or federal statute, any common law payment bond right, any claim for payment, and any rights under any similar ordinance, rule, or statute related to claim or payment rights for persons in the signer's position.

The signer warrants that the signer has already paid or will use the funds received from this final payment to promptly pay in full all of the signer's laborers, subcontractors, materialmen, and suppliers for all work, materials, equipment, or services provided for or to the above referenced project up to the date of this waiver and release.

Date _____ (Company name)

By _____ (Signature)
(Title)

Section 15 **PROCEDURE FOR CORRECTING CONSTRUCTION DEFECTS**

Check Here if this Section IS Applicable to This Contract

****ONLY APPLICABLE FOR CONSTRUCTION ACTIVITIES AFFECTING CITY-OWNED BUILDINGS AND OTHER PUBLIC WORKS PROJECTS AS DEFINED IN TEX. GOV. CODE ANN., SEC. 2269.001 (6)****

This PROCEDURE is not applicable to “civil works” projects as defined in Tex. Gov. Code Ann., Sec. 2269.351

I. DEFINITIONS

- A. **“Public Works”** projects, as defined in Tex. Gov. Code Ann., Sec. 2269.001 (6), are those related to constructing, altering, or repairing a public building or carrying out any public work.
- B. **“Civil works”** projects, as defined in Tex. Gov. Code Ann., Sec. 2269.351 are those related to roads, streets, bridges, utilities, water supply projects, water plants, waste water plants, water distribution and wastewater conveyance facilities, desalination projects, wharves, docks, airport runways and taxiways, storm drainage, flood control projects and transit projects.

II. NOTIFICATION OF DEFECT

- A. **ENGINEER/ARCHITECT SHALL NOTIFY OWNER IN WRITING OF ANY CONSTRUCTION DEFECT** of which the ENGINEER is aware, and which shall include any deficiency in the construction of an improvement to real property, including a deficiency in or arising out of the design, specifications, surveying, planning or supervision of the construction that is a result of:
 - i. The use of defective materials, products, or components in the construction;
 - ii. A violation of a building code applicable by law to the construction;
 - iii. A failure of the design of an improvement to real property to meet the professional standards of care applicable at the time of governmental approval of the design or as otherwise applicable if no governmental approval of the design was required or obtained; and/or
 - iv. A failure to perform the construction in accordance with the accepted trade standards for good and workmanlike construction.
- B. The E/A’s writing shall identify the specific construction defect, describe the present physical condition of the affected structure; and describe any modification, maintenance, or repairs to the affected structure made by the governmental entity or others since the affected structure was initially occupied or used.

III. PROCEDURE TO CORRECT CONSTRUCTION DEFECTS

- A. Before bringing an action asserting a claim for a construction defect under this Agreement, the OWNER must:
 - i. Provide a written report. A written report shall be provided to each party with whom the OWNER has a contract for the design, construction or construction oversight of an affected structure by certified mail, return receipt requested.
 - ii. Contents of Report. The report shall clearly identify the specific construction defect(s) of which the claim is based, which shall include any deficiency in the construction of an

improvement to real property, including a deficiency in or arising out of the design, specifications, surveying, planning, or supervision of the construction that is a result of:

- a. The use of defective materials, products, or components in the construction;
- b. A violation of a building code applicable by law to the construction;
- c. A failure of the design of an improvement to real property to meet the professional standards of care applicable at the time of governmental approval of the design or as otherwise applicable if no governmental approval of the design was required or obtained; and/or
- d. A failure to perform the construction in accordance with the accepted trade standards for good and workmanlike construction.

- iii. The report shall:
 - a. Identify the specific construction defect on which the claim is based;
 - b. Describe the present physical condition of the affected structure; and
 - c. Describe any modification, maintenance, or repairs to the affected structure made by the governmental entity or others since the affected structure was initially occupied or used.

B. OWNER shall allow each party with whom the OWNER has a contract for the design or construction of an affected structure and who is subject to the claim, and any known subcontractor or supplier who is subject to the claim a reasonable opportunity to inspect any construction defect or related condition identified in the report for a period of 30 days after receiving the report.

C. OWNER shall allow at least 120 days *after* the inspection to:

- i. Correct any construction defect or related condition identified in the report; or
- ii. Enter into a separate agreement with the governmental entity to correct any construction defect or related condition identified in the report.

D. OWNER is not required to allow a party to make a correction or repair under Subsection B. if the party:

- i. Is a contractor and cannot provide payment and performance bonds to cover the corrective work; and/or
- ii. Cannot provide liability insurance or workers' compensation insurance; and/or
- iii. Has been previously terminated for cause by OWNER; and/or
- iv. Has been convicted of a felony; or

E. OWNER is not required to allow a party to make a correction or repair under Subsection II.C.i. if OWNER previously complied with the process required by Subsection II.A. regarding a construction defect or related condition identified in the report and:

- i. The defect or condition was not corrected as required by Subsection II.C.i. or by an agreement under Subsection II.C.ii.; or
- ii. The attempt to correct the construction defect or related condition identified in the report resulted in a new construction defect or related condition.

F. Recovery of Report Costs. If the report described in Subsection II.A. identifies a construction defect that is corrected or for which the OWNER recovers damages, the party responsible for that construction defect shall pay the reasonable amounts incurred by OWNER to obtain the report with respect to identification of that construction defect.

G. These provisions do not prohibit or limit the OWNER from making emergency repairs to the property as necessary to protect the health, safety, and welfare of the public or a building occupant.

Section 16

GENERAL CONDITIONS

General Conditions of Agreement for Capital Improvement Project (CIP) Contracts

16.1 DEFINITIONS OF TERMS

16.1.1 Addenda

Written or graphic instrument issued prior to the opening of bid packages which clarify, correct or change the bidding requirements or contract documents.

16.1.2 Agreement

The entire “AGREEMENT” between the **CITY** and **CONTRACTOR** including all contract documents.

16.1.3 Calendar Day

Any day of the week or month, no days being excepted.

16.1.4 Change Order

A document recommended by the Project Designer, which is signed by the **CONTRACTOR** and **CITY** and which authorizes an addition, deletion or revision of the Work which requires an adjustment in the contract price or contract times, issued on or after the effective date of the AGREEMENT.

16.1.5 City

The word “**CITY**” in these documents shall be understood as referring to the City of Tyler, Texas, a municipal corporation acting through the City Manager or his/her designee, officers, agents or employees.

16.1.6 Contract Documents

The contract documents constitute the entire AGREEMENT between the **CITY** and **CONTRACTOR**.

16.1.7 Contract Price

The moneys payable by **CITY** to **CONTRACTOR** for completion of the Work in accordance with the contract documents as stated in the *Standard Form of Agreement*.

16.1.8 Contract Time

The number of days stated in the *Standard Form of Agreement* to achieve final completion so that it is ready for final payment as evidenced by the Project Designer’s written recommendation of final payment.

16.1.9 Contractor

The individual, firm, corporation, or other business entity with whom **CITY** has entered into this AGREEMENT for performance of the Work (see Section 16.3, “Responsibilities of the Contractor”).

16.1.10 Extra Work

All work that may be required by the **CITY** to be done by the **CONTRACTOR** to accomplish any addition, deletion or revision to the Work not originally shown on the plans, reasonably implied by the specifications or covered by the **CONTRACTOR'S** proposal (*see* Section 16.14, “Extra Work and Claims”).

16.1.11 Field Order

A written order issued by the Project Representative which orders minor changes in the Work but which does not involve a change in the contract price or contract time.

16.1.12 Final Completion (a.k.a. Complete in Full or Completed in Full)

The point when the **CITY** determines that all Work has been completed and final payment to **CONTRACTOR** will be made in accordance with the contract documents.

16.1.13 Notice to Proceed

A written notice by the **CITY** to the **CONTRACTOR** fixing the date on which the contract time will commence and run and which on or before **CONTRACTOR** shall start to perform.

16.1.14 Reserved**16.1.15 Ozone Action Day**

Any day between May 3 through September 30, inclusive, in which the eight (8)-hour concentration of ozone is expected to reach or exceed a target level of seventy-six (76) parts per billion (ppb), as determined by the Texas Commission on Environmental Quality (TCEQ). Notification of an Ozone Action Day will result in the implementation of the City of Tyler's Ozone Action Plan (*see* Section 16.11.4, “Ozone Action Day”).

16.1.16 Proposal

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

16.1.17 Project Designer

The individual, firm or corporation, including their representatives, retained by the **CITY** to design and/or engineer the project. Nothing contained in the contract documents shall create any contractual or agency relationship between the Project Designer and the **CONTRACTOR** (*see* Section 16.4, “Responsibilities of the Project Designer”).

16.1.18 Project Representative

The authorized representative of the **CITY** during the performance of the Work by the **CONTRACTOR** (*see* Section 16.5, “Responsibilities of the Project Representative”).

16.1.19 Rain Day

Under a calendar day contract, a rain day is a day of normal precipitation for which no extension of time will be granted (*see* Section 16.12.5, “Inclement Weather”).

16.1.20 Standard Specifications

The standard specifications for the **CITY** are the City of Tyler Standard Specifications, the latest

edition in effect at time of bidding and the Texas Department of Transportation Standard Specifications for Construction of Highways, Streets and Bridges, the latest edition in effect at time of bidding except where specifically superseded in the City of Tyler Standard Specifications and/or City of Tyler Standard Details, both of which are hereby made a part of this contract by reference, unless otherwise specified, and in such force and effect as if contained at length herein.

16.1.21 Sub-Contractor

An individual, firm, corporation, or other business entity having a direct contract with the **CONTRACTOR** for the performance of a portion of the Work under the contract.

16.1.22 Substantial Completion

The point when the Work has been made suitable for use or occupancy or is in a condition to serve its intended purpose, but still may require minor miscellaneous work and adjustment.

16.1.23 Supplier

A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with **CONTRACTOR** or with any Subcontractor to furnish materials or equipment to be incorporated into the Work by **CONTRACTOR** or Subcontractor.

16.1.24 Traffic Engineer

The person employed by, and named as such by, the City of Tyler, or his/her designee.

16.1.25 Work

The entire completed construction required to be furnished under the contract documents. Work includes, and is the result of furnishing, all materials, supplies, machinery, equipment, tools, superintendence, labor, services, insurance, and all water, light, power, fuel, transportation and other facilities necessary for the execution and completion of the Work covered by the contract documents. Unless otherwise specified, all materials shall be new and both workmanship and materials shall be of a good quality. The **CONTRACTOR** shall, if required, furnish satisfactory evidence as to the kind and quality of materials. Materials or work described in words which so applied have a well-known technical or trade meaning shall be held to refer to such recognized standards.

16.1.26 Working Day

Any day not including Saturdays, Sundays or any legal holidays as designated by the City of Tyler, in which weather or other conditions, not under the control of the **CONTRACTOR**, will permit construction of the principal units of the Work for a period of not less than seven (7) continuous hours between 7:00 a.m. and 6:00 p.m. A "Principal Unit of Work" is hereby defined as any item of work for which there is a bid item specifically set up for payment in the contract.

16.1.27 Working Hours

All Work shall be done between 7:00 a.m. and 6:00 p.m., Monday through Friday excluding holidays, unless authorized by the Project Representative. However, emergency Work may be done without prior permission. If night Work is authorized and conditions under **CONTRACTOR'S** control will permit Work for a continuous period of not less than seven (7) hours between 12:00 a.m. and 11:59 p.m. it will be considered a Working Day. Night Work may be revoked at any time by the **CITY** if the **CONTRACTOR** fails to maintain adequate

equipment and supervision for the prosecution and control of the night Work.

16.1.28 Written Notice

Written notice shall be deemed to have been duly served if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by mail to the last business address known to the party by whom notice is given.

16.2 RESPONSIBILITIES OF THE CITY

16.2.1 Collateral Contracts

The **CITY** agrees to provide by separate contract or otherwise, all labor and material essential to the completion of the Work specifically excluded from this contract, in such manner as not to delay the progress of the Work, or damage said **CONTRACTOR**, except where such delays are specifically mentioned elsewhere in the contract documents.

16.2.2 Easements and Right-of-Way

Easements and right-of-way, where required, will be provided by the **CITY**.

16.3 RESPONSIBILITIES OF THE CONTRACTOR

16.3.1 Contractor's Understanding

It is understood and agreed that the **CONTRACTOR** is, after careful examination, satisfied as to the nature and location of the Work, the conformation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the prosecution of the Work, the general and local conditions, and all other matters which can in any way affect the Work under this contract. No verbal agreement or conversation with any officer, agent or employee of the **CITY** or Project Designer either before or after the execution of this contract shall affect or modify any of the terms or obligations herein contained.

16.3.2 Keeping Plans and Specifications Accessible

The Project Designer shall furnish the **CONTRACTOR** with an adequate and reasonable number of copies of all plans and specifications without expense to the **CONTRACTOR**, and the **CONTRACTOR** shall keep a minimum of one copy of the same constantly accessible on the Work, with the latest revisions noted thereon.

16.3.3 Right of Entry

The **CITY** reserves the right to enter the property or location on which the Works herein contracted for are to be constructed or installed, by such agent or agents as the **CITY** may elect, for the purpose of inspecting the Work, or for the purpose of constructing or installing such collateral work as said **CITY** may desire.

16.3.4 Contractor's Duty and Superintendence

The **CONTRACTOR** shall give adequate attention to the faithful prosecution and completion of

this contract and shall keep on the Work, during its progress, a competent superintendent and any necessary assistants. The superintendent shall represent the **CONTRACTOR** in the **CONTRACTOR'S** absence and all directions given to the superintendent shall be as binding as if given to the **CONTRACTOR**. In the absence of the superintendent from the job site, an acting-superintendent shall be appointed to be in full charge of the Work.

The **CONTRACTOR** is and at all times shall remain an independent contractor, solely responsible for the manner and method of completing the Work under this contract, with full power and authority to select the means, method and manner of performing such Work, so long as such methods do not adversely affect the completed improvements, with the **CITY** and Project Representative being interested only in the result obtained and conformity of such completed improvements to the plans, specifications and contract.

Likewise, the **CONTRACTOR** shall be solely responsible for the safety all employees and other persons, as well as for the protection of the safety of the improvements being erected and the property of the **CONTRACTOR** or any other person, as a result of the operations hereunder. Engineering and/or supplemental construction drawings and specifications, as well as any additional information concerning the Work to be performed, passing from or through the Project Designer shall not be interpreted as requiring or allowing the **CONTRACTOR** to deviate from the plans and specifications, the intent of such drawings, specifications or any other such instructions being to define with particularity the agreement of the parties as to the Work the **CONTRACTOR** is to perform. The **CONTRACTOR** shall be fully and completely liable, at the **CONTRACTOR'S** own expense, for design, construction, installation and use, or non-use, of all items and methods incident to performance of the contract, and for all loss, damage or injury, including death, incident thereto, either to person or property, including, without limitation, the adequacy of all temporary supports, shoring, bracing, scaffolding, machinery or equipment, safety precautions or devices, and similar items or devices used by the **CONTRACTOR** during construction.

Any review of Work in process, or any visit or observation during construction, or any clarification of plans and specifications, by the **CITY** or Project Designer, or any agent, employee, or representative of them, whether through personal observation on the project site or by means of approval of shop drawings for temporary construction or construction processes, or by other means or method, is agreed by the **CONTRACTOR** to be for the purpose of observing the extent and nature of Work completed or being performed, as measured against the drawings and specifications constituting the contract, or for the purpose of enabling the **CONTRACTOR** to more fully understand the plans and specifications so that the completed construction Work will conform thereto, and shall in no way relieve the **CONTRACTOR** from full and complete responsibility for the proper performance of the Work on the project, including but without limitation the propriety of means and methods of the **CONTRACTOR** in performing said contract, and the adequacy of any designs, plans or other facilities for accomplishing such performance. Deviation by the **CONTRACTOR** from the plans and specifications that may have been in evidence during any such visitation or observation by the **CITY** or Project Designer, or any of their representatives, whether called to the **CONTRACTOR'S** attention or not shall in no way relieve the **CONTRACTOR** from the responsibility to complete all Work in accordance with said plans and specifications.

16.3.5 Character of Workers

The **CONTRACTOR** agrees to employ only orderly and competent workers, skillful in the performance of the type of work required under this contract to do the Work; and agrees that

whenever the Project Representative shall inform the **CONTRACTOR** in writing that any worker or workers are, in the Project Representative's opinion, incompetent or disorderly, such worker or workers shall be discharged from the Work and shall not again be employed on the Work without the Project Representative's written consent.

16.3.6 Assignment and Subcontracting

The **CONTRACTOR** may assign or subcontract portions of the Work in accordance with the **Instructions to Bidders**. However, the **CONTRACTOR** shall not employ any subcontractor against whom the **CITY** may have a reasonable objection.

16.3.7 Subsurface Conditions

Unless otherwise noted in the plans or specifications, the **CITY** has made no investigation of subsurface conditions within the project limits and makes no representation regarding the presence or absence of groundwater, unstable soils, or any other unfavorable hydrologic or geologic conditions within the project area. It shall be the **CONTRACTOR'S** sole responsibility to perform any investigations the **CONTRACTOR** deems necessary and to provide all equipment, labor, and materials needed to complete the project including, but not limited to, sheeting, shoring, bracing, pumps, and/or well pointing. The provision of all labor, equipment, and materials necessary to alleviate unfavorable subsurface conditions shall be subsidiary to the various pay items established in the proposal for furnishing and installing the Work. The **CONTRACTOR** shall be due no additional compensation relative to subsurface conditions.

16.3.8 Protection of Materials, Equipment and Work

The **CONTRACTOR** shall be responsible for the care, preservation, conservation, and protection of all materials, supplies, machinery, equipment, tools, apparatus, accessories, facilities, all means of construction, and any and all parts of the Work, whether the **CONTRACTOR** has been paid, partially paid, or not paid for such Work, until the entire Work is completed and accepted.

The **CONTRACTOR** shall arrange for storage of materials on or near the job site. Materials shall be stored at a place which shall not inconvenience the public or interfere with job progress and to best preserve the material to the satisfaction of the **CITY**. Materials shall be sorted and stacked neatly for ease of count and observation for compliance with material specifications. Improperly stored materials will not be eligible for inclusion in partial estimates.

16.3.9 Protection Against Accident to Employees and the Public

The **CONTRACTOR** shall at all times exercise reasonable precautions for the safety of employees and others on or near the Work and shall comply with all applicable provisions of Federal, State, and Municipal safety laws and building and construction codes. All machinery and equipment and other physical hazards shall be guarded in accordance with the Manual of Accident Prevention in Construction of the Associated General Contractors of America, except where incompatible with Federal, State, or Municipal laws or regulations. The **CONTRACTOR** shall provide such machinery guards, safe walkways, ladders, bridges, gangplanks, and other safety devices. The safety precautions actually taken and their adequacy shall be the sole responsibility of the **CONTRACTOR**, acting at the **CONTRACTOR'S** discretion as an independent contractor.

