

Bidding Requirements, Contract Forms and Conditions of the Contract
ADDENDUM
Section 00900

ADDENDUM No. 2

Date: February 2, 2015

City of Austin

Project Name: 3rd Street Reconstruction Phase 4 – Guadalupe St. to Nueces St.

C.I.P. No.: 8158.004

This Addendum forms a part of Contract and clarifies, corrects or modifies original Bid Documents, dated December 29, 2014. Acknowledge receipt of this addendum in space provided on bid form. Failure to do so may subject bidder to disqualification.

A. Project Manual Revisions:

1. Replace Section 00020 in its entirety with the attached Section 00020
2. Replace the Bid Item Table attachment in Section 00300U in its entirety with the attached Bid Item Table.
3. Replace Section 01020 in its entirety with the attached Section 01020.
4. Replace Special Specification SS329000 in its entirety with the attached Special Specification SS329000.

B. Drawing Revisions:

None

This addendum consists of 16 page(s) / 0 sheet(s).



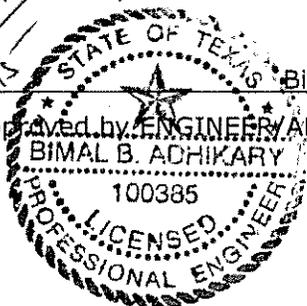
Randy Harvey

Approved by OWNER



Bimal Adhikary, P.E.

Approved by ENGINEER/ARCHITECT



END

Bidding Requirements, Contract Forms and Conditions of the Contract
INVITATION FOR BIDS
Section 00020

Following is a summary of information for this Project. Bidder is cautioned to refer to other sections of the Project Manual, Drawings and Addenda (Bid Documents) for further details.

The City of Austin, hereafter called OWNER, is requesting sealed written Bids for furnishing all labor, materials, equipment, supervision, and incidentals, and for performing all Work required for the following Project:

3rd Street Reconstruction Phase 4 - Guadalupe St. to Nueces Street

Located at: West 3rd Street, Austin Texas

CIP ID# 8158.004

IFB# 6100 CLMC522

The Work consists of full depth street reconstruction of West 3rd Street from Guadalupe St. to Nueces St. including typical Great Streets pedestrian improvements, utility adjustments, and installation of the Lance Armstrong Bikeway.

Bid Documents may be obtained at One Texas Center, 505 Barton Springs Road, Ste. 1045 (Front Desk), Austin, TX 78704. Copies will be available in CD format at no cost.

At the time Bid Documents are obtained, Bidder must provide a working e-mail address, so that they will receive any addenda or clarification issued by the Owner.

Sealed Bids will be received at the Contract Management Department, 105 W. Riverside Dr., Suite 210, Austin, Texas 78704 and then publicly opened and read aloud in the **SUITE 210 Conference Room**.

ALL BIDS ARE DUE PRIOR TO (Austin time) February 12, 2015, 10:30 AM.

ALL COMPLIANCE PLANS ARE DUE PRIOR TO (Austin time) February 12, 2015, 2:30 PM.

BIDS WILL BE OPENED AT (Austin time) February 12, 2015, 2:30 PM.

ALL BIDS AND COMPLIANCE PLANS NOT RECEIVED PRIOR TO THE DATE AND TIME SET FORTH ABOVE WILL NOT BE ACCEPTED FOR CONSIDERATION. The time stamp clock in **SUITE 210** is the time of record and is verified with www.time.gov, the official U.S. time.

All CONTRACTORS must be registered to do business with OWNER prior to submission of a Bid. All Subcontractors must be registered with the OWNER prior to execution of a contract. Prime Contractors are responsible for ensuring that their Subcontractors are registered as vendors with the City of Austin. Registration can be done through the OWNER's on-line Vendor Registration system. Log onto <https://www.ci.austin.tx.us/vss/Advantage> and follow the directions.

All City procurements are subject to the City's Minority-Owned and Women-Owned Business Enterprise Procurement Program found at Chapter 2-9-A of the City Code, as amended. The Program provides Minority-Owned and Women-Owned Business Enterprises (MBEs/WBEs) or Disadvantaged Business Enterprises (DBEs) full opportunity to participate in all City contracts. Goals for MBE/WBE or DBE participation are stated for each solicitation. Information on achieving the goals or documenting good faith efforts to achieve the goals are contained in the MBE/WBE Procurement Program Package or DBE Procurement Program Package attached to the solicitation. When goals are established, Bidders are required to complete and return the MBE/WBE or DBE Compliance Plan with their Bid. If a Compliance Plan is not submitted prior to the date and time set forth in the solicitation, the Bid will not be accepted for consideration. (See Section 00820 for MBE/WBE requirements on "no goal" solicitations.)

