

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

ADDENDUM No. _2

Date October 3, 2016

City of Austin

Project Name Taylor Lane 0.1 MGD Wastewater Treatment Project

C.I.P. No. 3353.095 IFB No.: IFB6100 CLMC600

This Addendum forms a part of the Contract and corrects or modifies original Bid Documents, dated September 5, 2016. Acknowledge receipt of this addendum in space provided on bid form. Failure to do so may subject bidder to disqualification.

A. Project Manual Revisions:

Remove Specification 09900, Paint and Coatings in its entirety

Replace Specification 11330, Automatic Screen with attached

Replace Specification 11393, Disk Filter with attached

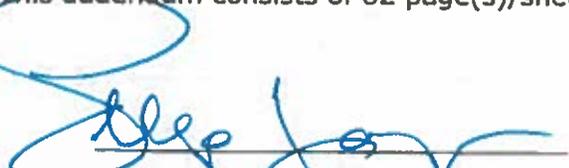
Replace Specification 11500, 0.1 MGD WWTP Package WWTP with attached

Replace Volume 4 in its entirety with the attached volume 4

B. Drawing Revisions:

Replace sheets C-11, M-1A, M-2, and M-2A with attached

This addendum consists of 82 page(s)/sheet(s).



Approved by City Project Manager



Approved by OWNER



Approved by ENGINEER/ARCHITECT



END

GENERAL

1.01 DESCRIPTION

- A. Scope: This section of the specifications covers the labor, materials, equipment and installation necessary to install two (2) automatic bar type screens in parallel with appurtenances for a complete operating system. Items of equipment include screens, stainless steel box, integrated bypass, floats, control panel, supports, discharge chute, anchors and fasteners. All equipment items shall be supplied by a single supplier to insure a complete working system.
- B. The screen shall be cleaned with multiple rakes that engage the screen from the downstream side. Screenings shall be carried up the screen and discharged into the removal basket for disposal to the Owner supplied container. All materials of construction for the screen shall be non-corrosive.
- C. Design Data:
 - a. Clear opening between bars: 9mm
 - b. Maximum flow: 277.7 gpm
 - c. Motor data: 0.25 hp, 460v, 3 phase

1.02 QUALITY ASSURANCE

- A. The equipment shall be furnished by a single manufacturer fully experienced in the manufacturer of the equipment to be furnished. The screen manufacturer shall have a minimum of 10 years of experience in the design and manufacturer of the automatic bar type screens.
- B. The contract documents provide details of a complete equipment installation for the purpose specified. It shall be the responsibility of the Contractor to coordinate all the details required for a complete operating system, such as protective coatings, piping, pumps and wiring. The Contractor shall provide for all work required to properly install, adjust, and place into operation a complete working system.

1.03 SUBMITTALS

- A. Information required for approval by the Engineer prior to incorporation into the project shall include the following as a minimum requirement:
 - 1. Specifications for all electrical and mechanical components and complete wiring diagrams for all the automatic functions.
 - 2. Manufacturer's recommended procedures for jobsite storage and handling of equipment.
- B. Operation and Maintenance Manuals: Prior to startup of equipment and updated as required during installation of the equipment, the manufacturer shall furnish

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complete and detailed installation, operation and maintenance manuals which shall include the following as a minimum requirement:

1. Assembly, installation and adjustment instructions.
2. Maintenance instructions.
3. Complete descriptive literature of all materials and components furnished.
4. Erection drawings with equipment mark numbers.

1.04 WARRANTY

The manufacturer shall warrant the screen and other associated manufacturer supplied equipment against defects in material or workmanship for a period of two (2) years from the date of start-up.

PRODUCTS

2.01 MANUFACTURER(S)

- A. Automatic Bar Type Screens package system consisting of parallel screens, stainless steel box, integrated bypass, floats, control panel, supports, discharge chute, anchors and fasteners. , and other components as specified herein.
 1. OVIVO/ENVIROQUIP, INC FS-1100S, 9mm bar spacing,
 2. Approved Equal
- B. The equipment detailed in this Section, and shown on the PLANS is specified by proprietary name, trade name, and/or name of one or more manufacturers. These items are so specified for reasons of obtaining desirable features best suited to the specific location requirements. Un-named manufacturers must comply with the specifications and include cost for any necessary coordination, design, installation or construction of all necessary modifications to foundations, structures, piping, electrical service, and controls to provide a complete, installed functioning unit at no additional cost to the OWNER in accordance with the Contract General Conditions.

2.02 MATERIALS

- A. The screen shall be the automatic self-cleaning type with vertical bars and multiple rakes to carry the screenings upward to the discharge point. The bars are inclined to the horizontal and spaced per section 1.01.C Design Data. The bars shall be trapezoidal in shape manufactured from Type 304 stainless steel.
- B. The rakes shall be manufactured from Polycarbonate. The rakes engage the screen to remove trapped material from the downstream side. The rakes are attached at both ends to a Type 304 stainless steel carrier chain. The chain is driven by four sprockets, two upper and lower, manufactured from UHMW. The chain rides on UHMW guide strips attached to each side frame. The sprockets are keyed to Type 304 stainless steel shafts that extend across the width of the frame and are

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supported by bolt-on solid lube bearings. The upper shaft has an internal key for the gearmotor drive shaft attachment.

- C. The frame is manufactured from gauge stainless steel formed with a flange on the front and rear to provide rigidity. The frame has a bolt on support stand, is self-supporting and sits in the floor of the bar screen box or influent channel. PVC pipe spacers are bolted across the frame to maintain the uniform width from top to bottom and also provide rigidity.
- D. Side seals are furnished along the inclined side frames and attach with Type 304 stainless steel fasteners and a reinforcing strip on the downstream side. The seals are 40 durometer neoprene and overlap and lay against the sides of the screen box or influent channel to form a seal. The vertical front of the screen frame is fitted with a sponge gasket to seal the front to the box or concrete ledge and provide a place for the side seals to interface.
- E. The rakes are driven by a high reduction gearmotor. The motor is totally enclosed as part of the gear reducer. Fifteen (15) feet of power cord is provided and is sealed to the gearmotor. The gearmotor can be wetted and part of the maintenance program is frequent cleaning. The gearmotor is attached to the frame with a four bolt connection and direct drives the upper shaft of the screen. The motor shall be suitable for operation in a Class I, Division I, Group C or D area. A thermal overload relay shall be provided in the control panel set to trip at 110 percent of full load amps as overload protection for the drive. All mechanical components are designed to withstand 150 percent of the maximum output of the drive.
- F. All materials are non-corrosive; Type 304 stainless steel, HDPE plastic or UHMW. The gearmotor shall receive two coats of high build epoxy coating at the factory.
- G. A NEMA 4X stainless steel enclosure control panel shall be provided to house the combination motor starter/circuit breaker, thermal overload relay, HOA switch and time delay relay for proper automatic operation of the screen. A float switch shall be wired to contacts in the panel to initiate operation of the screen and initiate the time delay to terminate screen operation after a 15 second delay.