The right of the Project Representative to conduct construction review or observation of the **CONTRACTOR'S** performance or Work will not include review or observation of the

adequacy of the **CONTRACTOR'S** safety measures in, on, or near the construction site.

16.3.10 Shop Drawings and Other Submittals

The **CONTRACTOR** shall submit to the Project Designer with such promptness as to cause no delay in the Work or in that of any other contractor, five (5) checked copies, unless otherwise specified, of all shop and/or setting drawings and schedules required for the work of the various trades, and the Project Designer shall pass upon them with reasonable promptness, making desired corrections. The **CONTRACTOR** shall make any corrections required by the Project Designer, file with the Project Designer four (4) corrected copies and furnish such other copies as may be needed. The Project Designer's approval of such drawings or schedules shall not relieve the **CONTRACTOR** from responsibility for deviations from drawings or specifications, unless the **CONTRACTOR** has in writing called the Project Designer's attention to such deviations at the time of submission, nor shall it relieve the **CONTRACTOR** from responsibility for errors of any sort in shop drawings or schedules. It shall be the **CONTRACTOR'S** responsibility to fully and completely review all shop drawings to ascertain their effect on the **CONTRACTOR'S** ability to perform the required contract Work in accordance with the plans and specifications and within the contract time.

Such review by the Project Designer shall be for the sole purpose of determining the sufficiency of said drawings or schedules to result in finished improvements in conformity with the plans and specifications, and shall not relieve the **CONTRACTOR** of the **CONTRACTOR'S** duty as an independent contractor as previously set forth, it being expressly understood and agreed that the Project Designer does not assume any duty to pass upon the propriety or adequacy of such drawings or schedules, or any means or methods reflected thereby, in relation to the safety of either person or property during **CONTRACTOR'S** performance hereunder.

Prior to beginning the Work, the **CONTRACTOR** shall submit to the **CITY**, a list of all valves, hydrants, pumps, and other pieces of major equipment to be installed under this contract that includes the number used, the manufacturer and model, and the location installed of each piece of equipment. If requested by the **CITY**, the **CONTRACTOR** shall also submit manufacturer's product data for each piece of equipment.

16.3.11 Water for Construction

The **CONTRACTOR** must make arrangements for water required for construction and shall furnish tank trucks, pumps, pipe, hose, water storage tanks, or whatever else the **CONTRACTOR** needs to secure the water and store it for use on the Work. If the **CONTRACTOR** desires to use **CITY** water from a fire hydrant, the **CONTRACTOR** must rent a hydrant meter from Tyler Water Utilities. The **CONTRACTOR** shall furnish a proper fire hydrant wrench with a five (5)-sided socket to fit the hydrant operating nuts. Opening and closing of fire hydrants with a pipe or crescent wrench or any tool not made especially for the five (5)-sided hydrant nuts will not be permitted. The **CONTRACTOR** shall replace all fire hydrant caps after the **CONTRACTOR'S** tank truck is loaded with water. The **CONTRACTOR** shall not use any water from the municipal water system until the **CONTRACTOR** obtains a hydrant meter and prior authorization for such use from Tyler Water Utilities.

16.3.12 Contractor's Buildings

The erection of temporary structures for the use of field offices, will be permitted only at such places as approved by the Project Representative and shall at all times be maintained in a manner

satisfactory to the Project Representative.

16.3.13 Sanitation

Necessary sanitary conveniences for the use of laborers on the Work, properly secluded from public observation, shall be constructed and maintained by the **CONTRACTOR** in such manner and at such points as shall be approved by the Project Representative, and their use shall be strictly enforced.

16.3.14 Protection Against Claims

The **CONTRACTOR** will indemnify, hold harmless and defend the **CITY** and its Project Designer from and against all claims arising from demand for payment of all lawful sums due based upon the provision of labor or materials in the furtherance of the performance of this contract by sub-contractors, laborers, workmen, mechanics, materialmen and furnishers of machinery and parts thereof, equipment, power tools, and all supplies, including commissary. When so desired by the **CITY**, the **CONTRACTOR** shall furnish satisfactory evidence that all obligations of the nature herein above designated have been paid, discharged or waived.

16.3.15 Intellectual Property - Payment of Royalties and License Fees

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

If a particular invention, design, process, product or device is specified in the Contract Documents for use in the performance of the Work and if to the actual knowledge of **CITY** or Project Designer its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by **CITY** and Project Designer in the Contract Documents.

CONTRACTOR shall indemnify, hold harmless and defend **CITY** and its officers, directors, employees, Project Designer and agents from and against all claims, costs, losses and damages arising out of or resulting from any infringement by **CONTRACTOR** of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product or device not specified in the Contract Documents.

16.3.16 Compliance with Laws and Ordinances

The **CONTRACTOR** shall at all times observe and comply with all Federal, State and local laws, ordinances and regulations, which in any manner affect the contract or the Work. **CONTRACTOR SHALL INDEMNIFY, HOLD HARMLESS AND DEFEND CITY AND ITS PROJECT DESIGNER FROM AND AGAINST ALL CLAIMS ARISING FROM THE VIOLATION OF ANY SUCH LAWS, ORDINANCES, AND REGULATIONS BY THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES.** If the **CONTRACTOR** observes that the plans and specifications are at variance therewith, the **CONTRACTOR** shall promptly notify the Project Designer in writing, and any necessary changes shall be adjusted as provided in the contract for changes in the Work. If the **CONTRACTOR** performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Project Designer, the **CONTRACTOR** shall bear all costs arising therefrom.

pursuant to the Texas Constitution, Article 11, Section 5 and the TEX. LOC. GOV'T CODE ANN. Chapter 9. The **CITY** has full power of self-government under TEX. LOC. GOV'T CODE ANN. § 51.072(a). The **CITY** shall retain and exercise all powers, whether express or implied, that now are, or hereafter may be, granted to municipalities by the Texas Constitution or laws of the State of Texas. The laws from which the **CITY** derives its powers shall be considered a part of this Contract, as if embodied herein, to the extent that such laws regulate the manner or conditions under which the **CITY** may enter into a Contract.

16.3.17 OSHA Requirements

The **CONTRACTOR** will be required to adhere to, and all mechanical equipment and construction procedures shall conform to, all of the applicable requirements of the Federal Occupational Safety and Health Act of 1930 (OSHA) which is made a part of this contract by reference. Particular attention should be given to requirements relating to trench safety.

16.3.18 Trench Safety Systems

The **CONTRACTOR** shall retain the sole responsibility for the design, fabrication, erection, and removal of trench safety systems for excavation and construction of all trenches. Trench safety systems shall be designed and installed in accordance with the City of Tyler Standard Specification for Trench Safety Systems. Prior to issuance of the *Notice to Proceed* the **CONTRACTOR** shall submit two (2) copies of a Trench Safety Plan to the **CITY** which shall be written documentation of the **CONTRACTOR**'s proposed trench safety system.

16.4 RESPONSIBILITIES OF THE PROJECT DESIGNER

16.4.1 Project Designer-City Relationship

The duties, responsibilities and limitations of authority of the Project Designer as the **CITY**'s representative during construction are as set forth in the contract documents and shall not be extended or limited without written consent of the **CITY** and Project Designer. Generally, unless otherwise specifically provided in the *Special Conditions*, the Project Designer will perform the following functions:

- A. Design the project and prepare all projects plans and specifications.
- B. Assist in bidding, respond to pre-bid questions and requests for clarifications.
- C. Attend the pre-bid conference.
- D. Issue any necessary addenda.
- E. Attend pre-construction conferences, progress meetings and other job conferences as may be required.
- F. Review **CONTRACTOR**'s initial cost breakdown with schedule of values and/or bid schedule unit price list and recommend approval.
- G. Review construction progress schedule, schedule of shop drawings, and other schedules prepared by the **CONTRACTOR** and determine their acceptability.
- H. Receive and record the date of receipt, and monitor transmission of shop drawings, samples, and test data submitted by the **CONTRACTOR**, review and approve shop drawings, and transmit them back to **CONTRACTOR** as necessary. All such transmittal dates shall be recorded in the submittal log.
- I. Respond to Requests for Information (RFI's) and issue such written clarifications or interpretations of the contract documents which shall be consistent with or reasonably inferable from the overall intent of the contract documents. If **CONTRACTOR** believes that a written clarification or interpretation justifies an increase in the contract price or

contract time, **CONTRACTOR** may make a claim therefor as provided in Section 16.14, "Extra Work and Claims".

- J. Verify and approve quantities of Work put in place during the preceding month, verify **CONTRACTOR'S** reimbursable field costs, if any, for authorized overtime, and review the **CONTRACTOR'S** application for payment and certify that the Work has progressed to the point indicated by the **CONTRACTOR**, that to the best of the knowledge, information and belief of Project Designer, based on observations and review, the Work is in accordance with the contract documents, and that the **CONTRACTOR** is entitled to the payment of the amount certified.
- K. Correct design defects.
- L. Prepare all change orders and supplemental agreements in the form and manner approved by the **CITY**, for authorized alterations to the Work as provided for under the contract documents. Recommend to and obtain from the **CITY** approval or denial of changes to the contract times or price.
- M. In the event of a claim or dispute by **CONTRACTOR**, interpret the requirements of the contract documents and judge the acceptability of the Work thereunder.
- N. Assist Project Representative in preparation of punch list items.
- O. Assist Project Representative with final inspection.
- P. Recommend to **CITY** final completion.

16.4.2 Lines and Grades

Unless otherwise specified in the **Special Conditions**, all lines and grades shall be furnished by the Project Designer or the Project Designer's representative. Whenever necessary, construction Work shall be suspended to permit performance of this work, but such suspension will be as brief as practicable and the **CONTRACTOR** shall be allowed no extra compensation therefore. The **CONTRACTOR** shall give the Project Designer reasonable notice of the time and place where lines and grades will be needed. All stakes, marks, etc. shall be carefully preserved by the **CONTRACTOR**, and in case of careless destruction or removal by the **CONTRACTOR** or the **CONTRACTOR'S** employees, such stakes, marks, etc. shall be replaced at the **CONTRACTOR'S** expense.

16.4.3 Initial Determinations

The Project Designer initially shall determine all claims, disputes and other matters in question between the **CONTRACTOR** and the **CITY** relating to the execution or progress of the Work or the interpretation of the contract documents, and the Project Designer's decision shall be rendered in writing within a reasonable time.

16.4.4 Payments for Work

The Project Designer shall review **CONTRACTOR'S** applications for payment and supporting data, determine the amount owed to the **CONTRACTOR** and approve, in writing, payment to **CONTRACTOR** in such amounts; such approval of payment to **CONTRACTOR** constitutes a representation to the **CITY** of Project Designer's professional judgment that the Work has progressed to the point indicated to the best of the Project Designer's knowledge, information and belief, but such approval of an application for payment to **CONTRACTOR** shall not be deemed as a representation by Project Designer that Project Designer has made any examination to determine how or for what purpose **CONTRACTOR** has used the moneys paid on account of the contract price.

16.4.5 Objections

In the event the Project Designer renders any decision which, in the opinion of either party hereto, is not in accordance with the meaning and intent of this contract, either party may file with the Project Designer within thirty days their written objection to the decision.

16.5 RESPONSIBILITIES OF THE PROJECT REPRESENTATIVES

16.5.1 Project Representative-City Relationship

The term Project Representative refers to the person or firm appointed by the **CITY** to be on the project site daily to oversee the construction on the **CITY'S** behalf. The Project Representative performs those functions of the person sometimes referred to as the “owner’s representative,” “resident engineer,” “resident project representative,” “onsite construction manager,” or the “construction administrator.” Sometimes the Project Representative will be a City employee, sometimes the Project Representative will be the same person or firm that designed the project, i.e., the Project Designer, and sometimes a different architect or engineer, but in any case, the Project Representative will represent the **CITY** and has only the authority granted by **CITY**, whether through an employment relationship or through a contract for professional services. The duties and responsibilities and the limitations of authority of the Project Representative during construction are set forth in the contract documents. Generally, unless otherwise specifically stated in the **Special Conditions**, the Project Representative may perform the following functions:

- A. Attend pre-construction conferences, progress meetings and other job conferences as may be required.
- B. Provide “on-site” observation regarding conformance of the Work with the contract documents. Observe and document Work and any delays and identify and reject defective or deficient Work. Observe and approve or reject construction materials and equipment to determine their general compliance with the contract documents.
- C. Assist **CONTRACTOR** in acquiring materials testing laboratory and inspection services. D. Schedule, assist and accompany other City staff, the Project Designer and inspectors representing other agencies having jurisdiction over the Project that are visiting the Work and record and report the outcome of these inspections.
- E. Prepare and furnish **CITY** with monthly reports of the progress of the Work and of the **CONTRACTOR'S** compliance with the approved progress schedule.
- F. Review the Project Designer’s interpretation of the contract documents for subsequent presentation to **CONTRACTOR** and resolve unanticipated field problems by “on-site” inspections.
- G. Respond to general RFI’s for general clarification and interpretation and consult, when appropriate, with Project Designer or refer RFI to Project Designer for response.
- H. Issue field orders.
- I. Advise the Project Designer when it is believed Work should be corrected, rejected, uncovered for observations or requires special tests or inspections.
- J. Furnish to **CITY** information, as required, relating to the **CONTRACTOR'S** claims including documents, calculations and other information relevant to such claims together with recommendations with regard to payment of such claims.
- K. Maintain orderly files for correspondence, reports or job conferences, reproductions of original contract documents including addenda, authorized alterations to the contract documents, change orders, field orders, additional drawings issued subsequent to the execution of the **AGREEMENT**, clarification letters, and other alterations to the contract

documents, interpretations of the contract documents, progress reports, and other project related documents.

- L. Prepare, with assistance from the Project Designer, punch list items.
- M. Recommend to **CITY** substantial completion.
- N. Perform final inspection with assistance from the Project Designer.
- O. Review **CONTRACTOR'S** completion documents.
- P. Recommend to **CITY**, with concurrence of the Project Designer, final completion.

16.5.2 Professional Inspection by Project Representative

The Project Representative shall make periodic visits to the site to become familiar generally with the progress of the executed Work and to determine if such Work generally meets the essential performance and design features and the technical and functional engineering requirements of the contract documents; provided and except, however, that the Project Representative shall not be responsible for making any detailed, exhaustive, comprehensive or continuous on-site inspection of the quality or quantity of the Work or be in any way responsible, directly or indirectly, for the construction means, methods, techniques, sequences, quality, procedures, programs, safety precautions or lack of same incident thereto or in connection therewith. Notwithstanding any other provision of this AGREEMENT or any other contract document, the Project Representative shall not be in any way responsible or liable for any acts, errors, omissions or negligence of the **CONTRACTOR**, any subcontractor or any of the **CONTRACTOR'S** or subcontractor's agents, servants or employees or any other person, firm or corporation performing or attempting to perform any of the Work.

16.6 CONTRACT DOCUMENTS

16.6.1 Ownership of Drawings

The **CONTRACTOR**, and any subcontractor or supplier or other person or organization performing or furnishing any of the Work under a direct or indirect contract with the **CITY**, shall not have or acquire any title to or ownership rights in any of the drawings, specifications, or other documents, or copies of any thereof, prepared by or bearing the seal of the Project Designer or Project Designer's consultant , and the **CONTRACTOR** shall not reuse any of such drawings or specifications, other documents or copies on extensions of the Work or any other project without written consent of the **CITY** and Project Designer and specific verification or adaption by the Project Designer.

16.6.2 Adequacy of Design

It is understood that the **CITY** believes it has employed competent engineers, architects and designers. It is, therefore, agreed that the **CITY** shall be responsible for the adequacy of the design, sufficiency of the contract documents, the safety of the structure and the practicability of the operations of the completed project; provided the **CONTRACTOR** has complied with the requirements of the said contract documents, all approved modifications thereof, and additions and alterations thereto approved in writing by the **CITY**. The burden of proof of such compliance shall be upon the **CONTRACTOR** to show that the **CONTRACTOR** has complied with the said requirements of the contract documents, all approved modifications thereof and all approved additions and alterations thereto.

16.6.3 Specifications

Titles to divisions and paragraphs in the specifications are introduced merely for convenience

and are not to be taken as a correct or complete segregation of the several units of material and labor. No responsibility, either direct or implied, is assumed by the Project Designer for omissions or duplications by the **CONTRACTOR** or Subcontractors, due to real or alleged error in arrangement of matter in the specifications.

16.6.4 Discrepancies and Omissions

It is the intent of this contract that all Work must be done and all material must be furnished in accordance with the generally accepted practice, and in the event of any discrepancies between the separate contract documents, the priority of interpretation defined in the ***Standard Form of Agreement*** shall govern. In the event that there is still any doubt as to the meaning and intent of any portion of the contract, specifications or drawings, the Project Designer shall define which is intended to apply to the Work.

16.7 BONDS

16.7.1 General

The **CONTRACTOR** is required, pursuant to TEX. GOV'T CODE ANN. § 2253.021, and/or the ***Standard Form of Agreement*** to execute all bonds before commencing the work. The contract shall not be in effect until **CONTRACTOR** executes the AGREEMENT and files with the **CITY** a good and sufficient ***Statutory Performance and Maintenance Bond and Payment Bond*** (when applicable) or ***Payment Bond*** in the amount equal to one hundred percent (100%) of the total amount of the contract. Such bonds are furnished by the **CONTRACTOR** and approved by the **CITY**.

Within fifteen (15) calendar days after written notification of the award of the contract, the **CONTRACTOR** shall submit ***Statutory Performance and Maintenance Bond and Payment Bonds*** (when applicable) or ***Payment Bond*** to **CITY** on standard forms as required by the ***Standard Form of Agreement***.

Sureties may not be accepted who are now in default or delinquent on any bonds or who are interested in any litigation against the **CITY**. All bonds must be made on standard forms and must be executed by an approved surety company authorized to do business in the State of Texas and registered by the State Board of Insurance to conduct business in the State of Texas and acceptable according to the most recent list of the companies holding Certificates of Authority from the Secretary of the Treasury of the United States, shown on the Treasury List. Each bond must be executed by the **CONTRACTOR** and the sureties.

Should any surety on the contract be determined unsatisfactory at any time by the City Council, notice will be given to the **CONTRACTOR** to that effect, and the **CONTRACTOR** must provide a new surety satisfactory to the **CITY** within fifteen (15) calendar days. Payments may be withheld until the new surety or sureties, as required, have qualified and been accepted by the **CITY**.