All Bids shall be accompanied by an acceptable Bid guaranty in an amount of not less than five percent (5%) of the total Bid, as specified in Section 00100, Instructions To Bidders.

Performance and payment bonds when required shall be executed on forms furnished by OWNER. Each bond shall be issued in an amount of one hundred percent (100%) of the Contract Amount by a solvent corporate surety company authorized to do business in the State of Texas, and shall meet any other requirements established by law or by OWNER pursuant to applicable law.

Minimum insurance requirements are specified in Section 00810, Supplemental General Conditions. Minimum wage rates have been established and are specified in Section 00830, Wage Rates and Payroll Reporting.

Contract Time is of the essence and all Work shall be substantially completed within **Three Hundred Sixty Five (365) Calendar Days** after the date specified in the Notice to Proceed, in accordance with the Bid Form, Section 00300. **Final Completion** shall be achieved within **Seven Hundred sixty (760) Calendar Days** after **Substantial Completion**. Liquidated damages are **Two Thousand Dollars (\$2,000.00) per Calendar Day** for failure to substantially complete the work and **Two Hundred Ninety Dollars (\$290.00) per Calendar Day** for failure to achieve **Final Completion** within Seven Hundred sixty (760) Calendar Days after Substantial Completion, in accordance with the Bid Form, Section 00300.

This Project not only includes Liquidated Damages, it also includes Early Completion Bonuses, both of which may impact the final amount of compensation paid to the successful Bidder/Contractor as described in the Contract Documents

OWNER reserves the right to reject any or all Bids and to waive any minor informality in any Bid or solicitation procedure (a minor informality is one that does not affect the competitiveness of the Bid).

A mandatory Pre-Bid Conference will be held on January 08, 2015 at 1:00 PM
(date) (time)

(Austin time) at 505 Barton Springs Road, 10th Floor, Suite 1070
(location)

Austin, Texas. Attendance is mandatory unless otherwise stated. Bidders must attend any mandatory Pre-Bid Conference and are encouraged to attend any non-mandatory Pre-Bid Conference to ensure their understanding of Owner’s bidding and contracting requirements, particularly MBE/WBE Procurement Program requirements. If the Pre-Bid Conference is mandatory the Bidder must arrive and sign-in within fifteen (15) minutes of the scheduled start time of the meeting, otherwise the Bidder will not be allowed to submit a Bid for the project.

The persons listed below may be contacted for information regarding the Invitation for Bid. If the Bidder contacts any other City employee, including Council Members and members of Boards and Commissions, the Bidder may be found in violation of Ordinance No. 20111110-052, dated November 10, 2011, regarding Anti-Lobbying and Procurement. The text of that Ordinance may be viewed at <http://www.cityofaustin.org/edims/document.cfm?id=161145>.