2.03 CONTROLS

- A. Screen Control Panel: The manufacturer of the screen shall provide a local control panel mounted on the handrails or a steel support stand near the screen.
 - 1. The screen control panel shall have a NEMA 0 motor starter and .5 KVA CPT in a NEMA 4X corrosion resistant enclosure. The panel shall have automatic controls for operating the screen. An adjustable float switch, located upstream of the screen, shall be used to initiate operation if accumulated trash is clogging the screen. An adjustable time delay with relay shall be provided to allow the screen to continue operation for 0 to 60 seconds after the float switch trips off.

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EXECUTION

3.01 INSTALLATION

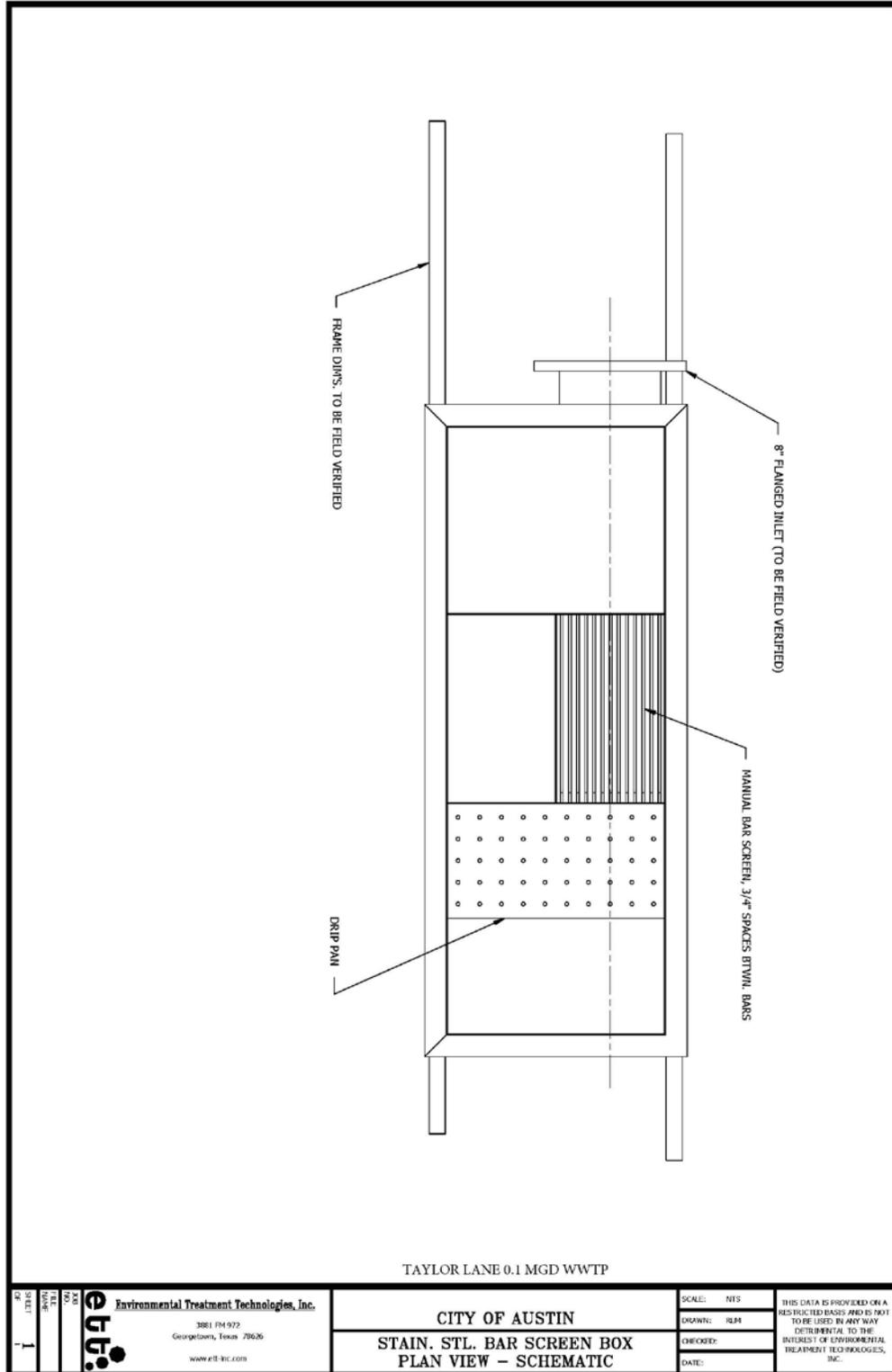
- A. Manufacturer's Service Representative: The screen(s) shall be furnished complete by the manufacturer and assembled, erected, and installed by the Contractor as directed by the manufacturer in his working drawings and written instructions. The installation, alignment and testing shall be checked and approved by a factory representative before acceptance.

3.02 TESTING

- A. The manufacturer shall demonstrate to the Owner and Engineer that the screen cleaning mechanism effectively removes debris from the influent wastewater and that all electrical and mechanical equipment functions as intended.

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PLOT DATE:
 PLOT SCALE:



END OF SECTION

PART 1 GENERAL

1.1 SCOPE OF WORK:

- A. Contractor to furnish all labor, materials, equipment and incidentals required for the automatic backwash filter system as shown on the drawings and as specified herein, installed, tested and ready for operation.
- B. Each Discfilter shall consist of a central drum onto which the discs with the filter media panels are assembled. The rotating filter drum is supported on the front and rear ends by sleeve bearings. Each filter unit shall include center drum, discs with filter media panels, support frame with cover, backwash spray assembly with pump, backwash trough, drive mechanism, automatic control system and components as specified.
- C. Filter shall be designed for installation as shown on the contract drawings/plans.