16.7.2 Performance Bond

The performance bond guarantees the **CITY** that the **CONTRACTOR** will fully and faithfully execute the Work and performance of the AGREEMENT according to its terms including price and time and is solely for the protection of the **CITY** in the amount of the contract and conditioned on the faithful performance of the work in accordance with the plans, specifications,

and contract documents. Pursuant to TEX. GOV'T CODE ANN. § 2253.021 and the ***Standard Form of Agreement*** a performance bond is required when the contract amount is in excess of one hundred thousand dollars (\$100,000).

16.7.3 Maintenance Bond

The maintenance bond guarantees the **CITY** that the **CONTRACTOR** will guarantee the Work against faulty workmanship and/or materials for a specified period of time following completion of the AGREEMENT. Pursuant to **CITY** policy and the ***Standard Form of Agreement*** a maintenance bond shall accompany the performance bond for a maintenance period of one (1) year after the date of final acceptance of the Work.

16.7.4 Payment Bond

The payment bond guarantees the **CITY** that the **CONTRACTOR** shall pay all bills for materials and labor for work provided for in said AGREEMENT and is solely for the protection and use of payment bond beneficiaries who have a direct contractual relationship with the prime contractor or a subcontractor to supply public work, labor or material and in the amount of the contract. Pursuant to TEX. GOV'T CODE ANN. § 2253.021 for contracts in excess of \$25,000 a payment bond is required; however, pursuant to **CITY** Policy and the ***Standard Form of Agreement*** a payment bond shall be required for ALL projects regardless of value.

16.8 INSURANCE REQUIRED

16.8.1 Contractor Shall Maintain Insurance

CONTRACTOR agrees, at its sole expense, to maintain on a primary basis during the life of this Contract and the performance of Work hereunder, insurance coverage, limits, and endorsements unless otherwise noted herein. Insurance required by this contract for the **CITY** as additional insured shall be primary insurance and not contributing with any other insurance available to **CITY**.

CONTRACTOR agrees to provide evidence of the following coverages at execution of contract:

- Commercial General Liability,
- Business Auto Liability,
- Contractor's Professional Errors & Omissions Liability if required by City Operation Department,
- Inland Marine Builder's Risk Insurance if required by City Operational Department,
- Contractor's Pollution Liability Insurance if required by a City Operational Department,
- Commercial Umbrella / Excess Liability, and
- Worker's Compensation and Employer's Liability

In the event the **CONTRACTOR** performs any site work, other than testing, then all the insurance required herein will need to be evidenced prior to commencement of said site work.

16.8.2 Insurance Requirements shall not limit Contractor's Liabilities and Obligations

The **CONTRACTOR** agrees the insurance requirements herein as well as **CITY'S** review or acknowledgement, is not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by the **CONTRACTOR** under this AGREEMENT.

16.8.3 Commercial General Liability

CONTRACTOR agrees to maintain Commercial General Liability at a limit of liability not less than one million (**\$1,000,000**) **Each Occurrence**, two million (**\$2,000,000**) **General Aggregate per project**. **CONTRACTOR** agrees its coverage will not contain any restrictive endorsement(s) excluding or limiting Products - Completed Operations, Independent Contractors, Broad Form Property Damage, X-C-U Coverage (X = Explosion Hazard; C = Collapse Hazard; U = Underground Damage), Contractual Liability or Cross Liability. The **CONTRACTOR** agrees any Self-Insured-Retention or deductible shall not exceed twenty-five thousand (\$25,000).

16.8.4 Business Automobile Liability

CONTRACTOR agrees to maintain Business Automobile Liability at a limit of liability not less than one million (**\$1,000,000**) **Each Occurrence**. Coverage shall include bodily injury and property damage liability arising out of the operation, maintenance and use of Any Auto, or All Owned Autos, and Hired Autos, and Non-Owned automobiles. In the event **CONTRACTOR** does not own automobiles, **CONTRACTOR** agrees to maintain coverage for Hired & Non- Owned Auto Liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

16.8.5 Contractor's Professional Errors & Omissions Liability

If a City Operational Department requires Professional Errors & Omissions Liability coverage, **CONTRACTOR** agrees to maintain **CONTRACTOR'S** Professional Error's & Omissions Liability at a limit of liability not less than one million (**\$1,000,000**) **Each Occurrence**, two million (**\$2,000,000**) **General Aggregate**. The **CONTRACTOR** agrees the policy shall include a minimum three (3) year Discovery (tail) reporting period, and a Retroactive Date that equals or precedes the effective date of the AGREEMENT, or the performance of services hereunder. The **CONTRACTOR** agrees the Self-Insured-Retention shall not exceed twenty-five thousand (\$25,000). This coverage may be provided on a Per-Project Basis.

16.8.6 Inland Marine Builder's Risk Insurance

If a City Operational Department requires Inland Marine Builder's Risk coverage, the **CONTRACTOR**, prior to notice to proceed or commencement of Work, whichever occurs first, agrees to maintain an Inland Marine Builder's Risk insurance coverage form with an amended policy period of no less than twenty-two (22) months or estimated project length whichever is longer, if available, providing coverage to protect the interests of the **CITY, CONTRACTOR**, sub-contractors, including property acquired under a sales tax incentive program, property in transit, and property on or off-premises, which shall become part of the Work.

Coverage shall be written on an All-Risk, Replacement Cost, and Completed Value Form basis in an amount at least equal to one hundred percent (100%) of the projected completed value of the Work, as well as subsequent modifications of that sum due to Change Orders. This policy shall also include Delay Cost coverage for soft costs, which shall at a minimum include additional expenses for interest, legal, consulting, insurance, architectural and engineering, **CONTRACTOR'S** overhead and general conditions, and equipment rental. The period of indemnity shall not be less than twelve (12) months and the limit of Delay Cost coverage not be less than ten percent (10%) of the projected completed value of the Work and shall be a scheduled limit on the policy in addition to a scheduled limit for the hard cost coverage. The waiting period for Delay Cost coverage may not exceed thirty (30) days. Collectively, the

scheduled soft cost limit and hard cost limit may equal one hundred percent (100%) of the projected value of the Work, unless the builder's risk carrier requires the Delay Cost coverage to be in addition to the one hundred percent (100%) projected value of the Work. **CONTRACTOR** agrees to be responsible for reporting increases in the projected completed value of the Work due to Change Orders to its insurance carrier.

The **CONTRACTOR** further agrees that any flat deductible(s) shall not exceed one hundred thousand (\$100,000), any wind percentage deductible (when applicable) shall not exceed ten-percent (10%); and any flood sublimit shall not be less than twenty-five percent (25%) of the projected completed value of the Work for this policy.

The **CONTRACTOR** agrees to endorse the Inland Marine Builder's Risk insurance with a manuscript endorsement eliminating the automatic termination of coverage in the event the building is occupied in whole or in part, or put to its intended use, or partially accepted by **CITY**. The manuscript endorsement shall amend the automatic termination clause to only terminate coverage if the policy expires, is cancelled, the **CITY'S** interest in the building ceases, or the building is accepted or insured by the **CITY**.

The **CONTRACTOR** agrees to endorse the **CITY** as "Additional Insured" on the Inland Marine Builder's Risk Insurance coverage form.

16.8.7 Contractor's Pollution Liability

If a City Operational Department requires Contractor's Pollution Liability coverage, the **CONTRACTOR** agrees to maintain Contractor's Pollution Liability at a limit of liability not less than one million **(\$1,000,000) Each Occurrence**, two million **(\$2,000,000) General Aggregate**.

16.8.8 Commercial Umbrella/Excess Liability

CONTRACTOR agrees to maintain either a Commercial Umbrella or Excess Liability at a limit of liability not less than five million **(\$5,000,000) Each Occurrence**, five million **(\$5,000,000) General Aggregate**. The **CONTRACTOR** agrees to endorse the **CITY** as an "Additional Insured" on the Commercial Umbrella/Excess Liability, unless the Commercial Umbrella/Excess Liability provides coverage on a pure/true follow-form basis, or the **CITY** is automatically defined as an Additional Protected Person. The **CONTRACTOR** agrees any Self-Insured- Retention or deductible shall not exceed twenty-five thousand (\$25,000).

16.8.9 Additional Insured Endorsements

The **CONTRACTOR** agrees to endorse the **CITY** as an "Additional Insured" on the Commercial General Liability. Contractor shall choose one of the three Endorsement Option stated below. All Endorsements shall be in the form required. All pages of the Endorsement(s) shall be attached.

The form of the endorsement(s) shall be:

Option 1:

CG 20 10 10 01

Additional Insured - Owners, Lessees, or Contractors – Scheduled Person or Organization

AND, the additional endorsement of

CG 20 37 07 04

Additional Insured – Owners, Lessees, or Contractors – Completed Operations

shall be required to provide back coverage for the **CONTRACTOR'S** “your work” as defined in the policy and liability arising out of the products-completed operations hazard.

Option 2:

CG 20 10 07 04

Additional Insured - Owners, Lessees, or Contractors – Scheduled Person or Organization

AND, the additional endorsement of

CG 20 37 07 04

Additional Insured – Owners, Lessees, or Contractors – Completed Operations

shall be required to provide back coverage for the **CONTRACTOR'S** “your work” as defined in the policy and liability arising out of the products-completed operations hazard.

Option 3:

GA 4113 11 99

Additional Insured – Owners, Lessees, or Contractors – Scheduled Person or Organization – Your Work

AND, the additional endorsement of

GA 233 02 07

Contractors' Commercial General Liability Broadened – with coverage for Completed Operations in conformance to specific written contract

CONTRACTOR shall attach actual copies of the endorsements.

Additionally, **CONTRACTOR** agrees to endorse the **CITY** as an “Additional Insured” under the Commercial Umbrella / Excess Liability and the Inland Marine Builders Risk Insurance , if required, as also provided herein.

The name of the organization endorsed as Additional Insured for all endorsements shall read “City of Tyler.”

16.8.10 Deductibles, Coinsurance Penalties & Self-Insured Retention

CONTRACTOR agrees to be fully and solely responsible for any costs or expenses as a result of a coverage deductible, coinsurance penalty, or self-insured retention; including any loss not covered because of the operation of such deductible, coinsurance penalty, self-insured retention, or coverage exclusion or limitation. For deductible amounts that exceed the amounts stated herein that are acceptable to **CITY**, the **CONTRACTOR** agrees, when requested by **CITY**, to maintain a Commercial Surety Bond in an amount equal to said deductible amount.

16.8.11 Waiver of Subrogation

CONTRACTOR agrees by entering into this written AGREEMENT to a Waiver of Subrogation in favor of the **CITY**, **CONTRACTOR**, sub-contractor, architects, or engineers for each required policy providing coverage during the life of this AGREEMENT. **CONTRACTOR**

agrees to notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or an equivalent endorsement and provide such endorsement to **CITY**. This Waiver of Subrogation requirement shall not apply to any policy, which includes a condition that specifically prohibits such an endorsement, or voids coverage should the **CONTRACTOR** enter into such an agreement on a pre-loss basis.

16.8.12 Right to Revise or Reject

CONTRACTOR agrees the **CITY** reserves the right, but not the obligation, to review or revise any insurance requirement, not limited to limits, coverage and endorsements based on insurance market conditions affecting the availability or affordability of coverage; or changes in the scope of work / specifications affecting the applicability of coverage.

Insurance required herein shall be issued by a company or companies of sound and adequate financial responsibility and authorized to do business in the State of Texas. All policies shall be subject to examination and approval by the City Attorney's Office in the **CITY'S** Legal Department for their adequacy as to form, content, form of protection, and providing company. Additionally, the **CITY** reserves the right, but not the obligation, to review and reject any insurance policies failing to meet the criteria stated herein, or any insurer(s) providing coverage due of its poor financial condition or failure to operate legally in the State of Texas. In such events, **CITY** shall provide **CONTRACTOR** written notice of such revisions or rejections.

16.8.13 No Representation of Coverage Adequacy

The coverage, limits or endorsements required herein protect the primary interests of the **CITY**, and the **CONTRACTOR** agrees in no way should these coverage, limits or endorsements required be relied upon when assessing the extent or determining appropriate types and limits of coverage to protect the **CONTRACTOR** against any loss exposures, whether as a result of the Project or otherwise.

16.8.14 Certificate of Insurance

CONTRACTOR agrees to provide **CITY** with Certificate(s) of Insurance that clearly evidence the **CONTRACTOR'S** insurance contains the minimum coverages, limits, and endorsements set forth herein. A minimum thirty (30) day endeavor to notify due to cancellation or non-renewal of coverage shall be identified on each Certificate(s) of Insurance. In the event the **CITY** is notified that a required insurance coverage will cancel or expire during the period of this AGREEMENT, the **CONTRACTOR** agrees to furnish **CITY** prior to the expiration of such insurance, a new Certificate of Insurance evidencing replacement coverage. When notified by **CITY**, the **CONTRACTOR** agrees to not continue Work pursuant to this AGREEMENT, unless all required insurance remains in effect.

The **CITY** shall have the right, but not the obligation, of prohibiting **CONTRACTOR** from entering the Work site until a new Certificate of Insurance is provided to the **CITY** evidencing the replacement coverage. The **CONTRACTOR** agrees the **CITY** reserves the right to withhold payment to **CONTRACTOR** until evidence of reinstated or replacement coverage is provided to the **CITY**. If the **CONTRACTOR** fails to maintain the insurance as set forth herein, the **CONTRACTOR** agrees the **CITY** shall have the right, but not the obligation, to purchase replacement insurance, which the **CONTRACTOR** agrees to reimburse any premiums or expenses incurred by the **CITY**.

16.8.15 Workers' Compensation & Employer's Liability

- A. The **CONTRACTOR** agrees to maintain its own Workers' Compensation Insurance pursuant to statutory limits. *See TEX. LAB. CODE ANN. Title 5, Subtitle A, Chapter 401; TEX. ADMIN CODE, Title 28, Part 2. (NOTE: Elective exemptions or coverage through an employee leasing arrangement will NOT satisfy this requirement).*
- B. The **CONTRACTOR** agrees to maintain its own Employer's Liability Insurance at a limit of liability not less than one million **\$1,000,000 Bodily Injury by Accident**, one million **\$1,000,000 Bodily Injury by Disease Each Occurrence**, one million **\$1,000,000 Bodily Injury by Disease Aggregate Limit**.
- C. Definitions:
 - (1) **Certificate of coverage (certificate)** - A copy of a certificate of insurance, a certificate of authority to self-insure issued by the commission, or a workers' compensation coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC- 84), showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project, for the duration of the project.
 - (2) **Duration of the project** - includes the time from the beginning of work on the project until the contractor's/person's work on the project has been completed and accepted by the governmental entity.
 - (3) **Persons providing services on the project ('subcontractor' in § TEX. LAB. CODE ANN. § 406.096)** - includes all persons or entities performing all or part of the services the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes without limitation independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity which furnishes persons to provide services on the project. "Services" without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. "Services" does not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.
- D. The contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements which meets the statutory requirements of TEX. LAB. CODE ANN. § 401.011(44).
- E. The contractor must provide a certificate of coverage to the governmental entity prior to being awarded the contract.
- F. If the coverage period shown on the contractor's current certificate of coverage ends during the duration of the project, the contractor must, prior to the end of the coverage period, file a new certificate of coverage with the governmental entity showing that coverage has been extended.
- G. The contractor shall obtain from each person providing services on a project, and provide to the governmental entity:
 - (1) a certificate of coverage, prior to that person beginning work on the project, so the

governmental entity will have on file certificates of coverage showing coverage for all persons providing services on the project; and

(2) no later than seven days after receipt by the contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project.

H. The contractor shall retain all required certificates of coverage for the duration of the project and for one year thereafter.

I. The contractor shall notify the **CITY** in writing by certified mail or personal delivery, within ten (10) days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project.

J. The contractor shall post a notice on each project site informing all persons providing services on the project that they are required to be covered and stating how a person may verify current coverage and report failure to provide coverage. This notice does not satisfy other posting requirements imposed by the Act or other commission rules. This notice must be printed with a title in at least 30-point bold type and text in at least 19-point normal type and shall be in both English and Spanish and any other language common to the worker population. The text for the notices shall be in the text, form and manner prescribed by the Texas Workers' Compensation Commission, as shown in Exhibit 1, without any additional words or changes.

K. The contractor shall contractually require each person with whom it contracts to provide services on a project, to:

(1) provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of TEX. LAB. CODE ANN. § 401.011(44) for all of its employees providing services on the project, for the duration of the project;

(2) provide to the contractor, prior to that person beginning work on the project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the project, for the duration of the project;

(3) include in all contracts to provide services on the project the language in subsection J of this section;

(4) provide the contractor, prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(5) obtain from each other person with whom it contracts, and provide to the contractor:

(a) a certificate of coverage, prior to the other person beginning work on the project; and

(b) prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;

(6) retain all required certificates of coverage on file for the duration of the project and for one year thereafter;

(7) notify the **CITY** in writing by certified mail or personal delivery, within ten (10) days after the person knew or should have known, of any change that materially

(8) affects the provision of coverage of any person providing services on the project; and contractually require each person with whom it contracts, to perform as required by paragraphs (1) - (8) of this subsection, with the certificates of coverage to be provided to the person for whom they are providing services.

L. By signing this contract or providing or causing to be provided a certificate of coverage, the contractor and the person signing this contract is representing to the **CITY** that all employees of the contractor who will provide services on the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

M. The contractor's failure to comply with any of these provisions is a breach of contract by the contractor which entitles the **CITY** to declare the contract void if the contractor does not remedy the breach within ten days after receipt of notice of breach from the **CITY**.

EXHIBIT 1
REQUIRED WORKERS' COMPENSATION COVERAGE

"The law requires that each person working on this site or providing services related to this construction project must be covered by workers' compensation insurance. This includes persons providing, hauling, or delivering equipment or materials, or providing labor or transportation or other service related to the project, regardless of the identity of their employer or status as an employee."

"Call the Texas Workers' Compensation Commission at 512-440-3789 to receive information on the legal requirement for coverage, to verify whether your employer has provided the required coverage, or to report an employer's failure to provide coverage."