AUTHORIZED CONTACT PERSONS

PROJECT MANAGER: Randy Harvey, telephone (512) 974-1585

email randy.harvey@austintexas.gov

CONTRACT COMPLIANCE REP.: Monica Lopez, telephone (512) 974-7057

email monica.lopez@austintexas.gov

END

Bidding Requirements, Contract Forms and Conditions of the Contract

UNIT PRICE BID FORM
Section 00300U

PROJECT
NAME: 3RD ST. RECONSTRUCTION PHASE 4 - GUADALUPE ST. TO NUECES ST.
CIPID#: 8158.004
IFB#: CLMC522

BID ITEM #	BID ITEM DESCRIPTION	UNIT	QTY	UNIT BID PRICE	TOTAL AMOUNT
STREET RECONSTRUCTION & STREETScape IMPROVEMENTS					
110S-B	Street Excavation, Plan Quantity	CY	3,660	\$	\$
SS295	Cast-in-Place Bicycle Barrier Curb	LF	710	\$	\$
SS300-1	Early Substantial Completion Bonus	CD	50	\$ 2,000.00	\$ 100,000.00
315S-A	Surface Milling	SY	1,889	\$	\$
340S-A	Hot Mix Asphaltic Concrete Pavement, Type C	TON	50	\$	\$
360S-A	9 In. Concrete Pavement	SY	3,262	\$	\$
SP360S-D	Colored 9 In. Concrete Pavement (Bike Lane)	SY	1,293	\$	\$
360S-AH7	7 In. Concrete Pavement (High Early Strength)	SY	60	\$	\$
360S-AH9	9 In. Concrete Pavement (High Early Strength)	SY	594	\$	\$
SS400	Exploratory Excavation for Proposed 24-inch Reclaimed Water Line	CY	350	\$	\$
403S-SY	Class "J" Concrete for Subgrade Material, 6-Inch thickness	SY	5,143	\$	\$
403S-EA-AF	Art in Public Places Foundations	EA	5	\$	\$
403S-EA-PS	Pay Station Foundations	EA	4	\$	\$
SP408S	Longitudinal Joint Sealant	LF	5,144	\$	\$
420S-A	Drilled Shaft, 42" Diameter	LF	36	\$	\$
430S-B	P.C. Concrete Curb and Gutter (Fine Grading)	LF	275	\$	\$
430S-B9G	P.C. Concrete Curb and with 9-inch Gutter (Fine Grading)	LF	1,775	\$	\$
SP430S-G	Colored Traffic Island Concrete Curb	LF	250	\$	\$
432S-RP-1	P.C. Sidewalk Curb Ramp with Pavers (Type I)	EA	22	\$	\$
432S-4	New P.C. Concrete Sidewalks, 4 Inch Thickness	SF	7,091	\$	\$
433S-C	Type II P.C. Concrete Driveway	SF	1,815	\$	\$
437S-A	Paver Frame and Grate	EA	37	\$	\$
437S-B	Tree Grate and Frame	EA	4	\$	\$
480S-NS-60	Concrete Paver Units for Sidewalks, 60mm	SF	10,907	\$	\$
480S-NS-80	Concrete Paver Units for Sidewalks, 80mm	SF	383	\$	\$

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CIPID#: 8158.004
IFB#: CLMC522

BID ITEM #	BID ITEM DESCRIPTION	UNIT	QTY	UNIT BID PRICE	TOTAL AMOUNT
480S-SAP-1	Streetscape Bench (60" in length)	EA	12	\$	\$
480S-SAP-3	Streetscape Bicycle Rack	EA	24	\$	\$
480S-SAP-4	Streetscape Trash Receptacle	EA	12	\$	\$
SP480S-AG	Aeration Grate and Frame	EA	30	\$	\$
504S-3G	Adjusting Gas Valve Boxes to Grade	EA	1	\$	\$
504S-3W	Adjusting Water Valve Boxes to Grade	EA	55	\$	\$
506S-4	Minor Manhole Height Adjustment, All Dia	EA	45	\$	\$
SS650	Structural Soil	CY	1,733	\$	\$
824S	Traffic Signs	EA	52	\$	\$
830S-SCF	Traffic Signal Controller Foundaiton	EA	2	\$	\$
831S-3	42" diameter Traffic Signal Drilled Shaft Foundations 12' Depth	EA	8	\$	\$
831S-3C	42" diameter Traffic Signal Drilled Shaft Foundations 12' Depth with casing	EA	2	\$	\$
SS831-TSCA	Traffic Signal Foundation Cantilever Arm, Furnish & Install	EA	2	\$	\$
832S-VSM-3	Vehicular Signal Installation, 3 Section, Complete in Place	EA	24	\$	\$
833S-PPB	Pedestrian Push-button	EA	22	\$	\$
SP834S-E1	17"x30" Hand Hole	EA	4	\$	\$
834S-C	Traffic Signal Pole Box, Type C	EA	4	\$	\$
835S-LT2	Installing Traffic Signal Conduit with Conduit 2 inch in diameter	LF	5,625	\$	\$
835S-LT3	Installing Traffic Signal Conduit with Conduit 3 inch in diameter	LF	3,125	\$	\$
835S-LT4	Installing Traffic Signal Conduit with Conduit 4 inch in diameter	LF	50	\$	\$
839S-MAP1	Type 1 Mast Arm Pole	EA	20	\$	\$
839S-MA15	15-foot Mast Arm	EA	1	\$	\$
839S-MA20	20-foot Mast Arm	EA	2	\$	\$
839S-MA25	25-foot Mast Arm	EA	6	\$	\$
839S-SDX1	Type 1 Single Davit Extension	EA	11	\$	\$
SP844S-4	Class 4 Trenching for Traffic Signal and Street Light Conduit	LF	2,500	\$	\$