1.2 RELATED DOCUMENTS

- A. Drawings and all provisions of the Contract Documents shall apply to this Section.
- B. City of Austin Standard Specifications
- C. 01300 - Submittals
- D. 01660 - Facility Startup/Commissioning
- E. 01730 - Operation and Maintenance Manuals
- F. 16010 - Electrical General Provisions
- G. 16172 – Electrical Motor 200 HP and Less
- H. 16200 – Wire Conductors Cables – 600V and Less
- I. 16205 – Wire and Cable Tagging
- J. 16250 – Boxes and Cabinets
- K. 16263 – 120 VAC Uninterruptible Power Supplies
- L. 16300 – Wiring Devices
- M. 16700 – Common Control Panel Requirements
- N. 17000 - Packaged Systems PLC Programming Criteria
- O. 17100 - Process Control and Instrumentation Systems
- P. 17510 - Manufacturer's PLC-Based Control System Hardware
- Q. 17520 - Manufacturer's PLC-Based Control System Software

1.3 QUALITY ASSURANCE:

- A. Applicable Standards:
 - 1. ASTM -American Society for Testing and Materials
 - 2. AISI -American Iron and Steel Institute
 - 3. AGMA -American Gear Manufacturer's Association
 - 4. NEMA- National Electrical Manufacturer's Association
 - 5. NEC -National Electric Code
 - 6. AWS D1.6 - Structural Welding Code: Stainless Steel
 - 7. OSHA – Occupational Safety and Health Administration
- B. To assure unity of responsibility, center tube, discs with filter media panels, support frame with cover, backwash spray assembly with pump, backwash trough, drive mechanism, automatic control system and components as specified shall be furnished and/or coordinated by a single manufacturer.
- C. All painting shall be per Manufacturer's standards.

D. Experience of Equipment Manufacturers:

1. It is the intent of the contract documents to procure the best equipment and services that are available. The filtration equipment shall be furnished by a manufacturer who shall have at least ten (10) years experience in the United States or fifteen (15) years experience elsewhere in the design, production, assembly and field service of equipment of like type, size and capacity in similar applications. The equipment manufacturer must supply a list of at least fifty (50) successful installations in the United States utilizing equipment of like type in similar applications. In addition, the equipment manufacturer must have provided at least five (5) installation sites in the state of Texas.
2. The equipment supplier must have manufacturing and warehouse facilities located in the United States including parts inventory, and personnel based in the United States and employed by the supplier to provide direct technical and field support. The equipment manufacturer must provide information supporting their ability to provide these services.
3. The disc filtration technology shall be accepted filtration technology for compliance with the Texas Commission on Environmental Quality.
4. Any equipment manufacturer that does not meet the experience requirements stated within this specification shall provide the following items:
 - a. Performance Bond or other suitable means of financial guarantee that the disc filtration system will meet the performance requirements described above. The Performance Bond shall be for a duration of 36 months after system startup.
 - b. Dunn & Bradstreet Report
 - c. Current Annual Financial Statement
 - d. Credit Report

E. Acceptable Manufacturer:

1. Disk Filter: Packaged system consisting of center drum, discs with filter media panels, support frame with cover, backwash spray assembly with pump, backwash trough, drive mechanism, automatic control system, specified electric controls with internal components, and other components as specified herein.
 - a. Kruger, Inc.
 - b. Evoqua Forty-X™ Disc Filter
 - c. Approved equal.
2. The equipment detailed in this Section, and shown on the PLANS is specified by proprietary name, trade name, and/or name of one or more manufacturers. These items are so specified for reasons of obtaining desirable features best suited to the specific location requirements and for operation and maintenance. Un-named manufacturers must comply with the specifications and include cost for any necessary coordination, design, installation or construction of all

necessary modifications to foundations, structures, piping, electrical service, and controls to provide a complete, installed functioning unit at no additional cost to the OWNER in accordance with the Contract General Conditions.

F. Equipment:

1. PLC shall be Modicon M340 w/ BMX P342020 Processor with no exceptions.
2. HMI shall be a 15 Magelis XBT-GT-7340 with no exceptions.

1.4 SUBMITTALS

- A. Submit as specified in Division , Section 01300, Submittals
- B. The Contractor shall furnish shop drawings, catalog data, operation and maintenance manuals, installation instructions, parts list, layout drawings, equipment design data, testing data and reports to show full compliance with these specifications.

1.5 PERFORMANCE REQUIREMENTS

- A. The Discfilter System shall be capable of meeting the following phased performance requirements within one unit.

Performance Criteria, System	Phase I	Phase II
Peak Flowrate, MGD* (gpm)	0.4 (278)	2.0 (1,389)
Average Flowrate, MGD* (gpm)	0.1 (69)	0.5 (347)
Maximum Influent TSS*, mg/L	≤40	≤40
Daily Average Influent TSS*, mg/L	≤20	≤20
Daily Average Effluent TSS*, mg/L	≤5	≤5
7 Day Average Effluent TSS* mg/l	≤10	≤10
Daily Max Effluent TSS* mg/l	≤20	≤20
Single Grab Effluent TSS* mg/l	≤30	≤30

Filter Design Data	Phase I	Phase II
Filter Pore Size, μm	10	10
Filter Cloth Material	Polyester	Polyester
Number of Units	1	1
Number of Filter Discs per unit	3	6
Filter Disc Diameter, m	2.2	2.2
Effective Filter Surface Area per unit, ft ²	117.5	235
Filter Drive Unit		
Drive Motor (1 per unit)	1.5 HP, 460v, 3 phase	1.5 HP, 460v, 3 phase
Drive Motor Service Factor	1.3	1.3
Drive Assembly	Drive Chain and Sprocket	Drive Chain and Sprocket

Backwash Cleaning System		
Number of Backwash Nozzles (per Disc)	10	10
Backwash Pump (1 per unit)	5 HP, 460v, 3 phase	5 HP, 460v, 3 phase
Backwash Pressure, psi	110	110
Design Backwash Flowrate, gpm	40	40

*Average TSS concentrations are based on analysis of 24 hr composite samples. Meeting the performance requirements is contingent on the upstream process providing influent to the filters with characteristics suitable for filtration, i.e., particles of sufficient size and strength to allow retention on the specified 10 um media surface.

- B. The automatic backwash filter system shall be suitable for filtering domestic wastewater after secondary treatment and clarification. Each filter shall be designed to operate on a continuous basis and shall be designed to operate while receiving varying flows.
- C. The proposed disc filtration system shall not exceed a hydraulic loading rate of 5.90 gpm/sf at peak flow.
- D. Filtration system shall utilize an "inside-out" flow pattern in which influent flows by gravity into the filter discs from the center drum. Solids are separated from the water by partially submerged filter media. Filtration systems with fully submerged media utilizing an "outside-in" flow pattern shall not be acceptable due to accumulation of solids in the tank, resulting in a dirty and unsanitary work environment for the plant operation staff.
- E. In order to minimize electrical and operation costs, filtration systems that employ a "dynamic tangential filtration" design shall not be accepted.
- F. Any equipment manufacturer that does not meet the experience requirements stated within this specification shall provide a Performance Bond or other suitable means of financial guarantee that the disc filtration system will meet the performance requirements described above. The Performance Bond shall be for a duration of 36 months after system startup.