N. A person providing services on a project, other than a contractor, shall:

- (1) provide coverage for its employees providing services on a project, for the duration of the project based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements which meets the statutory requirements of TEX. LAB. CODE ANN. § 401.011(44);
- (2) provide a certificate of coverage as required by its contract to provide services on the project, prior to beginning work on the project;
- (3) have the following language in its contract to provide services on the project: 'By signing this contract or providing or causing to be provided a certificate of coverage, the person signing this contract is representing to the **CITY** that all employees of the person signing this contract who will provide services on the project will be covered by workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or

misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

- (4) provide the person for whom it is providing services on the project, prior to the end of the coverage period shown on its current certificate of coverage, a new certificate showing extension of coverage, if the coverage period shown on the certificate of coverage ends during the duration of the project;
- (5) obtain from each person providing services on a project under contract to it, and provide as required by its contract:
 - (a) a certificate of coverage, prior to the other person beginning work on the project; and
 - (b) prior to the end of the coverage period, a new certificate of coverage showing extension of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;
- (6) retain all required certificates of coverage on file for the duration of the project and for one year thereafter;
- (7) notify the **CITY** in writing by certified mail or personal delivery, of any change that materially affects the provision of coverage of any person providing services on the project and send the notice within ten days after the person knew or should have known of the change; and
- (8) contractually require each other person with whom it contracts to:
 - (a) provide coverage based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements for all of its employees providing services on the project, for the duration of the project;
 - (b) provide a certificate of coverage to it prior to that other person beginning work on the project;
 - (c) include in all contracts to provide services on the project the language in paragraph (3) of this subsection;
 - (d) provide, prior to the end of the coverage period, a new certificate of coverage showing extension of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the project;
 - (e) obtain from each other person under contract to it to provide services on the project, and provide as required by its contract:
 - (i) a certificate of coverage, prior to the other person beginning work on the project; and
 - (ii) prior to the end of the coverage period, a new certificate of coverage showing extension of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the contract;
 - (f) retain all required certificates of coverage on file for the duration of the project and for one year thereafter;
 - (g) notify the **CITY** in writing by certified mail or personal delivery, within ten days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project; and
 - (h) contractually require each person with whom it contracts, to perform as required by this subparagraph and subparagraphs (a)-(g) of this paragraph,

with the certificate of coverage to be provided to the person for whom they are providing services.

O. The failure of a person providing services on a project to comply with any of these provisions is a breach of contract by the person providing services on a project which entitles the **CITY** to declare the contract void if the person providing services on a project does not remedy the breach within ten (10) days after receipt of notice of breach from the **CITY**.

16.9 QUALITY OF MATERIALS AND WORKMANSHIP

16.9.1 Materials Approved for Work

No materials which have been used by the **CONTRACTOR** for any temporary purpose whatsoever are to be incorporated in the permanent structure without written consent of the Project Designer. All materials to be used shall be new.

Unless otherwise stated, where materials or equipment are specified by a trade or brand name, it is not the intention of the **CITY** to discriminate against an equal product of another manufacturer, but rather to set a definite standard of quality or performance, and to establish an equal basis for the evaluation of bids. Where the words "or approved equal", "or accepted equal" or other such expressions are used, they shall be understood to mean that the thing referred to shall be the equivalent of or equal to some other thing, in the opinion or judgment of the Project Designer. Unless otherwise specified, all materials shall be the best of their respective kinds and shall be in all cases fully equal to approved samples. Notwithstanding that the words "or approved equal", "or accepted equal" or other such expressions may be used in the specifications in connection with a material, manufactured article or process, the material, article or process specifically designated shall be used, unless a substitute shall be approved in writing by the Project Designer, and the Project Designer shall have the right to require the use of such specifically designated material, article, or process.

16.9.2 Testing of Materials

Testing of all materials to be incorporated into the project will be made as directed by the Project Designer or **CITY** at the expense of the **CITY**. All retesting will be at the expense of the **CONTRACTOR**. The testing laboratory will be designated by the **CITY** and all materials must meet the specification requirements. For materials furnished by a manufacturer such as reinforcing steel, expansion joint materials, concrete, pipe, miscellaneous steel, cast iron materials, etc., the **CONTRACTOR** may be required to furnish a manufacturer's certificate that the material meets the requirements specified for this project.

All testing performed by the **CITY** shall be for quality assurance purposes only and shall not constitute any part of the **CONTRACTOR'S** quality control program.

16.9.3 Defects and Their Remedies

The Project Representative shall not have the power to waive the obligations of this contract for the furnishing by the **CONTRACTOR** of good material, and of the **CONTRACTOR** performing good Work as herein described, and in full accordance with the plans and specifications. If the Work or any part thereof, or any material brought on the site of the Work for use in the Work or selected for the same, shall be deemed by the Project Representative as

unsuitable or not in conformity with the specifications, the **CONTRACTOR** shall, after receipt of written notice thereof from the Project Representative, forthwith remove such material and rebuild or otherwise remedy such Work so that it shall be in full accordance with this contract.

No failure or omission of the Project Representative to discover, object to or condemn any defective Work or material shall release the **CONTRACTOR** from the obligations to fully and properly perform the contract, including without limitations, the obligation to at once tear out, remove and properly replace the same at any time prior to final acceptance upon the discovery of said defective Work or material; provided, however, that the Project Representative shall, upon request of the **CONTRACTOR**, inspect and accept or reject any material furnished.

Any questioned Work may be ordered taken up or removed for re-examination by the Project Representative prior to final acceptance, and if found not in accordance with the specifications for said Work, all expense of removing, re-examination and replacement shall be borne by the **CONTRACTOR**, otherwise the expense thus incurred shall be allowed as provided for in Section 16.14, "Extra Work and Claims", and shall be paid for by the **CITY**; provided that, where inspection or approval is specifically required by the specifications prior to performance of certain Work, should the **CONTRACTOR** proceed with such Work without requesting prior inspection or approval, the **CONTRACTOR** shall bear all expense of taking up, removing, and replacing this Work if so directed by the Project Representative.

16.9.4 **Guarantee**

The **CONTRACTOR** shall guarantee the materials furnished and the installation performed for a period of one (1) year of operation after the date of final acceptance by the **CITY**.

In the event a defect is found during the guarantee period, the **CONTRACTOR** will be notified and shall immediately repair the defect, furnishing and installing all materials necessary. The repair shall be executed in a manner satisfactory to the **CITY**. Should the **CONTRACTOR** proceed with such repairs without requesting prior inspection or approval, the **CONTRACTOR** shall bear all expense of taking up, removing, and replacing this Work if so directed by the Project Representative.

The **CONTRACTOR** is to perform any repair immediately when notified by the **CITY** without question or delay because of any doubt as to the probable cause of the defect, regardless of whether the repair is covered by the guarantee. In the event that the defect corrected by the **CONTRACTOR** should be found to be caused by some event or disturbance which occurred after the date of the final acceptance, the responsible party will pay the **CONTRACTOR** for the time and materials used in the repair in accordance with the terms of Section 16.14 "Extra Work and Claims". If the defect necessitating the repair was not found to be caused by a disturbance occurring after the date of the final acceptance, the **CONTRACTOR** shall furnish all labor, equipment, tools, and materials necessary for the repair without any additional payment.

In the event the defect creates an emergency, or if the **CONTRACTOR** fails to begin repair work within a reasonable length of time according to the nature of the defect, the **CITY** reserves the right to perform the repair work by other means. In this event, if the defect is found to be covered by the guarantee, the **CONTRACTOR** shall then pay the **CITY** for the equipment, time, labor, and materials used in accordance with the method of calculating payment for Extra Work as set out in Section 16.14, "Extra Work and Claims".

The period of the guarantee shall be one (1) year of satisfactory service from the date of final

acceptance of the Work by the **CITY**. In the event it is necessary to take the improvements out of service because of defective materials or workmanship, the period of guarantee shall be extended until the improvements have been in continuous service for a period of one (1) year.

16.10 MAINTENANCE OF SITE

16.10.1 Protection of Adjoining Property

The **CONTRACTOR** shall take proper means to protect the adjacent or adjoining property or properties in any way encountered, which might be injured or seriously affected by any process of construction to be undertaken under this AGREEMENT, from any damage or injury by reason of said process of construction; and the **CONTRACTOR** shall be liable for any and all claims for such damage on account of the **CONTRACTOR'S** failure to fully protect all adjoining property. The **CONTRACTOR** agrees to indemnify, hold harmless and defend the **CITY** and Project Designer from and against all claims for property damages to any adjacent or adjoining real property arising or growing out of the performance of the contract, to the extent that such damage was caused by the negligent or intentional acts or omissions of **CONTRACTOR**.

The **CONTRACTOR** shall repair all fences, concrete walls, concrete sidewalks, concrete curbs, gravel, asphalt and concrete driveways, signs, culverts, and all other miscellaneous improvements, unless otherwise specified by bid item in the *Proposal* or *Special Conditions*, at no additional expense to the **CITY**, damaged by the **CONTRACTOR** due to the Work on the project, to a condition equal to or better than their condition before construction.

16.10.2 Driveways and Property Access

The **CONTRACTOR** shall keep all driveways and parking areas to properties adjacent to the site of Work open at all times except for the minimum practical time required to install the Work. The timing for pavement cuts shall be coordinated with the Project Representative in advance of pavement cuts in order to assure that property owners and persons using public roadways are inconvenienced as little as possible and that access to private property is maintained at all times. In addition to other methods for maintaining property access as described elsewhere in the specifications, the **CONTRACTOR** shall either backfill all trenches at the end of the day and place a temporary oil sand surface over streets or driveways or provide a steel traffic plate of sufficient size and thickness to safely bridge open trenches and allow vehicular access on streets or driveways.

The provision of this equipment and its subsequent maintenance and use shall be subsidiary to the various pay items established in the *Proposal* for furnishing and installing the Work. The provision and use of the steel traffic plate shall not relieve the **CONTRACTOR** from the obligation to backfill the trench and provide temporary gravel patching in paved areas as quickly as practical per the requirements in the *Technical Specifications*.

16.10.3 Traffic Control

The safety of the public and the convenience of traffic shall be regarded as of prime importance. The **CONTRACTOR** shall submit a traffic control plan along with the sequence of construction at the scheduled Pre-Construction Conference, if requested by the **CITY**. Unless otherwise directed, all portions of the streets in this project shall be kept open to traffic. It shall be the responsibility of the **CONTRACTOR** to ensure that two-way traffic (minimum 22' wide) on an all-weather surface may safely bypass the construction site and that access is provided to

abutting private property. An all-weather surface shall be of a material and depth as defined in the City of Tyler Unified Development Code and approved by the Project Representative.

The **CONTRACTOR** shall plan and execute all Work in a manner that will cause the minimum interference with traffic. The **CONTRACTOR** shall place, and maintain in good condition, standard barricades at each end of the project and at other locations where traffic is rerouted or blocked from using regular traffic lanes. Where the work on this project creates a safety hazard to the general public, the **CONTRACTOR** shall furnish and erect sufficient barricades and warning signs to warn the public of the danger. The **CONTRACTOR** shall also provide sufficient flares or other emergency lighting to warn the public at night. Barricades, signs, and traffic handling shall be in accordance with the Texas Manual on Uniform Traffic Control Devices (TMUTCD), the latest edition in effect at time of bidding, as adopted by the Texas Department of Transportation (TxDOT).

It shall be the responsibility of the **CONTRACTOR** to furnish, install, and maintain barricades, traffic control devices, signs, and flashers of the size and type specified at locations as shown in the approved traffic control plan throughout the limits of this project from the date of notice to proceed until final acceptance. When directed by the **CITY**, the **CONTRACTOR** shall do the necessary cleanup and finishing immediately after all or a portion of the pavement has been placed, as to allow the **CITY** to provide adequate traffic control to those portions of the completed roadway which will be open to traffic.

Unless specifically provided for under a bid item, barricades, signs and traffic handling shall be furnished, installed, and maintained at the **CONTRACTOR'S** expense.

In case the **CONTRACTOR** fails to provide ingress and egress to private property and/or maintain the proper barricades, signs, and flashers, the **CITY** may provide these services and deduct the cost thereof, including overtime and administrative expenses, from all payments thereafter due the **CONTRACTOR**.

The **CONTRACTOR** shall notify the Project Representative and Traffic Engineer, at least four (4) days (excluding Saturdays, Sundays, and holidays) in advance of beginning the proposed Work, of the **CONTRACTOR'S** intention to close or partially block the street or any part thereof, or of any construction affecting the free flow of traffic.

Should the **CONTRACTOR**, during the Work, reduce an existing two-way roadway to less than twenty-two (22) feet, the **CONTRACTOR** shall provide flagmen and route traffic through the construction area one lane at a time.

A flagman will be required at any time it is necessary for the **CONTRACTOR'S** equipment to move into or across an open traffic lane or at other such times as directed by the Project Representative. A flagman shall be utilized to aid the exit of hauling equipment from open traffic lanes to the work area, and the entry of hauling equipment from the work area to open traffic lanes.

The **CONTRACTOR** shall not remove and/or relocate any regulatory traffic control devices. The Traffic Engineer will be responsible for the removal and/or relocation of all regulatory traffic control devices. Detour routes, as required, will be approved by the Traffic Engineer. The Traffic Engineer will be responsible for the installation of any regulatory traffic control devices that may be required due to the construction of detour routes, excluding warning signs and

required warning lights attached thereto.

16.10.4 Erosion Control Plan

Unless otherwise stated in the *Special Conditions*, the **CONTRACTOR** will sequence construction and proceed in a manner that will minimize erosion. The **CONTRACTOR** will be responsible for installing and maintaining adequate erosion control mechanisms. The **CONTRACTOR** shall submit an erosion control plan at the scheduled Pre-Construction Conference, if requested by the **CITY**. Erosion control measures shall be in place prior to beginning earthwork activities. Unless otherwise noted, there will be no bid item for the payment of this Work.

16.10.5 Protection of Survey Monuments

The **CONTRACTOR** shall exercise care to preserve and not disturb existing survey monuments and property corner markers.

16.10.6 Manhole, Clean-Out, and Water Valve Locations

When a **CONTRACTOR** installs or lowers existing manholes, clean-outs, and water valves, it is the **CONTRACTOR'S** responsibility to establish the correct location of these appurtenances for future raising to grade. Any additional work needed to locate these appurtenances will be at the **CONTRACTOR'S** expense.

16.10.7 Water Sprinklers

All lawn water sprinkler systems damaged by the **CONTRACTOR**, whether on private property or in the public right of way, shall be repaired at the **CONTRACTOR'S** expense.

16.10.8 Existing Mailboxes

Unless otherwise noted in the plans and specifications, existing mailboxes along the project site will be removed and relocated as necessary by the **CONTRACTOR**. The **CONTRACTOR** must provide daily access to the mailboxes for the delivery of mail by letter carriers. Unless otherwise noted, there will be no bid item for the payment of this Work.

16.11 GENERAL PROVISIONS

16.11.1 Damages

In the event the **CITY** is damaged in the course of the Work by the act, negligence, omission, mistake or default of the **CONTRACTOR**, or should the **CONTRACTOR** unreasonably delay the progress of the work being done by others on the job so as to cause loss for which the **CITY** becomes liable, then the **CONTRACTOR** shall reimburse the **CITY** for such loss.

16.11.2 Losses From Natural Causes

Unless otherwise specified, all loss or damage to the **CONTRACTOR** arising out of the nature of the Work to be done, or from the action of the elements, or from any unforeseen circumstance in the prosecution of the same, or from unusual obstructions or difficulties which may be encountered in the prosecution of the Work, shall be sustained and borne by the **CONTRACTOR** at the **CONTRACTOR'S** own cost and expense.

16.11.3 Public Utilities

All utility adjustments necessary for the completion of the Work in this contract will be made by the owners of the affected utilities, provided said utilities are not made a part of the scope of this project and incorporated within the limits of this project as may be designated by bid items within the ***Proposal***. The **CONTRACTOR** shall use the utmost care to preserve and prevent damage to existing utilities. If at any time the **CONTRACTOR** damages the utilities in place through negligence or carelessness, the **CONTRACTOR** shall pay for the full cost of repairing such damages. Underground utilities shown on these plans are drawn based on records, surface evidence, excavations at certain locations, and best recollection. The **CONTRACTOR** is responsible for carefully locating each underground utility prior to start of construction.

16.11.4 Ozone Action Day

The City of Tyler has adopted Ozone Action Day guidelines to be used on days designated as Ozone Actions Days. All outside **CONTRACTORS** will be required to adhere to these guidelines. Local television stations will advise of an “Ozone Action Day” and the **CITY** will announce the action day over the local government access channel the day prior to an action day. In addition, the **CONTRACTOR** may also be notified of an Ozone Action Day by the Project Representative.

On Ozone Action Days, the Project Representative will work with the **CONTRACTOR** to reduce ozone producing precursors by implementing the **CITY'S** Ozone Action Plan. This plan shall include, but not be limited to:

- A. Consider work schedules that will reduce equipment and vehicle usage in the morning hours during the normal ozone producing season of May through September.
- B. Delay fueling of vehicles until the advisory is over. If fueling is necessary, do so in the late afternoon or early evening. Avoid overfilling the tank and allowing fuel to spill onto the ground. Limit vehicle trips as much as possible. Coordinate activities to avoid duplication of trips. If possible, schedule trips for afternoons.
- C. Avoid idling vehicles unnecessarily. Limit use of weed eaters, tractors, lawnmowers, and power tools. Ensure that all vehicles and equipment are tuned and maintained according to manufacturer's tune-up and emissions control standards.
- D. Schedule the use of heavy equipment for non-ozone action days. Turn off lights and equipment to reduce power load when vehicles are not in use.
- E. Eliminate the use of oil-based paints requiring hydrocarbon based solvents on all action days.

16.12 PROSECUTION AND PROGRESS

16.12.1 Time and Order of Completion

It is the meaning and intent of this contract, unless otherwise herein specifically provided, that the **CONTRACTOR** shall be allowed to prosecute the Work at such times and seasons, in such order of precedence, and in such manner as shall be most conducive to economy of construction: provided, however, that the order and the time of prosecution shall be such that the Work shall be completed in full, in accordance with this contract, the plans and specifications, and within the time of completion designated in the ***Standard Form of Agreement***; provided, also, that when the **CITY** is having other work done, either by contract or by its own force, the **CITY** may direct the time and manner of constructing the Work done under this contract, so that conflict will be avoided and the construction of the various works being done for the **CITY** shall be harmonized.

Upon request, the **CONTRACTOR** must, within seven (7) calendar days thereafter, submit a proposed sequence of construction to the Project Designer for review and approval. The **CONTRACTOR** shall also submit, upon request, a construction progress schedule which shall show the order in which the **CONTRACTOR** proposes to carry on the Work, with dates at which the **CONTRACTOR** will start the various parts of the Work, and estimated dates of completion of the various parts. During the course of the Work, the **CONTRACTOR** shall make updates to the construction progress schedule and shall submit the updates to the Project Designer upon request.

16.12.2 Computation of Contract Time for Completion

The **CONTRACTOR** shall complete the Work in full within the number of working/calendar days, or by the mandatory completion date, stated in the **Standard Form of Agreement**. For the purpose of computation, working/calendar days will be considered as starting on the tenth (10th) day after the date of the written **Notice to Proceed**.