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BID ITEM #	BID ITEM DESCRIPTION	UNIT	QTY	UNIT BID PRICE	TOTAL AMOUNT
863S-2	Reflectorized Pavement Markers (Type I-C)	EA	4	\$	\$
863S-3	Reflectorized Pavement Markers (Type II-A-A)	EA	50	\$	\$
863S-4	Reflectorized Pavement Markers (Type II-B-B)	EA	4	\$	\$
871S-A8W	Reflectorized Type I Thermoplastic Pavement Markings 8 inches in width, 100 mils in thickness, WHITE in color	LF	80	\$	\$
871S-A4W	Reflectorized Type I Thermoplastic Pavement Markings 4 inches in width, 100 mils in thickness, WHITE in color	LF	1,250	\$	\$
871S-A4Y	Reflectorized Type I Thermoplastic Pavement Markings 4 inches in width, SOLID, 100 mils in thickness, YELLOW in color	LF	965	\$	\$
871S-A24W	Reflectorized Type I Thermoplastic Pavement Markings 24 inches in width, 100 mils in thickness, WHITE in color	LF	1,055	\$	\$
871S-C-Box	Reflectorized Type I Thermoplastic Pavement Markings, 6' x 10' Box, 100 mils in thickness, GREEN in color	EA	5	\$	\$
871S-D-BLA	Reflectorized Type I Thermoplastic Pavement Markings, (BIKE LANE ARROW), 100 mils in thickness, WHITE in color	EA	10	\$	\$
871S-D-bicycle	Reflectorized Type I Thermoplastic Pavement Markings, (BICYCLE), 100 mils in thickness, WHITE in color	EA	9	\$	\$
SS10838-PSM	Pedestrian Signal Installation (Countdown Type), Complete in Place	EA	20	\$	\$
SP16120S-1	Landscaping Receptacles and Tree Well Lighting (Guadalupe to San Antonio)	LS	1	\$	\$
SP16120S-2	Landscaping Receptacles and Tree Well Lighting (San Antonio to Nueces)	LS	1	\$	\$
SP16120S-3	Landscaping Receptacles and Tree Well Lighting (3rd to 4th)	LS	1	\$	\$
16550S	Street Light Standard Foundation	EA	6	\$	\$
SS329000-A	Planting Trees, up to 200 Gallon Container Size	EA	32	\$	\$
SS328000-A	Complete Irrigation 'System A' (4th/Nueces to San Antonio)	LS	1	\$	\$
SS328000-B	Complete Irrigation 'System B' (Guadalupe to San Antonio)	LS	1	\$	\$
SS329800-1	Landscape Maintenance	MO	24	\$	\$
STREET RECONSTRUCTION & STREETScape IMPROVEMENTS SUBTOTAL:					\$

STORM DRAINAGE IMPROVEMENTS					
506S-CNSW	Connection to Existing Storm Drain Pipe	EA	3	\$	\$
506S-MSW48	Standard Pre-Cast Manhole w/Pre-Cast Base, 48" Dia, w/ Bolted Cover	EA	2	\$	\$
506S-MSW72	Standard Pre-Cast Manhole w/Pre-Cast Base, 72" Dia, w/ Bolted Cover	EA	3	\$	\$
506S-SSW18	Special Manhole, 18-inch Dia., Storm Drain Cleanout	EA	4	\$	\$
508S-I10S	Inlet, Standard 10 Ft	EA	7	\$	\$

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CIPID#: 8158.004
IFB#: CLMC522

BID ITEM #	BID ITEM DESCRIPTION	UNIT	QTY	UNIT BID PRICE	TOTAL AMOUNT
SP508S-ITD8x240	Inlet, Bolted Trench Drain 8" x 240"	EA	2	\$	\$
509S-1SW	Trench Excavation Safety Protective Systems (all depths)(Storm Water)	LF	2,074	\$	\$
510-ASD6"Dia.	Pipe, 6-inch PVC Schedule 40 Non-Perforated & Clean-Outs (all depths), including Excavation and Backfill	LF	972	\$	\$
510-ASD18"Dia.	Pipe, 18-inch RCP Storm Drain, Class 5 (all depths), including Excavation and Backfill	LF	463	\$	\$
510-ASD22x13.5 Arch	Pipe, 22-inch x 13.5-inch Arch RCP Storm Drain, Class 4 (all depths), including Excavation and Backfill	LF	112	\$	\$
510-ASD28.5x18 Arch	Pipe, 28.5-inch x 18-inch Arch RCP Storm Drain, Class 4 (all depths), including Excavation and Backfill	LF	550	\$	\$
510-VIDEO	Video Inspection of Newly Installed Box Culverts and Storm Drain Pipe	LF	1,125	\$	\$
STORM DRAINAGE IMPROVEMENTS SUBTOTAL:					\$