PART 2 PRODUCTS

2.1 MATERIALS AND EQUIPMENT

- A. All fabricated metal shall be minimum grade AISI 304 stainless steel, unless otherwise stated in this specification. All welding of structural members shall conform to the latest requirements of AWS D1.6. Filter panels shall be polyester filter cloth mounted on plastic frames with integrated rubber seals. Filter disc segments shall be injection molded ABS plastic.
- B. The valves, equipment, materials of construction and controls specified under this section supersede valves, equipment, materials of construction and controls specified elsewhere in the contract documents. Purchased components such as gear reducers, pumps, motors, valves, and actuators shall be provided with standard recommended manufacturers paint, unless otherwise specified within this section.
- C. The disc filtration units shall be fully preassembled and factory inspected prior

to shipping the filtration units. Drive motor and backwash pump are to be installed at factory and provided integral to filtration unit.

- D. Flange connections to be provided with AISI 316L stainless steel stub ends and loose galvanized flange collar rings.

2.2 CENTER DRUM

- A. The center drum shall be a water tight, one piece, structural welded, AISI 304 stainless steel fabrication, open at one end to allow the influent to enter, and have openings to the filter discs for water distribution to the filter media. The center drum shall have lubricated bearings, which must be externally accessible via grease tubing and fittings for routine lubrication.

2.3 DISC ASSEMBLY

- A. The filter shall be composed of modular and removable discs. Each disc shall consist of disc segments that can be easily mounted or dismounted as required. The segments of one disc will be bolted to each other, and the completed disc assembly will be secured to the center drum with stainless steel band straps and hardware.
- B. Filter panels (filter media) shall be mounted on the sides of the disc segments. The filter panels shall consist of plastic frames with PET monofilament filter fabric attached to the frames. Systems with pleated media, corrugated media, pile cloth media, or stainless steel media shall not be acceptable. Stainless steel media shall also not be accepted due to its susceptibility to corrosion and short life span caused by mechanical fatigue failure. Each panel shall be equipped with a rubber gasket integral to the media frame to provide a watertight seal between the filter panels and disc segments. The panels will be held in place by a top cover.
- C. Nominal media pore size shall not exceed 10 microns. Filtration systems utilizing media greater than 10 microns shall not be accepted.
- D. The replacement of filter media must be possible from outside the filter tank by unfastening two bolts, removing the retaining cap and sliding panels from filter frame.
- E. Filter discs must be constructed of modular segments and each disc segment must include a substantially open area along the length of the radial support to allow the liquid to flow from one section to the other as the discs are rotated.

2.4 SUPPORT FRAME WITH ENCLOSED TANK AND COVER

- A. The support frame and tank shall be one piece, structural welded, 304 stainless steel. Onto the support frame shall be welded 304 stainless steel base plates for back-wash pump, drive gear box, and center shaft bearing house. Tank thickness shall be a minimum of 1/8" thickness. Carbon steel construction shall not be acceptable in order to minimize maintenance efforts associated with corrosion and painting.
- B. The filter shall be furnished with a gel coated GRP (Glass fiber Reinforced Plastic) lockable cover as a means to prevent algal growth and to eliminate the presence of filter flies. One side of the cover shall have a single access lid that can be opened to allow operator access to all of the discs and backwash nozzles. The lid must include an assembly that provides the following: mechanical advantage to assist personnel in lifting the lid, full support of the

lid when in the open position, and mechanical resistance/support when lowering the lid. This feature is important for ease of access and improved operator safety. Designs that incorporate removable lids, sliding lids, or propped lids (without mechanical lifting mechanism) will not be accepted.

- C. Anchor bolts shall be provided by the contractor.

2.5 BACKWASH CLEANING SYSTEM

- A. The Discfilter shall be equipped with a single oscillating back-washing system with non-motorized moving spray headers for efficient cleaning of the filter cloth and for reduction of the consumption of backwash water. All panels shall receive 110 psi pressure backwash spray. Systems with separate solids removal and backwash discharge systems shall not be acceptable.
- B. The backwash system shall be comprised of 304 stainless steel backwash spray headers installed between the discs. The spray headers shall oscillate in an upward and downward motion during drum rotation. The spray header oscillation shall be operated by a cam system that is connected to the drum drive. Systems with stationary spray headers or with separate drive motors to oscillate the spray headers shall not be acceptable. Each header shall have flat pattern spray nozzles for each disc side. The spray nozzles shall consist of ceramic nozzle tips, mounting cap for quick removal, nozzle body and seals. The nozzle system shall be Spraying Systems Co., Quick TeeJet, or approved equal. The replacement of spray nozzles must be possible from outside the filter tank. A swivel joint shall allow the spray header manifold to rotate out for nozzle access without disassembly of the manifold or headers.
- C. Each filter shall have one externally mounted low-pressure Grundfos Model MTR10-22/6 immersible centrifugal pump for the backwash system and shall be installed at the factory. The backwash pump shall be of the vertical multi-stage design with the motor mounted directly to the top of the pump. The pump discharge fitting shall be 2" NPT. The pump discharge chamber, motor stool and pump shaft coupling shall be constructed of cast iron. The impellers, pump shaft, diffuser chambers, outer discharge sleeve and impeller seal rings or seal ring retainers shall be constructed of stainless steel. The impellers shall be secured directly to the pump shaft by means of a splined shaft arrangement. Pump shall be equipped with an O-ring, fixed seal driver mechanical seal assembly with Cemented Tungsten Carbide/Cemented Tungsten Carbide seal faces and FKM rubber O-rings mounted in stainless steel components. The motor shall be supplied by Grundfos integral with the pump. The motor shall be standard efficiency rated for 5 HP, 460V, 3 phase, 60 HZ operation and shall be NEMA C face design, Totally Enclosed Fan Cooled (TEFC) with a minimum service factor of 1.15. Filtered water shall be discharged from the pump to the backwash header piping constructed of 304 stainless steel. A ball valve and pressure gauge shall be installed in the backwash header piping downstream of the pump in order to regulate to the desired nozzle pressure.
- D. The Discfilter shall be equipped with a backwash-collecting trough for removing solids. The trough shall be constructed of 304 stainless steel. The trough length shall be sufficient to capture reject water from all filter discs. The trough shall be elevated to prevent contact with the influent stream. The reject water shall leave the trough by gravity via the backwash outlet connection. Piping from the trough to the outlet connection shall be 304 stainless steel connected with stainless steel shielded, flexible elastomeric

PVC couplings. The backwash outlet connection shall be a 6 inch ANSI loose flange. Systems with separate solids removal and backwash discharge systems shall not be acceptable.