16.12.3 Liquidated Damages

The time set forth in the **Standard Form of Agreement** for the completion of the Work is an essential element of the contract. For each working/calendar day that any Work shall remain uncompleted after the expiration of the working/calendar days specified in the contract, together with any additional working/calendar days allowed, the amount per day given in the following schedule will be deducted from the money due, or to become due, the **CONTRACTOR**, not as a penalty, but as liquidated damages:

Amount of Contract Total Awarded Construction Amount	Amount of Liquidated Damages to be deducted per Working or Calendar Day
Less than \$ 50,000	\$ 50
\$ 50,001 to \$ 100,000	\$ 100
\$ 100,001 to \$ 500,000	\$ 200
\$ 500,001 to \$ 1 million	\$ 400
\$ 1,000,001 to \$ 5 million	\$ 1,000
Over \$ 5,000,000 (5 million)	0.02%

16.12.4 Extension of Time

Should the **CONTRACTOR** be delayed in the completion of the Work by any act or neglect of the **CITY** or Project Designer, or any employee of either, or by other contractors employed by the **CITY**, or by changes ordered in the Work, or by strikes, lockouts, fires, and unusual delays by common carriers, or unavoidable cause or causes beyond the **CONTRACTOR'S** control, or by any cause which the Project Designer shall decide justifies the delay, then an extension of time shall be allowed for completing the Work, sufficient to compensate for the delay, the amount of the extension to be determined by the Project Designer, provided, however, that the **CONTRACTOR** shall give the Project Designer prompt notice in writing of the cause of such delay.

16.12.5 Inclement Weather

"Unusual Inclement Weather" is defined as a rain event beyond that which is defined as "normal rainfall" or other weather-related event which occurs at the site and is of sufficient magnitude to prevent the **CONTRACTOR** from performing units of Work critical to maintaining the progress schedule.

Under a calendar day contract, the **CONTRACTOR** may be granted an extension of time because of unusual inclement weather, including but not limited to unusual rainfall events, which are beyond the normal rainfall recorded and expected for Tyler, Texas. However, the **CONTRACTOR** will not be granted an extension of time for "normal rainfall", as described below.

"Normal rainfall" compiled by the National Climatic Data Center for Tyler, Texas is considered a part of the calendar day contract, and is not a justification for an extension of time. Listed below are the number of days in each month for which no compensatory days for rainfall events ("Rain Days") in such months may be claimed:

<u>Month</u>	<u>No. Days</u>
January	3
February	4
March	4
April	5
May	4
June	4
July	4
August	2
September	3
October	3
November	4
December	5

Rain days in addition to the baseline rain day determination described above will be measured with the Project Representative's approval at the nearest operational public weather data collection facility to the site, including but not limited to the **CITY'S** early warning flood gauge system.

The **CONTRACTOR** may receive credit in any month for unusual inclement weather, and specifically for any rain days in that month which exceed the number of rain days allocated to that month, if a claim is made and the weather event meets the definition for unusual inclement weather, and as applicable, such claimed day is a day on which Work critical to maintaining the progress schedule is scheduled to be performed and is otherwise capable of being performed.

16.12.6 Hindrances and Delays

No claims shall be made by the **CONTRACTOR** for damages resulting from hindrances or delays from any cause, except where the Work is stopped by order of the **CITY** or their representatives during the progress of any portion of the Work embraced in this contract. In case said Work shall be stopped by the act of the **CITY** or their representatives, then such expense, in the judgment of the Project Designer, as caused by such stoppage of said Work shall be paid by the **CITY** to the **CONTRACTOR**.

16.13 MEASUREMENT AND PAYMENT

16.13.1 Quantities and Measurements

No extra or custom measurements of any kind will be allowed, but the actual measured and/or computed length, area, solid contents, number and weight only shall be considered, unless otherwise specifically provided.

16.13.2 Estimated Quantities

This AGREEMENT, including the specifications, plans and *Proposal* is intended to show clearly all Work to be done and material to be furnished hereunder. Where the estimated quantities are shown for the various classes of Work to be done and material to be furnished under this contract, they are approximate and are to be used only as a basis for estimating the probable cost of the Work and for comparing the proposals offered for the Work. It is understood and agreed that the actual amount of Work to be done and material to be furnished under this contract may differ somewhat from these estimates, and that where the basis for payment under this contract is the unit price method, payment shall be for the actual amount of such Work done and the material furnished.

Where payment is based on the unit price method, the **CONTRACTOR** will make no claim for damages, anticipated profits or otherwise on account of any differences which may be found between the quantities of Work actually done, the material actually furnished under this contract and the estimated quantities contemplated and contained in the *Proposal*; provided, however, that in case the actual quantity of any major item should become as much as twenty percent (20%) more than, or twenty percent (20%) less than the estimated or contemplated quantity for such items, then either party to this AGREEMENT, upon demand, shall be entitled to a revised consideration upon the portion of the Work above or below twenty percent (20%) of the estimated quantity.

A "Major Item" shall be construed to be any individual bid item incurred in the *Proposal* that has a total cost equal to or greater than five percent (5%) of the total contract cost, computed on the basis of the *Proposal* quantities and the contract unit prices.

When "plan quantity" is indicated for a bid item, **CONTRACTOR** shall be paid the amount specified in the contract documents without any measurement.

Any revised consideration is to be determined by agreement between the parties, otherwise by the terms of this AGREEMENT, as provided in Section 16.14, "Extra Work and Claims".

16.13.3 Price of Work

In consideration of the furnishing of all the necessary labor, equipment and material, and the completion of all Work by the **CONTRACTOR**, and on the completion of all Work and of the delivery of all material embraced in this contract in full conformity with the specifications and stipulations herein contained, the **CITY** agrees to pay the **CONTRACTOR** the prices set forth in the *Proposal* hereto attached, which has been made a part of this contract. The **CONTRACTOR** hereby agrees to receive such prices in full for furnishing all material and all labor required for the aforesaid Work, also for all expenses incurred, and for well and truly performing the same and the whole thereof in the manner and according to this AGREEMENT.

Where alternate methods of payment are allowed, the method of payment shall be as shown in the *Proposal*.

16.13.4 Arrears

No money shall be paid by the **CITY**, upon any claims, debt, demand, or account whatsoever, to any person, firm, or corporation who is in arrears to the City of Tyler for taxes; and the **CITY** shall be entitled to counterclaim and offset against any such debt, claim, demand, or account in the amount of taxes so in arrears, and no assignment or transfers of such debt, claim, demand, or account after the said taxes are due, shall affect the right of the **CITY** to do so offset the said taxes against the same.

16.13.5 Payments Withheld

The **CITY** may, on account of subsequently discovered evidence, withhold or nullify the whole or part of any certificate to such extent as may be necessary to be protected from loss on account of:

- A. Defective Work not remedied.
- B. Claims filed or reasonable evidence indicating probable filing of claims.
- C. Failure of the **CONTRACTOR** to make payments properly to sub-contractors or for material or labor.
- D. Damage to the **CITY** or another contractor.
- E. Reasonable doubt that the Work can be completed for the unpaid balance of the contract amount.
- F. Reasonable indication that the Work will not be completed within the contract time.
- G. Failure to submit a construction progress schedule or to submit updates to the construction progress schedule upon request of the **CITY**.

When the above grounds are removed or the **CONTRACTOR** provides a Surety Bond satisfactory to the **CITY**, which will protect the **CITY** in the amount withheld, payment shall be made for amounts withheld because of them.

16.13.6 Partial Payments

On or before the tenth (10th) day of each month, the **CONTRACTOR** shall prepare and submit to the Project Designer for review and approval a statement showing as completely as practicable the total value of the Work done by the **CONTRACTOR** up to and including the last day of the preceding month; said statement shall also include the value of all sound materials delivered on the site of the Work that are to be fabricated into the Work.

The **CITY** shall then pay the **CONTRACTOR** the total amount of the approved statement, less five percent (5%) or ten percent (10%) of the amount thereof, which five percent (5%) or ten percent (10%) shall be retained until final payment, and further less all-previous payments and all further sums that may be retained by the **CITY** under the terms of this AGREEMENT. If the contract amount is less than four-hundred thousand (\$400,000), ten percent (10%) of the approved statement will be retained. If the contract amount is four-hundred thousand (\$400,000) or greater, five percent (5%) of the approved statement will be retained. It is understood, however, that in case the whole Work be near to completion and some unexpected and unusual delay occurs due to no fault or neglect on the part of the **CONTRACTOR**, the **CITY** may, upon written recommendation of the Project Designer, pay a reasonable and equitable portion of the retained percentage to the **CONTRACTOR**, or the **CONTRACTOR** at the **CITY'S** option,

may be relieved of the obligation to fully complete the Work and, thereupon, the **CONTRACTOR** shall receive payment of the balance due under the contract subject only to the conditions stated under Section 16.13.11, "Final Payment".

16.13.7 Records of Materials Purchased

On or before the tenth (10th) day of each month, the **CONTRACTOR** shall furnish to the Project Designer, one copy of all invoices for materials furnished to be incorporated into the Work, plus a statement of all materials previously included on monthly estimates and incorporated into the Work during the preceding month. This information is to be used to determine the value of materials on hand to be included in the monthly estimate for periodic payments.

If the **CONTRACTOR** fails to furnish this information, no materials shall be included on the monthly estimates until they are permanently incorporated into the Work.

16.13.8 Use of Completed Portions

The **CITY** shall have the right to take possession of and use any completed or partially completed portions of the Work, notwithstanding the time for completing the entire Work or such portions may not have expired, but such taking possession and use shall not be deemed an acceptance of any Work not completed in accordance with the contract documents. If such prior use increases the cost of or delays the Work, the **CONTRACTOR** shall be entitled to such extra compensation, or extension of time, or both, as the Project Designer may determine.

16.13.9 Substantial Completion

The **CONTRACTOR** shall notify the Project Representative when, in the **CONTRACTOR'S** opinion, the Work is substantially complete and when so notifying the Project Representative, the **CONTRACTOR** shall furnish to the Project Representative in writing a detailed list of unfinished Work. The Project Representative will review the **CONTRACTOR'S** list of unfinished Work and will add thereto such items as the **CONTRACTOR** has failed to include. The "substantial completion" of the structure or facility shall not excuse the **CONTRACTOR** from performing all of the Work undertaken, whether of a minor or major nature, and thereby completing the structure or facility in accordance with the contract documents.

16.13.10 Final Completion and Acceptance

When all Work has been completed on this contract:

- A. The **CONTRACTOR** shall clean and remove from the site of the Work, all surplus and discarded material, temporary structures and debris of every kind. The **CONTRACTOR** shall leave the site of the Work in a neat and orderly condition equal to or better than that which originally existed.
- B. The **CONTRACTOR** shall furnish to the Project Designer a notification stating that all Work has been completed in accordance with the plans and specifications.
- C. Final inspection will be made. If the Work is found to be incomplete or defective, the **CONTRACTOR** shall take whatever measures as are necessary to complete such Work or remedy such deficiencies.
- D. The **CONTRACTOR** shall pay all bills for materials and labor which were incurred in performance of this contract and shall file with the **CITY** a notarized **Contractor's Affidavit of Bills Paid**. In the event the **CONTRACTOR** is unable to pay all bills before receiving final payment, the **CONTRACTOR** shall furnish to the **CITY** an affidavit that all bills are paid except those listed in the affidavit. The list of unpaid bills in the affidavit shall include the amount owed and what the bill is for. This affidavit shall further certify

that the **CITY** has the **CONTRACTOR'S** permission to make out separate checks jointly to the **CONTRACTOR** and the company or person to whom each bill is owed. The **CONTRACTOR** shall also provide the **CITY** with applicable Waiver and Release forms (*conditional/unconditional*) covering all labor, services, equipment, or materials furnished to property covered under this Agreement or to persons with whom **CONTRACTOR** contracted with in the performance of this Agreement. A waiver and release given by a **CONTRACTOR** shall substantially comply with the applicable form described in Tex. Prop. Code § 53.284, subsections (d) - (e).

- E. The **CONTRACTOR** shall provide consent of surety, if any, to final payment. If surety is not provided, the **CONTRACTOR** shall provide complete and legally effective releases or waivers (satisfactory to **CITY**) of all claims arising out of or filed in connection with the Work.
- F. The **CONTRACTOR** shall furnish to the **CITY** a one (1) year maintenance bond for one hundred percent (100%) of the total contract, in favor of the **CITY**.

If the Work is found to be complete in accordance with the contract documents and the *Contractor's Affidavit of Bills Paid* and applicable *Waiver and Release forms* have been filed with the **CITY**, written notice of final acceptance will be made by the **CITY** and final payment will be made in accordance with the terms of the contract documents.

16.13.11 Final Payment

Upon receipt of the notification of final acceptance, the Project Designer shall proceed to make final measurements and prepare a final statement of the value of all Work performed and materials furnished under the terms of the AGREEMENT and shall certify same to the **CITY**. The **CITY** shall pay to the **CONTRACTOR** the balance due the **CONTRACTOR** under the terms of this AGREEMENT, provided the **CONTRACTOR** has fully performed all contractual obligations under the terms of this contract; and said payment shall become due in any event upon said performance by the **CONTRACTOR**. Neither the written notice of final acceptance nor the final payment, nor any provision in the contract documents, shall relieve the **CONTRACTOR** of the obligation for fulfillment of any warranty which may be required.

16.14 EXTRA WORK AND CLAIMS

16.14.1 Changes and Alterations

The **CITY** may make such additions, deletions or revisions as the **CITY** may see fit, in the line, grade, form, dimensions, plans or materials for the Work herein contemplated, or any part thereof, either before or after the beginning of the construction, without affecting the validity of this contract and the accompanying *Statutory Performance and Maintenance Bond* and *Payment Bonds*.

If such changes or alterations diminish the quantity of the Work to be done, they shall not constitute the basis for a claim for damages, or anticipated profits on the Work that may be dispensed with, except as provided for unit price items under Section 16.13, "Measurement and Payment." If the amount of Work is increased, and the Work can fairly be classified under the specifications, such increase shall be paid for according to the quantity actually done and at the unit price, if any, established for such Work under this contract, except as provided for unit price items under Section 16.13, "Measurement and Payment"; otherwise, such additional Work shall be paid for as provided under Section 16.14, "Extra Work and Claims". In case the **CITY** shall

make such changes or alterations as shall make useless any Work already done or material already furnished or used in said Work, then the **CITY** shall recompense the **CONTRACTOR** for any material or labor so used, and for any actual loss occasioned by such change, due to actual expenses incurred in preparation for the Work as originally planned.

16.14.2 Change Orders

Without invalidating this AGREEMENT, the **CITY** may, at any time or from time to time, order additions, deletions or revisions to the Work; such changes will be authorized by change order to be prepared by the Project Designer for execution by the **CITY** and the **CONTRACTOR**. The change order shall set forth the basis for any change in contract price, as hereinafter set forth for Extra Work, and any change in contract time which may result from the change.

In the event the **CONTRACTOR** shall refuse to execute a change order which has been prepared by the Project Designer and executed by the **CITY**, the Project Designer may in writing instruct the **CONTRACTOR** to proceed with the Work as set forth in the change order and the **CONTRACTOR** may make claim against the **CITY** for Extra Work involved therein, as hereinafter provided.

16.14.3 Minor Changes

The Project Representative may authorize minor changes in the Work not inconsistent with the overall intent of the contract documents and not involving an increase in contract price by field order. If the **CONTRACTOR** believes that any minor change or alteration authorized by the Project Representative involves Extra Work and entitles the **CONTRACTOR** to an increase in the contract price, the **CONTRACTOR** shall make written request to the Project Designer for a written change order.

In such case, the **CONTRACTOR**, by copy of the **CONTRACTOR'S** communication to the Project Designer or otherwise in writing, shall advise the **CITY** of the **CONTRACTOR'S** request to the Project Designer for a written change order and that the Work involved may result in an increase in the contract price.

Any request by the **CONTRACTOR** for a change in contract price shall be made prior to beginning the Work covered by the proposed change.

16.14.4 Extra Work

It is agreed that the basis of compensation to the **CONTRACTOR** for Work either added or deleted by a change order or for which a claim for Extra Work is made shall be determined by one or more of the following methods:

Method (A) - By agreed unit prices; or

Method (B) - By agreed lump sum; or

Method (C) - If neither Method (A) nor Method (B) be agreed upon before the Extra Work is commenced, then the **CONTRACTOR** shall be paid the "actual field cost" of the Work, plus fifteen percent (15%).

In the event said Extra Work be performed and paid for under Method (C), then the provisions of this paragraph shall apply and the "actual field cost" is hereby defined to include the cost to the **CONTRACTOR** of all workers, such as foreman, timekeepers, mechanics and laborers, and materials, supplies, trucks, rentals on machinery and equipment, for the time actually employed or used on such Extra Work, plus actual transportation charges necessarily incurred, together

with all power, fuel, lubricants, water and similar operating expenses, also all necessary incidental expenses incurred directly on account of such Extra Work, including Social Security, payroll taxes and other benefits, and, a rateable proportion of premiums on **Performance and Maintenance Bond** and **Payment Bonds**, Public Liability and Property Damage and Worker's Compensation, and all other insurance as may be required by any law or ordinance, or directed by the **CITY**, or by them agreed to. The Project Designer may direct the form in which accounts of the "actual field cost" shall be kept and the records of these accounts shall be made available to the Project Designer.

The Project Designer or **CITY** may also specify in writing, before the Work commences, the method of doing the work and the type and kind of machinery and equipment to be used; otherwise, these matters shall be determined by the **CONTRACTOR**. Unless otherwise agreed or specified, the prices for the use of machinery and equipment shall be determined by using one hundred percent (100%) of the latest schedule of Equipment Ownership Expense adopted by the Associated General Contractors of America. Where practicable the terms and prices for the use of machinery and equipment shall be incorporated in the written Extra Work order. The fifteen percent (15%) of the "actual field cost" to be paid the **CONTRACTOR** shall cover and compensate the **CONTRACTOR** for profit, overhead, general superintendence and field office expense, and all other elements of cost and expense not embraced within the "actual field cost" as herein defined, except where the **CONTRACTOR**'S camp or field office must be maintained primarily on account of such Extra Work; then the cost to maintain and operate the same shall be included in the "actual field cost".

No claim for Extra Work of any kind will be allowed unless ordered in writing by the Project Designer. In case any orders or instructions, either oral or written, appear to the **CONTRACTOR** to involve Extra Work for which the **CONTRACTOR** should receive compensation or an adjustment in the construction time, the **CONTRACTOR** shall make written request to the Project Designer for written order authorizing such Extra Work. Should a difference of opinion arise as to what does or does not constitute Extra Work, or as to the payment therefore, and the Project Designer insists upon its performance, the **CONTRACTOR** shall proceed with the Work after making written request for written order and shall keep an accurate account of the "actual field cost" thereof, as provided under Method (C).