WATER IMPROVEMENTS					
509S-1	Trench Excavation Safety Protective Systems (all depths)	LF	139	\$	\$
510-KW	Ductile Iron Fittings	TON	2.0	\$	\$
510-AW-6" DIA	PIPE, 6" DIA, Class 350 Ductile Iron, (All Depths) Including Excavation and Backfill	LF	44	\$	\$
510-AW-12" DIA	PIPE, 12" DIA, Class 350 Ductile Iron, (All Depths) Including Excavation and Backfill	LF	20	\$	\$
510-AW-16" DIA	PIPE, 16" DIA, Class 250 Ductile Iron, (All Depths) Including Excavation and Backfill	LF	75	\$	\$
510-JW 12"x 6" Dia.	Wet Connections, 12" Dia. X 6" Dia.	EA	3	\$	\$
510-JW 16"x 6" Dia.	Wet Connections, 16" Dia. X 6" Dia.	EA	1	\$	\$
510-JW 16"x 12" Dia.	Wet Connections, 16" Dia. X 12" Dia.	EA	1	\$	\$
510-JW 16"x 16" Dia.	Wet Connections, 16" Dia. X 16" Dia.	EA	1	\$	\$
510-JW 16"x 24" Dia.	Wet Connections, 16" Dia. X 24" Dia.	EA	1	\$	\$
511S-A6	Valves, Iron Body Resilient Seated Gate Valves Type, 6" Diameter	EA	3	\$	\$
511S-A12	Valves, Iron Body Resilient Seated Gate Valves Type, 12" Diameter	EA	1	\$	\$
511S-A16	Valves, Iron Body Resilient Seated Gate Valves Type, 16" Diameter	EA	1	\$	\$
511S-B	Fire Hydrants (See Standard 511S-17)	EA	3	\$	\$
SP511S-I-12	Permanent Insertion Valve, 12-inch Diameter, Complete in Place	EA	2	\$	\$
SP511S-J-24	Temporary Line Stop, 24-inch Diameter, Complete in Place	EA	2	\$	\$
SP511S-L	Remove & Salvage of Existing Fire Hydrant	EA	3	\$	\$

Bidding Requirements, Contract Forms and Conditions of the Contract

UNIT PRICE BID FORM
Section 00300U

PROJECT NAME: 3RD ST. RECONSTRUCTION PHASE 4 - GUADALUPE ST. TO NUECES ST.
 CIPID#: 8158.004
 IFB#: CLMC522

BID ITEM #	BID ITEM DESCRIPTION	UNIT	QTY	UNIT BID PRICE	TOTAL AMOUNT
WATER IMPROVEMENTS SUBTOTAL:					\$

RECLAIMED WATER IMPROVEMENTS					
505S-B36	Encasement Pipe 36 Dia., Type Steel	LF	20	\$	\$
509S-1RCW	Trench Excavation Safety Protective Systems (all depths)	LF	235	\$	\$
510-AR-4" DIA	Pipe, 4" DIA, Class 350 Ductile Iron, (All Depths) Including Excavation and Backfill	LF	10	\$	\$
510-AR-6" DIA	Pipe, 6" DIA, Class 350 Ductile Iron, (All Depths) Including Excavation and Backfill	LF	25	\$	\$
510-ARRJ-24" DIA	Ractory Restrained Joint Pipe, 24" DIA, Class 250 Ductile Iron, (All Depths) Including Excavation and Backfill	LF	200	\$	\$
510-KR	Ductile Iron Fittings	TON	1.2	\$	\$
511S-A6RCW	Valves, Iron Body Resilient Seated Gate Valves Type, 6" Diameter	EA	1	\$	\$
SP511S-K	Blow-off Valve Assembly	EA	1	\$	\$
RECLAIMED WATER IMPROVEMENTS SUBTOTAL:					\$

WASTEWATER IMPROVEMENTS					
506S MWW4	Standard Pre-cast Manhole w/Pre-cast Base, 4-ft Dia.	EA	1	\$	\$
506S EDMWW4	Extra Depth Standard Pre-cast Manhole, 4-ft. Dia.	LVF	9	\$	\$
509S-1WW	Trench Excavation Safety Protective Systems (all depths)	LF	10	\$	\$
510-AWW-12" DIA	Pipe, 12" Dia. SDR-26 PVC Wastewater (All Depths) Including Excavation and Backfill	LF	10	\$	\$
SP506S JSWW	Joint Sealing of Existing Wastewater Manhole	LS	1	\$	\$
WASTEWATER IMPROVEMENTS SUBTOTAL:					\$

GENERAL ITEMS					
101S-B	Preparing Right of Way	STA	13.50	\$	\$
628S-B	Sediment Containment Dikes with Filter Fabric	LF	100	\$	\$
700S-TM	Total Mobilization Payment	LS	1	\$	\$
700S-F1FF	F1 Fan Festival SXSW Stop Work	LS	1	\$	\$
700S-SXSW	South by Southwest Festival Stop Work	LS	1	\$	\$
802S-B BOND	Bond Project Sign	EA	2	\$	\$