2.6 DRIVE MECHANISM

- A. The drive assembly shall consist of a single gearmotor, polyamide drive sprockets, and investment cast stainless steel drive chain. The chain link and barrel material shall be 15-5 PH stainless steel. The chain pin material shall be 17-4 PH stainless steel material. Link, pin, and barrel hardness shall be 415 BHN. The chain shall have an ultimate strength of 35,000 lb and an ASME working load of 4,500 lbs. Manufacturing method, material type, hardness, strength, and working load requirements are essential to provide durability, abrasion resistance, corrosion resistance, and long life for this application. Alternative chain casting type, materials, hardness, strength, and working load specifications shall not be allowed. Assemblies utilizing belt drives shall not be acceptable due to risk of stretching and failure when driving loads of this magnitude.
- B. The drive assembly shall also provide oscillation of the backwash spray headers without the need for a separate drive motor in order to provide for efficient cleaning of the filter media with minimal water usage and minimal energy usage. Systems with stationary spray headers and/or separate drive motors shall not be acceptable for use.
- C. The gear motor shall be SEW Eurodrive shaft mounted helical worm gear with integral standard AC induction motor, SEW gear motor model S77DRE90M4. The drive motor shall be provided integral to the Discfilter unit and shall be installed at the factory. The gear ratio shall be 189.09. The motor shall be standard efficiency TEFC rated for 1.5 HP, 460V, 3 phase, 60HZ operation.
- D. Reducer design end rating shall equal or exceed AGMA requirements. Speed reducers shall be selected for not more than AGMA class I service.

2.7 FLOW BYPASS

- A. A bypass chamber shall be supplied integral to the filter unit to allow for diversion of unexpected high inlet water level without contamination of the filtered effluent. The bypass chamber shall be at the inlet side of the filter unit. The bypass connection shall be a 14 inch ANSI loose flange.

2.8 DISCFILTER SPARE PARTS

- A. The following spare parts will be supplied: 4 Backwash Spray Nozzles, 4 Filter Panels. Parts inventory shall be based in the United States.

2.9 CONTROL PANEL AND OPERATION

- A. The Discfilter operation shall be managed by an automated control system. Programmable Logic Controller (PLC) shall be Modicon M340 w/ BMX P342020 Processor with no exceptions.
- B. The control system is an integral part of the Discfilter system and shall be provided in a UL labeled, NEMA 4X 304 Stainless Steel enclosure. Each Discfilter unit shall include a control system which shall consist of a programmable controller, fused main disconnect, control transformer, branch circuit breakers, IEC motor starter/protector, hand-off-automatic switches, and liquid level sensor relay for initiating backwash. The power feed to the control panel shall be 480VAC 60Hz 3 phase, control voltage shall be 120VAC

60 Hz 1 phase.

- C. The control panel enclosure shall meet the following criteria, 304 Stainless Steel, seams continuously welded and ground smooth, seamless foam-in-place gasket for watertight dust-tight seal, door opens 180°, quarter turn latches opened or closed using a screw driver, and NEMA Type 4X , UL Listed 4X. Saginaw SCE42EL3612SSLP or approved equal.
- D. The main disconnect shall be enclosed in the control panel, with a handle mechanism extending through the door. The main disconnect shall be a fused disconnect rated for 30 Amps 3-Pole. The main disconnect shall be composed of three primary components; 30A fused disconnect, extension shaft, NEMA 4X operating handle. Square D 9421 NC3 fused disconnect, 9421 NW2 disconnect handle and 9421 NS36 disconnect shaft or approved equal.
- E. Each filter shall be equipped with an adjustable water level sensor located in the influent chamber for the purpose of backwash initiation. The high level sensor shall be a height adjustable PVC encapsulated 316 SS Rod with a diameter of 5/16" and length of 12", and shall include a PVC encapsulated copper conductor with control wire connected at top of probe. The installing Contractor is to provide wiring and conduit to connect the level sensor to a liquid level relay located in the Discfilter Control Panel. The liquid level relay is activated when the level sensor comes in contact with water in the influent chamber. The liquid level relay for backwash shall be SSAC LLC44A5A with relay base or approved equal.
- F. Each filter unit will be supplied with a high high level sensor. The device used for the high high level sensor will be the same part(s) and number used for the high level sensor. The high high level sensor will be mounted in such a way as to insure that the device indicates when the water reaches a height above the backwash level sensor and has entered a high level scenario. When the high high level sensor is activated, it will activate a relay inside the control cabinet and a pilot light on the front of the control panel will illuminate. The pilot light will be labeled "Discfilter High High Level". The high high level relay will have a spare set of normally open dry contacts available for monitoring. The liquid level relay shall be SSAC LLC44A5A with relay base or approved equal.
- G. Each filter unit will be supplied with a BW pump dry run protection level sensor. The device used for the dry run protection sensor will be the same part(s) and number used for the backwash level sensor. The sensor will be mounted in such a way as to insure that the device indicates when the water reaches a height below the effluent weir that would risk pump dry run. When the sensor is activated, it will activate a relay inside the control cabinet to prevent running the pump. The level relay will have a spare set of normally open dry contacts available for monitoring.
- H. Field wiring terminal blocks for the Discfilter Control Panel will be din rail mountable, individually numbered, rated for 600 Volts 30 Amps. The field wiring terminal blocks shall be Phoenix UTTB4 3044814 or approved equal.
- I. Motor wiring terminal blocks for the Discfilter Control Panel will be din rail mountable, individually numbered, rated for 600 Volts 65 Amps. The field wiring terminal blocks shall be Phoenix UT10 3044160 or approved equal.
- J. A motor starter located in the Discfilter Control Panel will manage the start/stop of the Backwash Pump motor. The motor starter will be sized

appropriately to match the requirements of the Backwash Pump motor. The motor starter will be an IEC starter, rated 0.1 ~ 25Amps @ 460VAC 3 phase, ½ ~ 20HP @ 460VAC 3 phase, rotary handle operator, visible trip indication, protection by overload, short circuit, undervoltage and shunt. The motor starter will be equipped with auxiliary contacts for monitoring and control. The IEC motor starter shall be Square D TeSys U or approved equal.