16.14.5 Time of Filing Claims

All questions of dispute or adjustment presented by the **CONTRACTOR** shall be in writing and filed with the Project Designer within thirty (30) calendar days after the Project Designer has given any directions, order or instruction to which the **CONTRACTOR** desires to take exception. The Project Designer shall reply within thirty (30) calendar days to such written exceptions by the **CONTRACTOR** and render the final decision in writing. It is further agreed that final acceptance of the Work by the **CITY** and the acceptance by the **CONTRACTOR** of the final payment shall be a bar to any claims by either party, except where noted otherwise in the contract documents.

16.15 ABANDONMENT OF CONTRACT

16.15.1 Abandonment by Contractor

Absence of the **CONTRACTOR** from the project for more than fourteen (14) consecutive calendar days, without written consent from the **CITY**, or if the **CONTRACTOR** fails to

perform the Work in accordance with the contract documents, including but not limited to, failure to supply sufficient skilled workmen or suitable materials or equipment or failure to adhere to the progress schedule, will constitute abandonment of the project. In case the **CONTRACTOR** should abandon and fail or refuse to resume work within ten (10) calendar days after written notification from the **CITY**, or if the **CONTRACTOR** fails to comply with the orders of the Project Representative, when such orders are consistent with the contract documents, then, and in that case, where performance and payment bonds exist, the Sureties on these bonds shall be notified in writing and directed to complete the Work, and a copy of said notice shall be delivered to the **CONTRACTOR**.

After receiving said notice of abandonment the **CONTRACTOR** shall not remove from the Work any machinery, equipment, tools, materials or supplies then on the job, but the same, together with any materials and equipment under contract for the Work, may be held for use on the Work by the **CITY** or the Surety on the performance bond, or another **CONTRACTOR** in completion of the Work; and the **CONTRACTOR** shall not receive any rental or credit (except when used in connection with Extra Work, where credit shall be allowed as provided for under Section 16.14, "Extra Work and Claims"), it being understood that the use of such equipment and materials will ultimately reduce the cost to complete the Work and be reflected in the final settlement.

Where there is no performance bond provided or in case the Surety should fail to commence compliance with the notice for completion herein before provided for, within ten (10) calendar days after service of such notice, then the **CITY** may provide for completion of the Work in either of the following elective manners:

- A. The **CITY** may thereupon employ such force of men and use such machinery, equipment, tools, materials and supplies as said **CITY** may deem necessary to complete the Work and charge the expense of such labor, machinery, equipment, tools, materials and supplies to said **CONTRACTOR**, and expense so charged shall be deducted and paid by the **CITY** out of such moneys as may be due, or that may thereafter at any time become due to the **CONTRACTOR** under and by virtue of this AGREEMENT. In case such expense is less than the sum which would have been payable under this contract, if the same had been completed by the **CONTRACTOR**, then said **CONTRACTOR** shall not receive the difference. In case such expense is greater than the sum which would have been payable under this contract, if the same had been completed by said **CONTRACTOR**, then the **CONTRACTOR** and/or the **CONTRACTOR'S** Surety shall pay the amount of such excess to the **CITY**; or
- B. The **CITY**, under sealed bids, may let the contract for the completion of the Work under substantially the same terms and conditions which are provided in this contract. In case any increase in cost to the **CITY** under the new contract as compared to what would have been the cost under this contract, such increase shall be charged to the **CONTRACTOR** and the Surety shall be and remain bound therefor. However, should the cost to complete any such new contract prove to be less than what would have been the cost to complete under this contract, the **CONTRACTOR** and/or the **CONTRACTOR'S** Surety shall not be credited therewith.

When the Work shall have been substantially completed the **CONTRACTOR** and the **CONTRACTOR'S** Surety shall be so notified and notifications of completion and final acceptance, as provided herein above, shall be issued. A complete itemized statement of the contract accounts, certified to by the Project Designer as being correct, shall then be prepared and delivered to the **CONTRACTOR** and the **CONTRACTOR'S** Surety, whereupon the

CONTRACTOR and/or the **CONTRACTOR'S** Surety, shall pay the balance due as reflected by said statement, within fifteen (15) calendar days after the date of such notification of completion.

In the event the statement of accounts shows that the cost to complete the Work is less than that which would have been the cost to the **CITY** had the Work been completed by the **CONTRACTOR** under the terms of this contract; or when the **CONTRACTOR** and/or the **CONTRACTOR'S** Surety shall pay the balance shown to be due by them to the **CITY**, then all machinery, equipment, tools, materials or supplies left on the site of the Work shall be turned over to the **CONTRACTOR** and/or the **CONTRACTOR'S** Surety. Should the cost to complete the Work exceed the contract price, and the **CONTRACTOR** and/or the **CONTRACTOR'S** Surety fail to pay the amount due the **CITY** within the time designated herein above, and there remains any machinery, equipment, tools, materials or supplies on the site of the Work, notice thereof, together with an itemized list of such equipment and materials, shall be mailed to the **CONTRACTOR** and the **CONTRACTOR'S** Surety at the respective addresses designated in this contract, provided, however, that actual written notice given in any manner will satisfy this condition. After mailing, or other giving of such notice, such property shall be held at the risk of the **CONTRACTOR** and the **CONTRACTOR'S** Surety subject only to the duty of the **CITY** to exercise ordinary care to protect such property. After fifteen (15) calendar days from the date of said notice, the **CITY** may sell such machinery, equipment, tools, materials or supplies and apply the net sum derived from such sale to the credit of the **CONTRACTOR** and the **CONTRACTOR'S** Surety. Such sale may be made at either public or private sale, with or without notice, as the **CITY** may elect. The **CITY** shall release any machinery, equipment, tools, materials, or supplies, which remain on the Work, and belong to persons other than the **CONTRACTOR** or the **CONTRACTOR'S** Surety, to their proper owners. The books on all operations provided herein shall be open to the **CONTRACTOR** and the **CONTRACTOR'S** Surety.

Section 17 SPECIAL CONDITIONS

Special Conditions of Agreement for Tyler Capital Improvement Project (CIP) Contracts

Check Here if this Section is NOT Used

VOID

**Section 18 TECHNICAL AND/OR SPECIAL
SPECIFICATIONS; PLANS AND OTHER DRAWINGS;
OTHER DOCUMENTS AS NEEDED**

Check Here if this Section is NOT Used

Technical and/or Special Specifications

- 024119 – Selective Demolition
- 024115 – Paving Removal
- 311100 – Site Clearing & Grubbing
- 312000 – Earth Moving
- 312500 – Erosion Control
- 321313 – Concrete Paving
- 321373 – Concrete Paving Joint Sealants
- 321723 – Pavement Markings
- 323300 – Site Furnishings
- 329300 – Hydraulic Seeding

Plans and Other Drawings

Section 19 CERTIFICATE OF INTERESTED PARTIES

(Form 1295)

Check Here if this Section is NOT Used

**[CONTRACTOR - Insert Certificate of Interested Parties (Form 1295) Here]
[CITY – Insert Acknowledged Certificate of Interested Parties (Form 1295) Here]**

In accordance with House Bill 1295, for certain contracts entered into on or after January 1, 2016, **CONTRACTORS** must submit a *Certificate of Interested Parties* form at the time the **CONTRACTOR** submits the signed contract to the **CITY**. This applies only to contracts with a value greater than \$25,000.

The *Certificate of Interested Parties* (Form 1295) must be filed electronically with the Texas Ethics Commission using the online filing application located at https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm.

First time users need to create an account to register and receive a password. Click on the “Log In” button and then click on “Form 1295 Filings”. In the next screen, click the link that says “Click here if you don’t have a user ID”. Enter the requested information, select the “User Type” of “Business Entity” and click on the “Create Account” button. An email will be sent to the email address you provided with a link to finish setting up your account. Follow the link provided in the email to complete the process of setting up your account. Enter all of the requested information and hit the “Save” button. A screen will appear with the information you have provided. Please verify this information and, if it is correct, click on “Accept”. If it is not correct, click on “Update” and make the needed corrections.

Once an account is established, **CONTRACTORS** must log in to create a new *Certificate of Interested Parties* (Form 1295). Hand-written copies are not acceptable. Go to https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm. Click the “Log In” button and then click on “Form 1295 Filings”. Enter your email address and password, select the “User Type” of “Business Entity” and click on the “Login” button. A screen with your user information will appear. If it is correct, click on “Accept”. Click on the “Manage My 1295 Forms” button and then “Start a New Certificate”. When the blank form comes up, enter the requested information into the appropriate boxes. Also enter the following information:

Who is the Contract With? Select “Other Governmental Agency”

Agency/Entity Name: Enter “City of Tyler”

Contract ID Number: Enter the City of Tyler Bid Number, located on the cover of the contract

Description of Goods and Services to be provided: Enter the Project Name, located on the cover of the contract

For the purpose of this requirement, the following definitions apply:

Interested party means: (1) a person who has a controlling interest in a business entity with whom a governmental entity or state agency contracts; or (2) a person who actively

participates in facilitating a contract or negotiating the terms of a contract with a governmental entity or state agency, including a broker, intermediary, adviser, or attorney for the business entity.

Controlling interest means: (1) an ownership interest or participating interest in a business entity by virtue of units, percentage, shares, stock, or otherwise that exceeds 10 percent; (2) membership on the board of directors or other governing body of a business entity of which the board or other governing body is composed of not more than 10 members; or (3) service as an officer of a business entity that has four or fewer officers, or service as one of the four officers most highly compensated by a business entity that has more than four officers.

Intermediary means: a person who actively participates in the facilitation of the contract or negotiating the contract, including a broker, adviser, attorney, or representative of or agent for the business entity who:

- 1) receives compensation from the business entity for the person's participation;
- 2) communicates directly with the governmental entity or state agency on behalf of the business entity regarding the contract; and
- 3) is not an employee of the business entity.

If there are no interested parties, check the box indicating that there are none and then hit the "Next" button. If there are interested parties, click the "Add More" button located under the "List of Interested Parties" section of the form. Enter the requested information about the interested party. Click the "Add More" button for each additional interested party. When all interested parties have been entered, hit the "Next" button.

At the next screen, check the box indicating that you affirm that the information provided is correct. Also, enter the requested information and then hit "Submit". At the next screen, hit the "Print" button, then click "Open with Adobe Acrobat Reader" to create a pdf of the ***Certificate of Interested Parties*** (Form 1295). When the pdf opens, make sure to verify that all of the information is correct. You cannot change information in the form once it has been entered. If you find that information has been entered incorrectly, you will need to start a new form and re-enter all of the information.

If the form is correct, print out one (1) copy of the ***Certificate of Interested Parties*** (Form 1295) and sign and notarize it. Make as many additional photocopies as necessary and attach the original form in Section 19, "Certificate of Interested Parties" in one contract book and the photocopies in Section 19, "Certificate of Interested Parties" in the remaining contract books.

Upon receipt of the executed contracts from the **CONTRACTOR**, the **CITY** will acknowledge the ***Certificate of Interested Parties*** (Form 1295) and file the acknowledged form with the original form in the **CITY'S** files.

SECTION 024115

PAVING REMOVAL

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes

1. Removing concrete paving.
2. Removing concrete curb and gutter.
3. Disposal of removed materials.

1.2 REFERENCES

A. ASTM International (ASTM):

- a. D698, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³)

PART 2 - PRODUCTS

None

PART 3 - EXECUTION

3.1 PREPARATION

A. General:

1. Mark paving removal limits for City approval prior to beginning removal.
2. Identify known utilities below grade - Stake and flag locations.

3.2 PAVEMENT REMOVAL

A. General.

1. Exercise caution to minimize damage to underground utilities.
2. Minimize amount of earth removed.
3. Remove paving to neatly sawed joints.
4. Use care to prevent fracturing adjacent, existing pavement.

B. Sawing

1. Sawing Equipment.
 - a. Power-driven.
 - b. Manufactured for the purpose of sawing pavement.
 - c. In good operating condition.
 - d. Shall not spall or fracture the pavement structure adjacent to the removal area.
2. Sawcut perpendicular to the surface to full pavement depth, parallel and perpendicular to existing joint.
3. Sawcut parallel to the original sawcut in square, rectangular, or diagonal fashion.
4. If a sawcut falls within 5 feet of an en existing dummy joint, construction joint, saw joint, cold joint, expansion joint, edge of paving or gutter lip, remove paving to that joint, edge or lip.
5. If a pavement edge of a cut is damaged subsequent to saw cutting, saw to a new, neat, straight line for the purpose of removing the damaged area.

C. Remove Concrete Curb and Gutter

1. Sawcut: See 3.2 B.
2. Minimum limits of removal: 30 inches in length.

END OF SECTION 024115

SECTION 024119

SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected site elements.

1.2 MATERIALS OWNERSHIP

A. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1. Existing playground equipment.

2. Existing park furniture including, benches, picnic tables, and trash cans.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.

1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

C. All other items unless otherwise indicated, demolition waste becomes property of Contractor.

1.3 PREDEMOLITION MEETINGS

A. Predemolition Conference: Conduct conference at Project site.

1.4 INFORMATIONAL SUBMITTALS

A. Engineering Survey: Submit engineering survey of condition of building and pavilion.

B. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.

C. Schedule of selective demolition activities with starting and ending dates for each activity.

D. Predemolition photographs or video.

1.5 CLOSEOUT SUBMITTALS

A. Inventory of items that have been removed and salvaged.

1.6 FIELD CONDITIONS

- A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- F. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.7 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Perform an engineering survey of condition of building and pavilion to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.

- C. Inventory and record the condition of items to be removed and salvaged.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor. 2. Arrange to shut off utilities with utility companies.
 - 3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.

3.3 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- C. Remove temporary barricades and protections where hazards no longer exist.

3.4 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.

2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
4. Maintain fire watch during and for at least 2 hours after flame-cutting operations.
5. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
6. Dispose of demolished items and materials promptly.

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Removed and Salvaged Items:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area.
4. Protect items from damage during storage.

D. Removed and Reinstalled Items:

1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 CLEANING

A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. Burning: Do not burn demolished materials.

C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

SECTION 311100
SITE CLEARING AND GRUBBING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

1.2 SECTION INCLUDES

- A. Protection of existing features.
- B. Clearing and grubbing.
- C. Debris removal.

1.3 RELATED SECTIONS

- A. Grading – Section 312200
- B. Earth Moving – Section 312000

PART 2 - PRODUCTS

Not Applicable.

PART 3 - EXECUTION

3.1 GENERAL

- A. Site clearing and grubbing shall consist of the removal and disposal of trees, stumps, brush, roots, vegetation, logs, rubbish, and other objectionable matter from the construction area.

3.2 PREPARATION FOR WORK

- A. Verify that existing plant life designated to remain, if any, is tagged or identified, and protected as described in the Specifications.
- B. Verify and protect survey control.

3.3 PROTECTION OF EXISTING FEATURES

- A. Locate, identify, and protect from damage utilities to remain.
- B. Protect trees, plant growth, and features designated to remain.
- C. Protect benchmarks and survey control from damage or displacement.

3.4 CLEARING AND GRUBBING

- A. The designated construction area shall be cleared of all trees, brush, shrubbery, and plants, not indicated on Drawings to be preserved. Trees and brush designated to be left in place shall be

carefully trimmed as directed and shall be protected from scarring, barking or other injuries during construction operations. Pruned limbs over 2 inches in diameter shall be treated by painting the exposed ends with an approved asphaltic material. Stumps, roots, and other objectionable material shall be removed from areas requiring fill or from borrow sites and/or materials sources to the complete extent necessary to prevent objectionable matter from becoming mixed with the material to be used on construction.

- B. Unless otherwise provided, all merchantable timber removed as previously specified shall become the property of the Contractor. It is the intent of this specification to provide for the removal and disposal of all obstructions and objectionable materials not specifically provided for elsewhere by the Contract Documents.
- C. Remove existing concrete and asphalt paving, curb, gutter, walks and other items shown or described to be removed in the Contract Documents.
- D. Remove trees, shrubs and other plant life within the site shown or described to be removed in the Contract Documents. Remove tree and shrub stumps and root system to a depth of 24 inches below existing grades. Remove grass and ground cover root system to a depth of 4 inches.

3.5 DEBRIS REMOVAL

- A. Removed material shall become the property of the Contractor. Contractor shall remove debris, rock, and extracted plant life from site and legally dispose.

3.6 TOP SOIL

- A. Strip topsoil from limits of grading areas, clean of grass, roots, rocks and debris to a depth of between 4" to 6", and stockpile for placement on all landscape and "open space" areas. Contractor shall investigate the site to his satisfaction to determine if suitable material is available on site to meet the specification for topsoil. Refer to Grading Section 312200.

3.7 EROSION CONTROL

- A. Provide erosion control measures necessary to maintain site. Protect against both wind and rainfall erosion.

END OF SECTION 311100

SECTION 312000

EARTH MOVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Excavating for buildings and structures.
2. Preparing subgrades for buildings and structures.
3. Backfilling for buildings and structures.
4. Excavating for walks and vehicular pavements, and for flexible porous pavement.
5. Preparing subgrades for walks and vehicular pavements, and for flexible porous pavement.
6. Subbase course for concrete walks & vehicular pavements, and for flexible porous pavement.
7. Preparing subgrades for turf and grasses.
8. Satisfactory fill course for turf and grasses.
9. Soil replacement at utility lines adjacent to or passing beneath structures (clay plug requirement).

1.2 DEFINITIONS

- A. Backfill: Soil material used to fill an excavation.
- B. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- C. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
- D. Fill: Soil materials used to raise existing grades.
- E. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- F. Subbase: Aggregate layer placed between the subgrade and a cement concrete vehicular pavement or a cement concrete walkway, or an aggregate layer placed between the subgrade and asphaltic base course for hot-mix asphalt pavement.
- G. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, or topsoil materials.

- H. Select Fill: Imported structural fill material consisting of clayey sand or sandy clay with a liquid limit less than 35 and a plasticity index between 5 and 16 according to ASTM D4318.
- I. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.
- J. Pre-excavation Conference: Conduct conference at project site.

1.3 PROJECT CONDITIONS

- A. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth moving operations.
- B. Do not commence earth moving operations until plant-protection measures are in place.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

A. Topsoil:

- 1. Strip topsoil from limits of grading areas, clean of grass, roots, rocks and debris to a depth of between 4" to 6", and stockpile for placement on all landscape and "open space" areas. Contractor shall investigate the site to his satisfaction to determine if suitable material is available on site to meet the specification for topsoil.
- 2. Imported topsoil shall be required for all fields a minimum depth of 4".
 - a. Contractor shall haul and place imported topsoil obtained from offsite sources to construct the topsoil layer and various other details of the construction drawings. All costs related to such imported topsoil fill will be included in the contract price, and no additional or separate payment for imported fill will be due the Contractor.
 - b. Topsoil shall be secured from an approved offsite location. It shall be fertile, friable, natural loam containing a liberal amount of humus and shall be capable of sustaining vigorous plant growth. It shall be free of stone lumps, clods of hard earth, plants or their roots, sticks, and other extraneous matter. Under no circumstances will topsoil be accepted unless it is free of the aforementioned contaminants. Contractor may use approved means of treating the topsoil to ensure its acceptability. Imported top-soil shall be rock free.
 - c. The soil texture shall be classified as sandy loam or loamy sand according to the "soil triangle" published by the United States Agriculture Department and the following criteria:
 - 1. Natural organic content: Not less than 1.5%.
 - 2. pH of Soil: Not more than 7.6.
 - 3. Soil texture shall be determined by utilizing processes as prescribed in ASTM D 422 using the No. 10 and No. 270 sieves and a hydrometer analysis.