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BID ITEM #	BID ITEM DESCRIPTION	UNIT	QTY	UNIT BID PRICE	TOTAL AMOUNT
802S-B C.I.P.	C.I.P. Project Sign	EA	2	\$	\$
803-CD	Barricades, Signs and Traffic Handling	CD	365	\$	\$
803S-SF	Safety Fence	LF	4,000	\$	\$
SP803S - BAS	Project Sign for Business Access	EA	10	\$	\$
SP803S - PCMB	Portable Changeable Message Board	CD	100	\$	\$
GENERAL ITEM SUBTOTAL:					

ALLOWANCE	
Allowance #1 - Drilled Shaft Foundations for Moon-Tower	\$ 50,000.00
Allowance #2 - Procurement of Trees	\$ 70,000.00

STREET RECONSTRUCTION & STREETScape IMPROVEMENTS SUBTOTAL:	\$
STORM DRAINAGE IMPROVEMENTS SUBTOTAL:	\$
WATER IMPROVEMENTS SUBTOTAL:	\$
RECLAIMED WATER IMPROVEMENTS SUBTOTAL:	\$
WASTEWATER IMPROVEMENTS SUBTOTAL:	\$
GENERAL ITEM SUBTOTAL:	\$
ALLOWANCE SUBTOTAL:	\$ 120,000.00

TOTAL BID \$

(YOUR FIRM'S NAME) certifies that the unit prices shown on this completed computer printout for all of the bid items and the 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 printout. (YOUR FIRM'S NAME) acknowledges and agrees that the total bid amount shown will be read as its total bid. In the event of a mathematical error, the correct product, determined by using the "Unit Price" and "Quantity", and the correct sum, determined by totaling the correct line item Amounts, will prevail over the amount entered by the Bidder.

Signed: _____

Title: _____ Date: _____

Division 1 General Requirements
ALLOWANCES
Section 01020

PART 1 - GENERAL

1.01 Description

Two allowances are included in this Contract. An allowance of \$50,000 is provided for the negotiation of the costs related to the installation of drilled pier foundations supporting a moon-tower and four (4) guy-wire poles. An allowance of \$70,000.00 is provided for the negotiation of the costs related to for the procurement of trees.

1.02. Submittals

Provide submittals in accordance with applicable standard specifications and details provided prior to negotiation of applicable costs.

PART 2 - PRODUCTS

Materials used shall be in accordance with applicable specifications and details provided prior to negotiation of applicable costs.

PART 3 - EXECUTION

3.01 GENERAL

- A. The drilled pier foundations for a Moon-Tower are currently being designed. When completed, the Owner will request a cost proposal from the Contractor to construct the foundations in accordance with the design and applicable specifications. Upon successful negotiation of the unit costs for the Moon-Tower foundations, the Owner will execute a Change Order adding the new Pay Items for the Moon-Tower foundations to the Contract and will reduce the Allowance by the corresponding amount.
- B. The Owner will provide the Contractor with specifications applicable to the proposed trees and the Contractor will seek available trees meeting the specifications. Upon identification of trees acceptable to the Owner, the Owner will request a cost proposal from the Contractor to procure the trees and deliver to the jobsite. Upon successful negotiation of the unit costs for procurement of the trees, the Owner will execute a Change Order adding the new Pay Item(s) to the Contract will reduce the Allowance by the corresponding amount.

3.02 ALLOWANCES

A. Allowance No. 1 – Installation of Drilled Pier Foundations for Moon-Tower

Allow the sum of Fifty Thousand Dollars (\$50,000) for the negotiation of costs related to the installation of drilled pier foundations supporting a moon-tower and four (4) guy-wire poles.

B. Allowance No. 2 – Procurement of Trees

Allow the sum of Seventy Thousand Dollars (\$70,000) for the negotiation of costs related to the procurement of trees.

END OF SECTION

**SPECIAL SPECIFICATION
SS329000 Tree Planting****PART 1 - GENERAL****1.01 RELATED DOCUMENTS**

Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section. Provisions of the General and Supplementary Conditions supersede provisions of this section and the Drawings in the case of a conflict.