- K. A VFD located in the Discfilter Control Panel will manage the start/stop of the Filter Drum motor. The VFD will be sized appropriately to match the requirements of the Filter Drum motor. The VFD will be equipped with an integral keypad display for VFD interface and configuration, use sensorless flux vector technology, use with 3-phase asynchronous motors, monitoring and control inputs and outputs, motor and drive protection. The VFD will not require input/output filters or harmonic testing. The VFD will be hardwired for control and monitoring and will not require any communication protocols such as Ethernet, DeviceNet, and Modbus. The VFD shall be Square D Altivar 312 or approved equal.
- L. The control panel shall have external pilot lights mounted on the door indicating run status of the filter unit and backwash pump. The pilot lights will be NEMA 4X, 120VAC, standard (no push to test) and 30mm. The pilot lights shall be Square D 9001 SKP1x31 or approved equal.
- M. The control panel shall have external selector switches (Hand-Off-Automatic). The selector switches will be NEMA 4X, 30mm, non-illuminated, manual return and equipped with contact blocks. The selector switches shall be Square D 9001 SKS43BH2 or approved equal. The control panel selector switches will allow the drum drive and backwash motor to be operated in Hand mode.
- N. The completed control panel shall be UL labeled per UL508A. The completed control panel will be factory tested and configured.
- O. The Programmable Controller will perform logic, timing, counting and real time clock operations. The Programmable Controller will be programmed using software to allow configuration of a downloadable program featuring input instructions, output instructions, timer instructions, counter instructions and counter instructions. The Programmable Controller will be equipped with a embedded 10/100 Base –T EtherNet/IP Port as well as USB programming port. The Programmable Controller will be equipped with a minimum fourteen 14 Digital Inputs (120VAC) and ten (10) Relay Outputs, additional I/O can be added via I/O expansion modules.
- P. The Control System will be supplied with one Operator Interface. The Operator Interface will be capable of communicating with the Programmable Controller. The Operator Interface will be capable of displaying text and graphics, allow operator setpoint entry, and provide system status display. The Operator Interface will be a color touchscreen display, minimum four (4) inch diagonal, 10/100 Base-T Ethernet Port and mount to the panel front.
- Q. Control system will also allow for continuous back washing in HAND mode.
- R. The Contractor is responsible for providing Interconnecting wiring and/or conduit between the supplied control panel and Discfilter equipment. The Contractor shall provide any junction or pull boxes or any other like device needed to supply the interconnecting wiring.

- S. All field connections/terminations to the supplied control panels, the Discfilter equipment and between the Discfilter and supplied control panels shall be the responsibility of the Contractor.

PART 3 EXECUTION

3.1 GENERAL

- A. Contractor shall install the Discfilter system per the Equipment Manufacturer's directions and the drawings. The Contractor will provide all supports and anchoring required to install the Discfilter unit. The plumbing/interconnecting piping, electrical connections, grating and handrails shall be provided by the Contractor as detailed on the drawings and specifications including winterization such as piping insulation or heat tracing/heat tape. The Equipment Manufacturer will provide adequate protection of the equipment for shipment to the project site. Installation instructions will be provided that specifically outline installation of the Discfilter. Lifting instructions will be provided to assist the Contractor.

3.2 FIELD SERVICES

- A. The Equipment Manufacturer shall furnish the services of a factory-trained representative based in the United States and employed by the manufacturer, for a minimum of four (4) working days and two (2) separate trips. These two trips shall consist of one (1) trip to monitor the installation and one (1) trip for start-up, instruction of plant operating personnel, and operation and maintenance training. The Contractor will provide to the Equipment Manufacturer a minimum prior notice of three (3) weeks in order to schedule these services.

PART 4 WARRANTY

4.1 GENERAL

- A. The Equipment shall materially conform to the description in this Specification and the Contract Documentation and shall be free from defects in material and workmanship. Warranty periods are 1 year from acceptance, whichever occurs first.

END OF SECTION

PART 1: GENERAL

1.1. SCOPE OF WORK

- A. The work performed under this Section shall include providing all labor, materials, tools, equipment and related items necessary to furnish and install a complete prefabricated steel package wastewater treatment system ready for operation as specified herein and as shown on the Plans.
- B. The complete system shall include screening, flow equalization, aeration, digestion, clarification, disinfection, and all necessary equipment for efficient plant operation.
- C. The wastewater treatment system shall be factory assembled, so far as possible, with all piping and controls, all surfaces shall be factory painted. Wastewater treatment system shall be supplied by one manufacture.

1.2. RELATED SPECIFICATIONS

- A. Drawings and all provisions of the Contract Documents shall apply to this Section.
- B. City of Austin Standard Specifications
- C. 01300 - Submittals
- D. 01660 - Facility Startup/Commissioning
- E. 01730 - Operation and Maintenance Manuals
- F. 16010 - Electrical General Provisions
- G. 16172 – Electrical Motor 200 HP and Less
- H. 16200 – Wire Conductors Cables – 600V and Less
- I. 16205 – Wire and Cable Tagging
- J. 16250 – Boxes and Cabinets
- K. 16263 – 120 VAC Uninterruptible Power Supplies
- L. 16300 – Wiring Devices
- M. 16700 – Common Control Panel Requirements
- N. 17000 - Packaged Systems PLC Programming Criteria
- O. 17100 - Process Control and Instrumentation Systems
- P. 17510 - Manufacturer’s PLC-Based Control System Hardware
- Q. 17520 - Manufacturer’s PLC-Based Control System Software

1.3. APPLICABLE STANDARDS AND SPECIFICATIONS

- A. TCEQ 30TAC Chapter 217 – Design Criteria for Domestic Wastewater Systems
- B. TPDES Permit No. WQ0010543014
- C. All pump/motor assemblies shall be designed, constructed, and tested according to the latest applicable sections of AFBMA, AISI, ANSI, ASTM, Hydraulic Institute, IEEE, NEC, NEMA MG-1, NFPA, and UL standards. Requirements listed in the drawings and specifications are considered additional to the standard requirements listed above.

1.4. ACCEPTABLE MANUFACTURERS/EQUIPMENT

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- A. Acceptable manufacturers are, Legacy Environmental, AUC Group or approved equal.
- B. PLC shall be Modicon M340 w/ BMX P342020 Processor with no exceptions.
- C. HMI shall be a 15 Magelis XBT-GT-7340 With no exceptions.

1.5. QUALIFICATIONS

- A. The manufacturer of specified equipment must have a minimum of ten (10) year's active experience in the design and manufacturing of similar wastewater treatment equipment, and upon request, furnish supporting evidence.

1.6. SUBMITTALS

- A. Submittals - The Contractor is to submit the following information for approval by the Engineer and Owner prior to start of fabrication of the wastewater treatment system. Drawings and design calculations shall be sealed by a Professional Engineer Registered in the State of Texas.

a) Shop Drawings: Submit for review the following at a minimum:

- i) Certified Drawings - Certified general arrangement drawings showing all important details and materials of construction, dimensions, loads on supporting structures and anchorage location.
- ii) Product Data - Descriptive literature, bulletins, and/or catalogs of the equipment.
- iii) Electrical Schematics for all control equipment to be furnished

b) Design Calculations

- i) Process calculations
- ii) Equipment sizing and selection
- iii) Hydraulic grade line

c) Performance Data - These parameters shall be verified by data presented from successful operating installations. The submittal shall include data from a minimum of five (5) successfully operating installations that verify the experience of the Manufacturer. Data shall include performance verification of the annual average influent flow characteristic and annual average effluent flow characteristics.

d) Certificate as Warranty

B. Operation and Maintenance Manuals

The contractor shall submit the following information for approval by the Engineer and Owner prior to equipment start-up.