3. **Unsuitable Materials:** Topsoil or unclassified fill will be declared as "unsuitable" if any of the following conditions or matter and particles are present to a degree that is judged detrimental to the proposed use of the material:
 - a. Moisture.
 - b. Decayed or undecayed vegetation.
 - c. Hardpan clay, heavy clay, or clay balls.
 - d. Rubbish.
 - e. Construction rubble.
 - f. Sand or gravel.
 - g. Rocks, cobbles, or boulders.
 - h. Cementitious matter.
 - i. Foreign matter of any kind.
4. Unsuitable materials shall be disposed of properly and legally as "waste".

2.2 ACCESSORY MATERIALS

- A. **Geotextile Filter Fabric:** Composite Fabric, woven, needle-punched polypropylene substrate bonded to a nonwoven polypropylene fabric, 4.8 oz./sq. yd..

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Establish extent of excavation by area and elevation; designate and identify datum elevation. B. Set required lines and grades using a licensed surveyor.
- C. Maintain benchmarks, monuments and other reference points.

3.2 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.
- B. Protect and maintain erosion and sedimentation controls during earth moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.
- D. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust. 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of trees.

- E. Before starting excavation, establish location and extent of underground utilities occurring in work area.
- F. Notify utility companies sufficiently in advance to remove and relocate lines which are in way of excavation.
- G. Maintain, reroute or extend as required, existing utility lines to remain which pass through work area.
- H. Protect and support utility services uncovered by excavation.
 - I. Remove abandoned utility service lines from areas of excavation; cap, plug or seal such lines and identify at grade.
 - J. Accurately locate and record abandoned, and active utility lines rerouted or extended on Project Record Documents.
 - K. Upon discovery of unknown utility or concealed condition, discontinue affected work and notify Landscape Architect.
 - L. Remove grass, weeds, roots and other vegetation from areas to be excavated, filled and graded.

3.3 EXCAVATION, GENERAL

- A. Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions. Remove topsoil, stockpile and identify this material so that it may be reinstalled as specified for topsoils.

3.4 EXCAVATION FOR WALKS AND VEHICULAR PAVEMENTS

- A. Excavate surfaces under walks and vehicular pavements, including asphaltic concrete paving, and under areas of flexible porous pavement to indicated lines, cross sections, elevations, and subgrades, and as follows:
 1. Remove all existing pavements, surface vegetation, trees and associated root mats, organic topsoil and any other deleterious material.
 2. At concrete walks and pavements, excavate surface clays or fill with on-site or imported material to a minimum of 1-foot below 6-inch paving design grades, 11-inches below 5-inch paving design grades, or to the depth below the design grade which removes topsoil and exposes the clay subgrade, whichever is the greater depth of excavation. Scarify the exposed clay subgrade, at the base of the excavation, to a depth of 6 inches, adjust the moisture to -2 to +4 percentage points above optimum moisture and compact to a minimum 95 percent of Standard Proctor density (ASTM D 698). This will prepare the excavation for subbase installation.
 3. Extend excavation out 1-foot beyond edge of paving.

3.5 SUBGRADE INSPECTION

- A. Proof-roll subgrade below structures and pavements with pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
- B. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Architect, without additional compensation.
- C. Maintain subgrade in a moist condition until pavement is placed.

3.6 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Architect.
 1. Fill unauthorized excavations under other construction using satisfactory fills.

3.7 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations as follows:
 1. Under building slabs, use select fill
 2. Under footings and foundations, use select fill.
 3. Under walks and pavements, use soil fills beneath the specified depth of subbase material.
 4. Under steps and ramps, use soil fills beneath the specified depth of subbase material.
 5. Under grass and planted areas and under soil playing surfaces, use on-site or imported soil material.

3.8 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within optimum moisture limits indicated for each condition.
 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
 2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content range and is too wet to compact to specified dry unit weight.

3.9 INSTALLATION AND COMPACTION OF SOIL FILLS FOR USE BENEATH PAVEMENTS AND WALKS

- A. Where pavement subgrade must be raised place fill soil materials in layers not more than 9 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
- B. Place fill soil materials evenly to required elevations, and uniformly along the full length and width of paved areas.
- C. Compact soil materials of type described following and to not less than the following percentages of maximum dry unit weight and optimum moisture range:
- D. Fill using borrow fill found on-site, unsatisfactory imported soils if of same soil class as on-site borrow fill, imported satisfactory soil fill, or other soil if approved by the Owner. Compact in maximum 9-inch loose lifts at a minimum of three percentage points above optimum moisture to between 93 and 98 percent of Standard Proctor density (ASTM D 698). Over-compaction is not allowed. Extend fills to the underside elevation of the specified subbase.

1. INSTALLATION AND COMPACTION OF SUBBASE UNDER WALKS

- a. Walkway Pavements which are placed adjacent to or in proximity to structures (within 30-feet of structures): Following scarification and recompaction of existing or filled subgrade, install subbase course to underside elevation of designated pavement section. Install subbase course in 9-inch maximum loose lifts at -2 to +3 percentage points of the material's optimum moisture content and compact to a minimum of 95 percent of Standard Proctor density (ASTM D-698). A minimum 6-inch subbase course is required.
- b. Walkway Pavements which are placed elsewhere on the site in areas which are not adjacent to or in proximity to structures: Following scarification and recompaction of existing subgrade, install subbase or satisfactory soils course to underside elevation of designated pavement section. Install subbase or satisfactory soils course in 9-inch maximum loose lifts at -2 to +3 percentage points of the material's optimum moisture content and compact to a minimum of 95 percent of Standard Proctor density (ASTM D-698). A minimum 6-inch subbase or satisfactory soils course is required.

2. GRADING

- a. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
- b. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
 - i. Turf or Unpaved Areas: Plus or minus 1 inch.
 - ii. Walks: Plus or minus 1 inch.
 - iii. Pavements: Plus or minus 1/2 inch.

- c. Grading inside Building Lines: Finish subgrade to a tolerance of 1/2 inch when tested with a 10-foot straightedge.

3. FINISH GRADING

- a. Site Grading: Shape and finish earthwork to bring the site to the finish grades and elevations shown on the drawings.
 1. Finish grade to the finish contours and spot grades shown. Extend cuts and fills to feather out beyond the last finish contour or spot grade shown. Grade to uniform levels and slopes between points for which elevations are given, round off abrupt changes in elevation, and finish off smoothly. Finish grades shall slope to assure proper drainage.
 2. The final grading of the field will be accomplished with a small light weight type tractor equipped with turf tires and laser equipment. (Motor graders not allowed for final grading).
 3. Laser to be either conical or dual slope laser depending on the grading plan with the capability of achieving an accuracy of 1/8 of an inch in 100 feet.
 4. The finished grade should be true to plane and grade within 1/4 of an inch when checked with a 20 foot straight edge.
 5. Finish grade shall be properly compacted, dragged and ready for sod then be inspected by the landscape architect before the grassing operation. It is the intent of these specs to have a smooth surface without any bumps or undulations, that drains as designed.
 6. All area's where grass meets other materials will be graded to allow for the thickness of the sod. Grading, infield materials, warning tracks, and sod installation will be the responsibility of the same contractor to insure a smooth transition from one material to the next.
 7. Execute erosion control measures in accordance with the local ordinances.
- b. Grading Around Trees: Where grading is required within the branch spread of trees that are to remain, perform the work as follows:
 1. When trenching occurs, the tree roots shall not be cut but the trench shall be tunneled under or around the roots by hand digging.
 2. When the existing grade at a tree is below the new finished grade, and fill not exceeding 6" is required, clean washed gravel graded from 1" to 2" size shall be placed directly around the tree trunk. The gravel shall extend out from trunk on all sides a minimum of 18" and finish approximately 2" above the finished grade at the tree. Install gravel before earth fill is placed.
 3. Trees in areas where the new finished grade is to be lowered shall have re-grading work done by hand to elevation as indicated. Existing grades immediately surrounding the trunk shall not be altered except at the direction of the Architect.

4. FIELD QUALITY CONTROL

- a. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- b. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
- c. Paving Subgrades: At paving subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Agency will provide testing at each lift at area intervals no greater than 5,000 sf.
- d. Turf and Grasses Subgrades: At these subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Agency will provide testing at each lift at area intervals no greater than 20,000 sf.
- e. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

5. PROTECTION

- a. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- b. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
- c. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

6. DISPOSAL OF SURPLUS AND WASTE MATERIALS

- a. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property. This includes on-site stockpiles provided by the City of Tyler.

END OF SECTION 312000

SECTION 312500
EROSION AND SEDIMENT CONTROL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Implementation of the project's Storm Water Pollution Prevention Plan (SWPPP) and installation, maintenance and removal of erosion and sediment control devices
- B. Deviations from this City of Fort Worth Standard Specification
 - 1. None.
- C. Related Specification Sections include, but are not necessarily limited to:
 - 1. Division 0 – Bidding Requirements, Contract Forms and Conditions of the Contract
 - 2. Division 1 – General Requirements

1.2 SUBMITTALS

- A. Storm Water Pollution Prevention Plan (SWPPP)
- B. TCEQ Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity under the TPDES General Permit
- C. Construction Site Notice
- D. TCEQ Notice of Termination (NOT) for Storm Water Discharges Associated with Construction Activity under the TPDES General Permit
- E. Notice of Change (if applicable)

PART 2 - PRODUCTS

2.1 PRODUCT TYPES AND MATERIALS

- A. Rock Filter Dams
 - 1. Aggregate
 - a. Furnish aggregate with hardness, durability, cleanliness and resistance to crumbling, flaking and eroding acceptable to the Engineer.
 - b. Provide the following:
 - 1) Types 1, 2 and 4 Rock Filter Dams
 - a) Use 3 to 6 inch aggregate.

2) Type 3 Rock Filter Dams

- a) Use 4 to 8 inch aggregate.

2. Wire

- a. Provide minimum 20 gauge galvanized wire for the steel wire mesh and tie wires for Types 2 and 3 rock filter dams

b. Type 4 dams require:

- 1) Double-twisted, hexagonal weave with a nominal mesh opening of 2½ inches x 3 ¼ inches
- 2) Minimum 0.0866 inch steel wire for netting
- 3) Minimum 0.1063 inch steel wire for selvages and corners
- 4) Minimum 0.0866 inch for binding or tie wire

B. Geotextile Fabric

1. Place the aggregate over geotextile fabric meeting the following criteria:

- a. Tensile Strength of 250 pounds, per ASTM D4632
- b. Puncture Strength of 135 pounds, per ASTM D4833
- c. Mullen Burst Rate of 420 psi, per ASTM D3786
- d. Apparent Opening Size of No. 20 (max), per ASTM D4751

C. Stabilized Construction Entrances

1. Provide materials that meet the details shown on the Drawings and this Section.

- a. Provide crushed aggregate for long and short-term construction exits.
- b. Furnish aggregates that are clean, hard, durable and free from adherent coatings such as salt, alkali, dirt, clay, loam, shale, soft or flaky materials and organic and injurious matter.
- c. Use 3 to 5 inch coarse aggregate with a minimum thickness of 12 inches.
- d. The aggregate shall be placed over a geotextile fabric meeting the following criteria:
 - 1) Tensile Strength of 300 pounds, per ASTM D4632
 - 2) Puncture Strength of 120 pounds, per ASTM D4833
 - 3) Mullen Burst Rate of 600 psi, per ASTM D3786
 - 4) Apparent Opening Size of No. 40 (max), per ASTM D4751

D. Embankment for Erosion Control

1. Provide rock, loam, clay, topsoil or other earth materials that will form a stable embankment to meet the intended use.

E. Temporary Sediment Control Fence

1. Provide a net-reinforced fence using woven geo-textile fabric.
2. Logos visible to the traveling public will not be allowed.
 - a. Fabric
 - 1) Provide fabric materials in accordance with DMS-6230, "Temporary Sediment Control Fence Fabric."
 - b. Posts
 - 1) Provide essentially straight wood or steel posts with a minimum length of 48 inches, unless otherwise shown on the Drawings.
 - 2) Soft wood posts must be at least 3 inches in diameter or nominal 2 x 4 inch
 - 3) Hardwood posts must have a minimum cross-section of 1-1/2 x 1-1/2 inch
 - 4) T- or L-shaped steel posts must have a minimum weight of 1.3 pounds per foot.
 - c. Net Reinforcement
 - 1) Provide net reinforcement of at least 12-1/2 gauge galvanized welded wire mesh, with a maximum opening size of 2 x 4 inch, at least 24 inches wide, unless otherwise shown on the Drawings.
 - d. Staples
 - 1) Provide staples with a crown at least 3/4 inch wide and legs 1/2 inch long.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Storm Water Pollution Prevention Plan

1. Develop and implement the project's Storm Water Pollution Prevention Plan (SWPPP) in accordance with the TPDES Construction General Permit TXR150000 requirements. Prevent water pollution from storm water runoff by using and maintaining appropriate structural and nonstructural BMPs to reduce pollutants discharges to the MS4 from the construction site.

B. Control Measures

1. Implement control measures in the area to be disturbed before beginning construction, or as directed. Limit the disturbance to the area shown on the Drawings or as directed.
2. Control site waste such as discarded building materials, concrete truck washout water, chemicals, litter and sanitary waste at the construction site.
3. If, in the opinion of the Engineer, the Contractor cannot control soil erosion and sedimentation resulting from construction operations, the Engineer will limit the disturbed area to that which the Contractor is able to control. Minimize disturbance to vegetation.
4. Immediately correct ineffective control measures. Implement additional controls as directed. Remove excavated material within the time requirements specified in the applicable storm water permit.
5. Upon acceptance of vegetative cover by the City, remove and dispose of all temporary control measures, temporary embankments, bridges, matting, falsework, piling, debris, or other obstructions placed during construction that are not a part of the finished work, or as directed.

C. Do not locate disposal areas, stockpiles, or haul roads in any wetland, water body, or streambed.

D. Do not install temporary construction crossings in or across any water body without the prior approval of the appropriate resource agency and the Engineer.

E. Provide protected storage area for paints, chemicals, solvents, and fertilizers at an approved location. Keep paints, chemicals, solvents, and fertilizers off bare ground and provide shelter for stored chemicals.

F. Installation and Maintenance

1. Perform work in accordance with the TPDES Construction General Permit TXR150000.
2. When approved, sediments may be disposed of within embankments, or in areas where the material will not contribute to further siltation.
3. Dispose of removed material in accordance with federal, state, and local regulations.
4. Remove devices upon approval or when directed.
 - a. Upon removal, finish-grade and dress the area.
 - b. Stabilize disturbed areas in accordance with the permit, and as shown on the Drawings or directed.
5. The Contractor retains ownership of stockpiled material and must remove it from the project when new installations or replacements are no longer required.

G. Rock Filter Dams for Erosion Control

1. Remove trees, brush, stumps and other objectionable material that may interfere with the construction of rock filter dams.
2. Place sandbags as a foundation when required or at the Contractor's option.
3. For Types 1, 2, 3, and 5, place the aggregate to the lines, height, and slopes specified, without undue voids.
4. For Types 2 and 3, place the aggregate on the mesh and then fold the mesh at the upstream side over the aggregate and secure it to itself on the downstream side with wire ties, or hog rings, or as directed.
5. Place rock filter dams perpendicular to the flow of the stream or channel unless otherwise directed.
6. Construct filter dams according to the following criteria, unless otherwise shown on the Drawings:
 - a. Type 5
 - 1) Provide rock filter dams as shown on the Drawings.

H. Construction Entrances

1. When tracking conditions exist, prevent traffic from crossing or exiting the construction site or moving directly onto a public roadway, alley, sidewalk, parking area, or other right of way areas other than at the location of construction entrances.
2. Place the exit over a foundation course, if necessary.
 - a. Grade the foundation course or compacted subgrade to direct runoff from the construction exits to a sediment trap as shown on the Drawings or as directed.
3. At drive approaches, make sure the construction entrance is the full width of the drive and meets the length shown on the Drawings.
 - a. The width shall be at least 14 feet for 1-way and 24 feet for 2-way traffic for all other points of ingress or egress or as directed by the Engineer.

I. Earthwork for Erosion Control

1. Perform excavation and embankment operations to minimize erosion and to remove collected sediments from other erosion control devices.

Excavation and Embankment for Erosion Control Measures

- 1) Place earth dikes, swales or combinations of both along the low crown of daily lift placement, or as directed, to prevent runoff spillover.
- 2) Construct cuts with the low end blocked with undisturbed earth to prevent erosion of hillsides.

- 3) Construct sediment traps at drainage structures in conjunction with other erosion control measures as shown on the Drawings or as directed.

b. Excavation of Sediment and Debris

- 1) Remove sediment and debris when accumulation affects the performance of the devices, after a rain, and when directed.

J. Temporary Sediment-Control Fence

1. Provide temporary sediment-control fence near the downstream perimeter of a disturbed area to intercept sediment from sheet flow.
2. Incorporate the fence into erosion-control measures used to control sediment in areas of higher flow. Install the fence as shown on the Drawings, as specified in this Section, or as directed.

a. Post Installation

- 1) Embed posts at least 18 inches deep, or adequately anchor, if in rock, with a spacing of 6 to 8 feet and install on a slight angle toward the run-off source.

b. Fabric Anchoring

- 1) Dig trenches along the uphill side of the fence to anchor 6 to 8 inches of fabric.
- 2) Provide a minimum trench cross-section of 6 x 6 inches
- 3) Place the fabric against the side of the trench and align approximately 2 inches of fabric along the bottom in the upstream direction.
- 4) Backfill the trench, then hand-tamp.

c. Fabric and Net Reinforcement Attachment

- 1) Unless otherwise shown under the Drawings, attach the reinforcement to wooden posts with staples, or to steel posts with T-clips, in at least 4 places equally spaced.
- 2) Sewn vertical pockets may be used to attach reinforcement to end posts.
- 3) Fasten the fabric to the top strand of reinforcement by hog rings or cord every 15 inches or less.

d. Fabric and Net Splices

- 1) Locate splices at a fence post with a minimum lap of 6 inches attached in at least 6 places equally spaced, unless otherwise shown under the Drawings.
 - a) Do not locate splices in concentrated flow areas.