1.02 SUMMARY

- A. Furnish all labor, material, equipment and services necessary to install all landscape planting, complete in place, as shown and specified. This Section includes the following:
 - 1. Soils.
 - 2. Mulches.
 - 3. Stakes and guys.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 – Submittal Procedures
 - 2. Division 1 - Operation and Maintenance Data
 - 3. Section SS328000 - Irrigation System
 - 4. Section SS329800 – Landscape Maintenance

1.03 SCOPE

- A. Provide all materials, labor, equipment and services required for the installation of all planting and related work as shown on the drawings and noted herein.
- B. Procurement of tree materials is addressed in Allowance #2 – Procurement of Tree Materials

1.04 ON-SITE STORAGE AND HANDLING

- A. The Contractor shall notify the Landscape Architect seven (7) days in advance of delivery of all tree materials. Deliver all trees with legible identification labels stating proper botanical names and sizes indicated on plant list. If planting is delayed more than 6 hours after delivery, set trees in shade, protect from weather and mechanical damage, and keep roots moist so that trees are maintained in a healthy, vigorous condition. Protect trees while on-site to prevent damage to root balls, trunks or branches or desiccation of leaves.
 - 1. Do not remove container-grown stock from containers before time of planting.
 - 2. Water root systems of trees stored on site with a fine-mist spray. Water as often as necessary to maintain root systems in a moist condition.
- B. Trees that have been damaged in any way will be discarded and if installed, shall be replaced with undamaged materials at the Contractor's expense.

- C. Tree delivery and installation shall be coordinated such that they are completed on the same day. Should planting be unavoidably delayed, contractor shall heal trees in an upright manner, or a manner acceptable to the Landscape Architect.
- D. Under no circumstances are trees to be handled by stem or trunk. All trees are to be handled with flexible straps secured around root ball.

1.05 PROJECT CONDITIONS

- A. Utilities: Determine location of above grade and underground utilities and perform work in a manner which will avoid damage. Contractor is responsible for any damage to utilities and Owner's property. Coordinate with all other site contractors. Hand excavate, as required. Maintain grade stakes until removal is mutually agreed upon by parties concerned.
- B. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before planting.
- C. Work continuously on the site with exception of bad weather delays until the project is completed. Maintain records of bad weather days and notify Landscape Architect as they occur.

PART 2 - PRODUCTS**2.01 PLANTING SOIL**

Prepared Planting Mix: "Bed Mix" from Organics by Gosh. Phone 512-276-1211

2.02 MULCHES

The mulch shall be Type 1 Shredded hardwood organic mulch, free from deleterious materials, and suitable as a top dressing of trees.

2.03 STAKES AND GUYS

- A. Ground Screw Anchor: as referenced in planting details.
- B. Tie Cable: 12 gauge wire.
- C. Hose Chafing Guard: Reinforced rubber or plastic hose at least 1/2 inch in diameter, black, cut to lengths required to protect tree trunks from damage.

2.04 TREE PAINT

Morrison Tree Seal, Cabort Tree Paint, or approved equal.

2.05 WATER

Furnished by Contractor prior to installation of the proposed irrigation system and furnished by Owner after installation of the proposed irrigation system.

PART 3 - EXECUTION**3.01 EXAMINATION**

- A. Obtain Owner's certifications that rough grades to plus or minus 0.10' have been established prior to commencing planting operations. Provide for inclusion of all amendments, settling, etc. Landscape Contractor shall be responsible for

shaping and fine grading all planting areas as indicated on plans or as directed by Landscape Architect.

- B. Verify location of all utilities prior to pit excavation and grading. Contractor is responsible for any damage to utilities and Owner's property. Coordinate with all other site contractors.
- C. Inspect trees for injury, insect infestation, and improper pruning. Do not begin planting of trees until deficiencies are corrected or trees replaced.
- D. Quantities shown on plans are for the convenience of the Contractor. In case of discrepancy between the tree list and the plans, the plans shall govern. The Contractor is also responsible for determining the quantities needed to complete the installation to the full extent dimensioned on the drawings.

3.02 PREPARATION

- A. Planting mix for all trees to consist of the prepared planting bed mix.
- B. Contractor to provide 48-hour notice to Landscape Architect prior to mixing of any soil on site for approval of mixed soil.
- C. If soils are mixed off site, contractor shall submit location of pre-mix and mix analysis for Landscape Architect.

3.03 EXCAVATION FOR TREES

- A. Layout of Major Plantings: Tree locations and outlines of planting beds shall be marked on the ground by the Contractor before any plant pits are dug. All such locations shall be approved by the Landscape Architect. If underground construction or utility line is encountered in the excavation of planting areas, other location for planting may be selected by the Landscape Architect.
- B. Pits and Trenches: Excavate with vertical sides and with bottom of excavation slightly raised at center to assist drainage. For all tree excavation, roughen glazed surface on sides and bottom of the excavation holes by use of hand tools.
 - 1. Trees pit dimensions
 - a. Depth: Reference details
 - b. Width: Reference details
 - 2. All excess soil excavated from beds to be hauled off and disposed of in a lawful manner offsite unless by written consent, the Landscape Architect directs the Contractor to supplement lawn area with approved excavated soil.
 - 3. Contractor shall fracture and break rock or clay if encountered in excavation and perform a drainage test. The tree or planting pits shall be filled with water and shall drain completely within a 24 hour period to be acceptable for planting. Notify Landscape Architect upon such occurrences.
 - 4. Contractor to scarify and roughen bottom and sides of pit to ensure that glazing of clay pit does not occur. Contractor to be responsible to provide adequate drainage to prevent waterlogging of plants.
- C. Where trees are planted over an existing Austin Energy duct bank (as shown on the Landscape drawings), **Detail 432S-7B Modified** shall be used. Planting of all other trees shall be in accordance with Detail 432S-7B. Both Details are included in the approved drawings