- a) Assembly, installation, alignment, adjustment, and checking instructions.
- b) Lubrication and maintenance instructions.
- c) Guide to "trouble shooting".
- d) Parts list and predicted life for parts subject to wear. Parts list should also list part numbers.

- e) Recommended spare parts list.
- f) Certified dimensional drawings.
- g) Sectional Drawings showing arrangement of internal components.
- h) Certified performance
- i) All information supplied in the submittals.

C. Certified Report

Furnish 3 copies of a report prepared by the Manufacturer's technical representative certifying satisfactory installation, operation, and in-service placement of units.

1.7. WARRANTY

A. Warranty shall begin upon SUBSTANTIAL acceptance of the wastewater treatment system.

- a) The treatment unit Manufacturer shall warrant the entire unit against faulty or inadequate design, improper assembly and erection, defective workmanship and materials, and leakage, breakage, or other failure.
- b) The Manufacturer shall furnish a written warranty agreeing to furnish and install FOB Austin, Texas at his own expense, any part of the treatment system proving defective within twelve (12) months of the acceptance of the unit.
- c) The Manufacturer shall also provide a full parts and labor warranty for the systems motorized components, and its accessories for one year, and an extended pro-rated 5 year warranty.

1.8. MANUFACTURER SERVICES

A. Furnish the services of the Manufacturer's technical representative to check installation, assist Contractor in field testing, start-up testing, making adjustments, and instructing operators and contractor in maintenance and operation procedures.

PART 2: PRODUCT

2.1. GENERAL

Detailed in this specification are the design, construction and testing requirements for prefabricated wastewater treatment systems.

2.2. DESIGN STANDARDS

A. Parameters - The wastewater treatment system shall be of the activated sludge type with the following parameters:

- a) Design (Average flow): 0.1 MGD
- b) Maximum (2 Hour Peak flow): 0.4 MGD

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The plant shall be designed to handle average daily flows fluctuating over a range of 60 to 100 percent of design flow.

- B. Performance – The performance of wastewater treatment system shall be based on composite sewage samples of the average daily flow with the following influent characteristics:
- a) Influent Characteristics
 - i) 280 mg/l BOD5
 - ii) 280 mg/l TSS
 - iii) 50 mg/l NH₃-N
 - iv) 8 mg/l P
 - b) Effluent Qualities:
 - i) 5 mg/l BOD5
 - ii) 5 mg/l TSS
 - iii) 2 mg/l NH₃-N
 - iv) 1 mg/l P
- C. Design Criteria - All components of the proposed Wastewater treatment facility must comply with TCEQ Chapter 217 - Design Criteria for Domestic Wastewater Systems.
- a. Flow Measurement - wastewater treatment facility must include a means of effluent flow measurement with less than 10% error, or the manufacturer's error tolerance, whichever is less, throughout the expected range of flows.
 - b. Preliminary Treatment
 - i) Headworks – Per specification S11330, to be installed so that manual screens are still operational.
 - ii) Screenings and Debris Handling - A screening device must have a minimum storage capacity of one day of screenings and debris. A container for screenings and debris must be fully covered with a tight-fitting cover A storage area for screenings and debris must drain to the headworks of the wastewater treatment facility or the influent lift station and must include runoff control.
 - iii) Coarse Screens - An inlet bar screen shall be provided at the influent port, to remove any unusually large solids from the incoming raw sewage. Manual bar screens shall have clear openings between bars must be at least 0.5 inch but not more than 1.0 inch. Manual bars shall be sloped from 30 to 60 degrees to permit easy cleaning of accumulating debris. A drying deck shall be furnished for drying this debris.
 - iv) Flow Equalization Basin – If included in the package plant, the flow equalization basin must include an aeration system sized to maintain a dissolved oxygen level of at least 1.0 milligram per liter (mg/l) throughout the flow equalization basin. Flow equalization basin must include a mixing system sufficient to prevent solids from settling. Size of a flow equalization basin must be based on diurnal flow variations and the size and capacity of downstream process units. The submittal must include the calculations justifying the size of a flow equalization basin.

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- c. Aeration Basin
 - i) Contractor shall provide one Hach, SOLITAX sc Suspended Solids (SS) and Turbidity Analyzer with sc200 controller and stainless steel ts-line sc Solids and Turbidity Sensor with wiper and LDO® Model 2, Optical Process Dissolved Oxygen Probe. Or approved equal. Analyser shall include deck mount kit, sunshade and necessary power cord. Analyzers shall be located approximately 1/3 to 1/4 of the basin flow path from the influent side.
 - ii) Aeration basin must be designed to maintain a minimum dissolved oxygen concentration of 2.0 milligrams per liter (mg/l) throughout the aeration basin at the maximum diurnal organic loading rate specified herein.
 - iii) Basin and Equipment Sizing – Sizing shall meet TCEQ Chapter 217 design requirements. The submittal must include the calculations justifying the size of the basin.
 - iv) Freeboard – aeration basin must have a minimum freeboard of 18 inches at the peak flow.
 - v) Drains - basin must have the capability of draining completely.

- d. Mechanical Clarifier -
 - i) Clarifier must be sized per TCEQ Chapter 217 requirements. The submittal must include the calculations identifying the size of the unit.
 - ii) A clarifier must have an inlet valve or gate. Inlet must provide uniform flow, stilling velocity shall not exceed 0.15 feet per second at peak flow.
 - iii) Scum removal must have scum baffles and a means of collecting and disposing of scum. Scum shall be discharged via gravity to the wastewater treatment plant drain line as shown on plans.
 - iv) Skimmer shall be mechanical
 - v) Effluent Weir – Shall not cause turbulence or a localized vertical flow velocity that would pull solids over the effluent weir in the primary clarifier and must be level, and designed to be adjustable for re-leveling. Effluent weir loading must not exceed 20,000 gallons per day at peak flow per linear foot of weir length
 - vi) Basin Sizing – Sizing shall meet TCEQ Chapter 217 design requirements. The effective volume includes all liquid above the sludge blanket. For a cone bottom tank, the top of the sludge blanket is considered to be at the top of the cone. The design of a flat bottom tank must include additional depth for a sludge blanket with a thickness of 3.0 feet.
 - vii) Side Water Depth. For a secondary clarifier, the side water depth is defined as the water depth from the top of the cone in a cone bottom tank to the water surface; or the water depth from 2.0 feet above the bottom of a flat bottom tank to the water surface. A hopper bottom clarifier is prohibited. The minimum side water depth for a clarifier with a mechanical sludge collector is: 10.0 feet if the surface area is equal to or greater than 300 square feet; and 8.0 feet if the surface area is less than 300 square feet.
 - viii) Freeboard - A clarifier must have a minimum freeboard of 12 inches at the peak flow.
 - ix) Drains - clarifier must have the capability of draining completely.