- 2) Requirements for installation of used temporary sediment-control fence include the following:
 - a) Fabric with minimal or no visible signs of biodegradation (weak fibers)
 - b) Fabric without excessive patching (more than 1 patch every 15 to 20 feet)
 - c) Posts without bends
 - d) Backing without holes

3.2 CLEANING

A. Waste Management

1. Remove sediment, debris and litter as needed.

3.3 CLOSEOUT ACTIVITIES

- A. Erosion control measures remain in place and are maintained until all soil disturbing activities at the project site have been completed.
- B. Establish a uniform vegetative cover with a density of 70 percent on all unpaved areas, on areas not covered by permanent structures, or in areas where permanent erosion control measures (i.e. riprap, gabions, or geotextiles) have been employed.

3.4 MAINTENANCE

- A. Install and maintain the integrity of temporary erosion and sedimentation control devices to accumulate silt and debris until earthwork construction and permanent erosion control features are in place or the disturbed area has been adequately stabilized as determined by the Engineer.
- B. If a device ceases to function as intended, repair or replace the device or portions thereof as necessary.
- C. Perform inspections of the construction site as prescribed in the Construction General Permit TXR150000.
- D. Records of inspections and modifications based on the results of inspections must be maintained and available in accordance with the permit.

END OF SECTION 312500

SECTION 321313
CONCRETE PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes Concrete Paving. Including the Following:

1. Driveways.
2. Roadways.
3. Parking lots.
4. Curbs and gutters.
5. Walks.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each type of product, ingredient, or admixture requiring color selection.
- C. Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

1.3 QUALITY ASSURANCE

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
 1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities" (Quality Control Manual - Section 3, "Plant Certification Checklist").

1.4 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Engage a qualified independent testing agency to perform preconstruction testing on concrete paving mixtures.

PART 2 - PRODUCTS

2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 unless otherwise indicated.

2.2 STEEL REINFORCEMENT

- A. Plain-Steel Welded-Wire Reinforcement: ASTM A 1064/A 1064M, fabricated from as-drawn steel wire into flat sheets.
- B. Deformed-Steel Welded-Wire Reinforcement: ASTM A 1064/A 1064M, flat sheet.
- C. Reinforcing Bars: ASTM A 615/A 615M, Grade 60; deformed.
- D. Joint Dowel Bars: ASTM A 615/A 615M, Grade 60 plain-steel bars; zinc coated (galvanized) after fabrication according to ASTM A 767/A 767M, Class I coating. Cut bars true to length with ends square and free of burrs.
- E. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded-wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete specified.

2.3 CONCRETE MATERIALS

- A. Cementitious Materials: Use the following cementitious materials, of same type, brand, and source throughout Project:
 - 1. Portland Cement: ASTM C 150/C 150M, gray portland cement Type I.
 - 2. Fly Ash: ASTM C 618, Class C or Class F.
 - 3. Slag Cement: ASTM C 989/C 989M, Grade 100 or 120.
- B. Normal-Weight Aggregates: ASTM C 33/C 33M, Class 4S, uniformly graded. Provide aggregates from a single source.
- C. Air-Entraining Admixture: ASTM C 260/C 260M.
- D. Chemical Admixtures: Admixtures certified by manufacturer to be compatible with other admixtures and to contain not more than 0.1 percent water-soluble chloride ions by mass of cementitious material.
- E. Color Pigment: ASTM C 979/C 979M, synthetic mineral-oxide pigments or colored water-reducing admixtures; color stable, nonfading, and resistant to lime and other alkalis.
 - 1. Color: As selected by Architect from manufacturer's full range.
- F. Water: Potable and complying with ASTM C 94/C 94M.

2.4 CURING MATERIALS

- A. Absorptive Cover: AASHTO M 182, Class 3, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry.
- B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- C. Water: Potable.
- D. Evaporation Retarder: Waterborne, monomolecular, film forming, manufactured for application to fresh concrete.

- E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.
- F. White, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 2, Class B, dissipating.

2.5 RELATED MATERIALS

- A. Joint Fillers: ASTM D 1751, asphalt-saturated cellulosic fiber in preformed strips.
- B. Slip-Resistive Aggregate Finish: Factory-graded, packaged, rustproof, no glazing, abrasive aggregate of fused aluminum-oxide granules or crushed emery aggregate containing not less than 50 percent aluminum oxide and not less than 20 percent ferric oxide; unaffected by freezing, moisture, and cleaning materials.

2.6 CONCRETE MIXTURES

- A. Prepare design mixtures, proportioned according to ACI 301, for each type and strength of normal-weight concrete, and as determined by either laboratory trial mixtures or field experience.
 - 1. Air Content: 4-1/2 percent plus or minus 1-1/2 percent.
- B. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.
- C. Color Pigment: Add color pigment to concrete mixture according to manufacturer's written instructions and to result in hardened concrete color consistent with approved mockup.
- D. Concrete Mixtures: Normal-weight concrete.
 - 1. Compressive Strength (28 Days): 3000 psi.
 - 2. Maximum W/C Ratio at Point of Placement: 0.45.
 - 3. Slump Limit: 4 inches, plus or minus 1 inch.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.

3.2 PREPARATION

- A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.3 EDGE FORMS AND SCREED CONSTRUCTION

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.
- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.4 STEEL REINFORCEMENT INSTALLATION

- A. Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

3.5 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, to match jointing of existing adjacent concrete paving.
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

3.6 CONCRETE PLACEMENT

- A. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.
- B. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.
- C. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- D. Screeed paving surface with a straightedge and strike off.
- E. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleedwater appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

3.7 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleedwater sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.
 - 1. Medium-to-Fine-Textured Broom Finish: Draw a soft-bristle broom across float-finished concrete surface, perpendicular to line of traffic, to provide a uniform, fine-line texture.
- C. Slip-Resistive Aggregate Finish: Before final floating, spread slip-resistive aggregate finish on paving surface according to manufacturer's written instructions.
 - 1. Cure concrete with curing compound recommended by slip-resistive aggregate manufacturer. Apply curing compound immediately after final finishing.
 - 2. After curing, lightly work surface with a steel-wire brush or abrasive stone and water to expose nonslip aggregate.

3.8 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by moisture curing.

3.9 PAVING TOLERANCES

- A. Comply with tolerances in ACI 117 and as follows:
 - 1. Elevation: 3/4 inch.
 - 2. Thickness: Plus 3/8 inch, minus 1/4 inch.
 - 3. Surface: Gap below 10-feet-long; unleveled straightedge not to exceed 1/2 inch.
 - 4. Joint Spacing: 3 inches.
 - 5. Contraction Joint Depth: Plus 1/4 inch, no minus.
 - 6. Joint Width: Plus 1/8 inch, no minus.

3.10 REPAIR AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Architect.
- B. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- C. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 321313

SECTION 321373
CONCRETE PAVING JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Cold-applied joint sealants.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each kind and color of joint sealant required.

1.3 INFORMATIONAL SUBMITTALS

- A. Product certificates.
- B. Product test reports.

1.4 QUALITY ASSURANCE

- A. Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

2.2 COLD-APPLIED JOINT SEALANTS

- A. Single-Component, Self-Leveling, Silicone Joint Sealant: ASTM D 5893/D 5893M, Type SL.
 - 1. Products: Subject to compliance with requirements, available products may be incorporated into the Work include, but are not limited to, the following:
 - a. Crafco Inc., an ERGON Company, RoadSaver Silicone SL
 - b. Dow Corning Corporation: 890-SL

c. Pecora Corporation: 300 SL

PART 3 - EXECUTION

3.1 INSTALLATION OF JOINT SEALANTS

- A. Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated unless more stringent requirements apply.
- B. Cleaning of Joints: Clean out joints immediately to comply with joint-sealant manufacturer's written instructions.
- C. Joint-Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions.
- D. Install joint-sealant backings to support joint sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 - 1. Do not leave gaps between ends of joint-sealant backings.
 - 2. Do not stretch, twist, puncture, or tear joint-sealant backings.
 - 3. Remove absorbent joint-sealant backings that have become wet before sealant application and replace them with dry materials.
- E. Install joint sealants immediately following backing installation, using proven techniques that comply with the following:
 - 1. Place joint sealants so they fully contact joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- F. Provide joint configuration to comply with joint-sealant manufacturer's written instructions unless otherwise indicated.
- G. Clean off excess joint sealant as the Work progresses, by methods and with cleaning materials approved in writing by joint-sealant manufacturers.

END OF SECTION 321373

SECTION 321723

PAVEMENT MARKINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes painted markings applied to concrete pavement.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Benjamin Moore & Co.
- B. Sherwin-Williams Company
- C. Approved Similar

2.2 PAVEMENT-MARKING PAINT

- A. Pavement-Marking Paint: MPI #97, latex traffic-marking paint.
 - 1. Color: White, Yellow, Blue.

PART 3 - EXECUTION

3.1 PAVEMENT MARKING

- A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Architect.
- B. Allow paving to age for a minimum of 30 days before starting pavement marking.

- C. Sweep and clean surface to eliminate loose material and dust.
- D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils.
 - 1. Apply graphic symbols and lettering with paint-resistant, die-cut stencils. Apply paint so that it cannot run beneath the stencil.

END OF SECTION 321723

SECTION 323300
SITE FURNISHINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Related Sections include the following:
 1. Section 312000: "Earth Moving"
 2. Section 321313: "Concrete Paving"

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, finishes, field-assembly requirements, and installation details.
- B. Product Schedule: For site furnishings. Use same designations indicated on Drawings.
- C. Maintenance Data: For site and street furnishings to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of site furnishing through one source from a single manufacturer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Reference plans for approved manufacturers:

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Comply with manufacturer's written installation instructions, unless more stringent requirements are indicated. Complete field assembly of site and street furnishings, where required.
- B. Unless otherwise indicated, install site and street furnishings after landscaping and paving have been completed.
- C. Install site and street furnishings level, plumb, true, and securely anchored and positioned at locations indicated on Drawings.

3.3 CLEANING

- A. After completing site and street furnishing installation, inspect components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.

END OF SECTION 323300

SECTION 329300
HYDRAULIC SEEDING

PART 1 - GENERAL

1.1 SECTION INCLUDES:

- A. Remove stones, sticks, roots and other debris from finish graded areas to receive turf; soil preparation, fertilization, and hydraulic seeding of areas designated for hydraulic seeding or hydro mulching as shown on Drawings.
- B. Establishment of temporary erosion control grass.

1.2 DEFINITIONS

- A. Stand of Grass, Permanent: 160 growing common bermuda grass plants per square inch, to be established within two weeks of planting date, on a smooth bed free of foreign material, weeds, and rocks.
- B. Stand of Grass, Temporary: Complete coverage of the non-vegetated areas of the site at the beginning of the construction period. The temporary grass shall be maintained to a level of growth to establish and maintain erosion control.
- C. Provisional Acceptance: Approval of Hydraulic Seeding as being in conformance with these Specifications upon completion of the installation.
- D. Final Acceptance: Approval of the establishment of a "Stand of Grass" as defined herein, and the assumption of turf maintenance by the City of Tyler.

1.3 SUBMITTALS

- A. Test Reports: Results of seed purity and germination tests.
- B. Certificates: Manufacturer's certification that seed and mulch meet specification requirements.
- C. File all results and certificates with Owner prior to final acceptance.
- D. Maintenance Instructions: Submit to Owner prior to final acceptance.
- E. Test Reports: Submit certification of fertilizer analysis.

1.4 QUALITY ASSURANCE

- A. Meet requirements of Official Method of Analysis of the Association of Official Analytical Chemists.
- B. Source Quality Control: Producer's test for purity and germination of seed, dated within nine months of sowing and submit to Owner.

1.5 JOB CONDITIONS

- A. Environmental Requirements:

1. In the event establishment of Common Bermuda is delayed beyond September 15, contractor shall plant annual rye grass seed at 40 lb/acre (September 16-January 1). Contractor shall come back in April (following year) to chemically and thoroughly "kill off" the annual rye grass and plant permanent Common Bermuda grass seed at the specified rate. Prior to final seeding, the contractor shall regrade, rake, clean, topsoil as need to provide the specified prepared surface. Contractor shall water, mow and otherwise fully maintain temporary grass and final seeding until specified permanent grass attains a full stand.
2. Do not seed when excessively wet or dry.
3. Do not perform seeding or hydromulching when wind exceeds 15 mph.

B. Do not begin hydraulic seeding operations until the permanent and temporary irrigation systems have been demonstrated to be operable and reliable.

C. Protection: Restrict foot and vehicular traffic from seeded areas after planting and hydromulching until final inspection and acceptance.

1.6 ESTABLISHMENT AND MAINTENANCE

A. Provisional Acceptance: Upon completion of Hydraulic Seeding operation, obtain written approval of the installation from the Landscape Architect.

B. Establishment Period: Establish a stand of grass, as defined herein, in 90 days or less.

C. Maintenance:

1. Maintain new seeding until all turf areas are accepted by Owner.
2. Reseed during this period as required to meet minimum standards at no additional expense to Owner.
3. Repair damage to other plants or lawns during maintenance period at no additional expense to Owner.
4. Maintenance shall consist of but not be limited to:
 - a. Weeding.
 - b. Watering.
 - c. Mowing and edging.
 - d. Spraying.
 - e. Fertilizing.
5. Temporary Erosion Control & Erosion Repair.

D. Final Acceptance will be provided by Owner only upon establishment of a uniform stand of permanent grass throughout the entire site. Upon Final Acceptance of the turf, Owner will assume turf maintenance operations.

1.7 RESTORATION

- A. Repair damage done to existing site improvements caused by Contractor.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Seed - Permanent Grass:

1. Species: Hulled Common Bermuda Grass (*Cynodon dactylon*) of 98 percent purity.
2. Percent of Live Seed: 85 percent
3. Clean, dry, new crop seed.
4. Free of all weeds.

- B. Seed - Temporary Grass:

1. Species: Annual Ryegrass (*Lolium multiflorum*) of 95% percent purity.
2. Percent of Live Seed: 85 percent.
3. Clean, dry, new crop seed.
4. Free of all weeds

- C. Fertilizer:

1. Pelletized.
2. Containing following minimum percentage of plant food by weight:
 - a. Nitrogen (N): 20 percent.
 - b. Phosphoric Acid (P2O5): 20 percent.
 - c. Potash (K2O): 8 percent
 - d. Magnesium (Mg): 5 percent.
3. A minimum of 25 percent of the total Nitrogen shall be derived from Sulphur coated urea: 45 percent from urea, and the remaining 30 percent from monammonium phosphate.
4. The fertilizer shall be delivered to the site in bags or other convenient containers, each fully labeled, conforming to the applicable state fertilizer laws, and bearing the name, trade name or trademark, and warranty of the producer.
5. Fertilizer to be used in any stage of seeding shall not be used until the delivery of fertilizer is verified by the Owner and that sufficient quantities have been delivered.

- D. Mulch:

1. Maximum Moisture Content: 12 percent plus 3 percent, VTM-47

2. Cellulose Fiber Content: 98.6 percent plus 2 percent, ASTM D-586
3. Ash Content: 1.6 percent maximum, ASTM D-586
4. PH: 6.5 plus 1.
5. Minimum Water Holding Capacity: 90 percent minimum, VTM-46
6. Mulch shall be dyed green with a biodegradable dye that does not inhibit plant growth.
7. Wood fiber mulch shall be packaged in units not exceeding 100 lbs. The package shall contain current labels, manufacturer's name and net weight.

E. Tackifier: Terra Tack AR or Terra Tack II as manufactured by Grass Growers, 424 Cottage Place, Plainfield, New Jersey, 02060.

F. Water: Potable, available on-site. Contractor shall furnish temporary hoses and connections as required

PART 3 - EXECUTION

3.1 INSPECTION

- A. Contractor shall check that preceding work affecting ground surface is completed.
- B. Contractor shall verify that soil is within allowable range of moisture content.
- C. Contractor shall see that the soil is free of weeds and foreign material immediately before seeding. Remove rocks and stones which are larger than 1 inch in diameter and remove from the site.
- D. Contractor shall not start work until conditions are satisfactory. To begin work indicates acceptance of conditions.

3.2 PREPARATION

- A. All areas to be seeded are to be bladed and graded smooth. All clods shall be removed or incorporated into existing soil and all debris shall be disposed of off the site.
- B. Soil should be watered to a minimum depth of 4 inches at least 48 hours prior to seeding.

3.3 FERTILIZER

- A. Apply fertilizer twice. The first application shall be performed in a north-south direction. The second application shall be performed in a east-west direction. Both fertilizer applications shall be performed at a rate of 560 lbs. per acre.
- B. Disc the first fertilizer application into the soil to a depth of 2 inches to 4 inches.
- C. The second fertilizer application shall be performed concurrently with hydraulic seeding and shall be a surface application.

3.4 HYDRAULIC SEEDING

- A. Apply hydraulic seeding materials with an approved spray applicator equipment suitable for the seed, mulch and stabilizer specified.
- B. Apply seed at the prescribed rate first. The fiber-tackifier application shall be made separately after seeding is accomplished.
- C. Apply materials at the following rates:
 - 1. Mulch with Tackifier 1,600 pounds per acre (36.75 pounds per 1000 square feet).
 - 2. Hulled Common Bermuda Grass: 130 pounds per acre (3 pounds per 1000 square feet).
 - 3. Annual Ryegrass: 350 pounds per acre (8 pounds per 1000 square feet.)
 - 4. Tackifier: as specified by manufacturer.
- D. Water all hydroseeded areas to a minimum depth of 4 inches.
- E. Areas that are not covered by green dyed mulch will be re-seeded at no extra cost to the Owner.

3.5 PROTECTION

- A. Immediately after seeding and hydromulching, erect barricades as directed by owner and warning signs as required to protect seeded areas from traffic until grass is established. Barricade to be provided by Owner.

3.6 SEED ESTABLISHMENT

- A. Watering:
 - 1. Keep soil moist during seed germination period.
 - 2. Supplement rainfall as required until a stand of grass is established.
- B. Mowing:
 - 1. When grass reaches 3 inches in height, mow to 2-1/2 inches in height. Continue mowing operation until Final Acceptance of the turf by Owner.
 - 2. Do not cut off more than 30 percent of grass leaf in single mowing.
 - 3. Do not remove grass clippings.
- C. Reseed all bare spots not having a uniform stand of grass at no additional expense to Owner.
- D. Turf will not be accepted until all areas are in compliance with these Specifications.
- E. Contractor is responsible for removal and replacement of temporary turf grass with establishment of a permanent stand of turf grass.

3.7 CLEANING

- A. Remove trash and excess materials from project site.
- B. Maintain paved areas in clean condition.
- C. Remove barriers and signs from site at termination of establishment period.

END OF SECTION 329300