3.04 PLANTING TREES

- A. Contractor will install trees procured through Allowance #2.
- B. Planting of Trees:
 - 1. Protect all areas from excessive compaction when trucking plants or other material to the planting site. Protect existing site amenities during landscape operations.
 - 2. Removal of containers:
 - a. Remove bottom of tree boxes before planting. Remove sides of box without damage to root ball after positioning plant and partially backfilling.
 - b. Remove all plastic fabrics, containers, ropes and wires from tree canopies.
- C. All trees shall be set upright and plumb in center of hole. Trees in formal plantings shall be laid out according to the dimensions on plans. Trees shall be set to give best appearance. All trees shall set level with finished grade upon completion of planting operations. Adjust tree elevations should settling occur.
- D. Set container-grown stock plumb and in center of pit or trench with top of ball raised above adjacent finish grades as indicated.
 - 1. Carefully remove containers so as not to damage root balls.
 - 2. Place stock on setting layer of compacted planting soil.
 - 3. Backfill with planting mix around ball in layers, tamping to settle backfill and eliminate voids and air pockets. When pit is approximately 1/2 backfilled, water thoroughly before placing remainder of planting mix. Repeat watering until no more is absorbed. Water again after placing and tamping final layer of planting mix.
- E. Dish and tamp top of backfill to form a 4-inch high mound around the rim of the pit. Do not cover top of root ball with planting mix.
- F. After installation, trees shall be watered thoroughly. Any settling of trees or finished grade that occurs shall be repaired prior to installation of mulch. Finished grade of planting beds to be per the applicable details.

3.05 TREE PRUNING

- A. Prune, thin, and shape trees and shrubs ONLY as directed by Owner/Landscape Architect. Apply tree paint as directed by Owner/Landscape Architect.

3.06 TREE STAKING/GUYING

- A. Guys: Tree guying and ground screw anchor as indicated on planting details.

3.07 MULCHING

- A. Mulch backfilled surfaces of tree pits at a four (3) inch depth.

3.08 PLANTING SEASON

- A. All planting shall be performed as shown below, indicated on the Drawings or as approved by the Landscape Architect or Owner’s representative

Planting Stock	Planting Dates
All Tree Stock	October 1 st thru March 31 st

3.09 CLEANUP AND PROTECTION

- A. During landscaping, keep pavements clean and work area in an orderly condition.
- B. Protect landscaping from damage due to landscape operations, operations by other contractors and trades, and trespassers. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged landscape work as directed.

3.010 DISPOSAL OF SURPLUS AND WASTE MATERIALS

Disposal: Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of it off the Owner's property.

3.11 CLEANING

On a daily basis, the Contractor shall leave the site in an orderly and clean condition removing all equipment, unused materials, clippings of plant materials, packaging, and soil, stones or rubble uncovered during planting operations.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

Work and accepted material as prescribed for this item will be measured per each tree planting complete and in place for trees up through a 200 gallon container size.

4.02 PAYMENT

Work and accepted material as prescribed for this item, measured as provided under "Measurement", will be paid for at the unit bid price bid for each tree planting complete and in place. The unit bid price shall include full compensation for furnishing all labor, tools, equipment, planting materials, and incidentals necessary to complete the installation of the trees procured under Allowance #2 in accordance with this specification and the applicable drawing details noted herein. Unit Cost shall include planting of trees with a maximum container size of 200 gallons. Materials and incidentals include but are not limited to; topsoil, backfill, aluminum plate where planting over electric duct lines, root barrier, waterproofing membrane, lime, staples, anit-dessicant, herbicide, pesticide, fertilizer, insect control, disease control, animal control, watering, fertilizing, herbicide application, pesticide application, litter pickup, maintenance, monitoring, supplies and incidentals necessary to complete the installation of the trees procured under Allowance #2 in accordance with this specification and the applicable drawing details noted herein.

Payment will be made under:

Pay Item No. SS-329000-A: Planting Trees, Up to 200 Gal.	Per Each.
Container Size	

END.