- e. Solids Management.
 - i) Solids Recycling and Monitoring - Return sludge system must operate as designed in all flow conditions. A monitoring and control system must provide a means to control return and waste sludge flows from clarifier, to

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control return sludge flows into aeration basin, to meter return sludge flows, and to measure waste sludge flows.

- ii) Solids Wasting - Solids management system must be able to store and process the waste activated sludge under all flow conditions.
 - iii) Return Activated Sludge (RAS) Pump Design. - Centrifugal sludge pump must have a positive suction head, unless the pump is self-priming. An airlift pump must comply with requirements of Chapter 217.162 (relating to Air Lift Pump Design). RAS system must have sufficient pumping units to maintain the maximum design return pumping rate with the largest single pumping unit out of service.
 - iv) Waste Activated Sludge Pump Design - A waste activated sludge pumping system requires at least two pumping units and must be sized to prevent excessive solids accumulation in the clarifiers.
 - v) Sludge Piping System - The design of a sludge piping system must accommodate cleaning and flushing. The design of a sludge piping system must accommodate a minimum velocity of 2.0 feet per second at the maximum wasting rate to prevent solids from settling. The velocity in a sludge piping system must prevent scouring. Sludge pipe must have a minimum diameter of 4.0 inches.
- f. Process Control.
- i) Solids Retention Time Control - Treatment facility design must include equipment for a wastewater treatment facility operator to control the solids retention time (SRT) in the aeration tanks by wasting a measured volume of surplus activated sludge. The submittal and the operation and maintenance manual must provide the formulas used for determining the SRT.
 - ii) Aeration System Control - Aeration system control must regulate the total amount of air supplied and how air is distributed to the aeration tanks. In order to conserve energy, a wastewater treatment facility design may provide the operator with the ability to adjust the airflow in proportion to the oxygen demand of the wastewater. If an adjustable type of airflow control is installed, the aeration equipment must be manually adjustable over the entire range of oxygen demands and must maintain solids in suspension.
 - iii) Electrical and Instrumentation Systems - All three-phase motors must have phase failure protection. Instrumentation and monitoring equipment must have power surge protection. Facility must conduct fault monitoring to notify the operator of high wet well level, power interruption, disinfection failure, blower failure, clarifier failure, return sludge pumping failure. A telemetry with battery back-up or supervisory control and data acquisition system with battery backup must be able to notify an operator of a malfunction

2.3. CONSTRUCTION AND MATERIALS

- A. Coarse Screens – A coarse screen and related structures must be designed to resist the effects of a corrosive environment, including long term exposure to hydrogen sulfide.
- B. Tank Construction - All tank vessels shall be fabricated of one-fourth inch structural grade steel plated; ASTM A-36 ¼" minimum thickness joined by arc

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- welding with fillets of adequate section for the joint involved. All walls shall be continuous and watertight and shall be supported by structural reinforcing members where required. Fabrication and erection shall conform to the appropriate requirements of "AISC Specification for Buildings". Connection shall conform to the requirements of the American Welding Society's Code.
- C. Piping - All sludge & scum return piping shall be schedule 40 ASTM A-53 steel. All Diffuser drop piping shall be schedule 40 ASTM A-53 steel pipe. Fittings, fasteners and hardware shall be 300 series stainless steel.
 - D. Air Diffusers - shall be medium bubble 'membrane' diffuser Mooers Flexcap or approved equal. Each diffuser drop assembly shall be equipped with an air regulating and/or shutoff valve, a disconnecting union and a diffuser bar with non-clog air diffuser nozzles. Minimum air velocity shall be maintained to insure sufficient velocity for self-cleaning. The oxygen transfer capacity of each diffuser shall be such that an adequate supply of oxygen will be maintained in the aeration chamber to meet treatment requirements of the design sewage load.
 - E. Headworks – Wastewater treatment system shall include headworks system per Section 11330, Automatic Screen
 - F. Coating and Corrosion Control - All vessels to be painted shall be properly prepared in a workmanlike manner to obtain a smooth, clean and dry surface. All rust, dust, and mill scale as well as other extraneous matter, shall be removed by sandblasting to SSPC-6 (commercial sandblast) on outside of vessel surfaces and to SSPC-10 (near-white blast) on inside of vessel surfaces. Within the time allowed by the paint manufacturers recommendations the inside of the tanks shall be coated with one (1) coat of Tnemec series 46H-413 Coal Tar Epoxy, 8-10 mils total dry film thickness or two (2) coats of elf priming Hi-Build Epoxy at 6 to 8 mils total dry film thickness each. All Exterior vessel surfaces will be coated with one (1) coat of Tnemec series 46H-413 Coal Tar Epoxy, 8-10 mils total dry film thickness or two (2) coats of self-priming Hi-Build Epoxy at 6 to 8 mils total dry film thickness each. Any painted surface damaged during installation shall be recoated.
 - G. Foundation – Foundation shall be compacted crushed stone as specified in geotechnical report and shown on construction drawings. Foundation must be level within tolerances of 1/2" per each 10'-0" of width and within 1/4" per each 10'-0" of length. Anchor system to be provided per manufacturer recommendations.
 - H. Disinfection Chamber, not required for this package plant
 - I. Blowers/motor units Motors \geq 25 hp should have space heaters and ETMs per specification 16172
 - J. Electrical Controls/Console – Electrical control panels shall be installed within a NEMA 4X fiberglass weatherproof enclosure with locking clasp. Any mounting hardware shall be stainless steel. Controls shall be mounted to a removable sub-panel within the enclosure and shall be wired and spaced in accordance with the latest National Electrical Code. The control console shall be supplied with a properly sized magnetic-circuit breaker to act as the main disconnects for the

control console. Magnetic starters with overload protection shall be supplied for all blower motor units. An electrical alternator shall be furnished to alternate the operation of each pump. The alternator shall be provided with a manual selector switch to allow manual selection of the lead pump if desired.

- K. Service Walkway - service walkway shall be provided for the service areas to service the plant equipment. Grating panels or bar grating shall be constructed of 18 gauge, galvanized sheet steel with maximum yield strength of 37,000 PSI. Walkways shall be so supported as to have a safe uniform load carrying capacity of 50 pounds per square foot. All walkways shall have 4" kickplates. A 45 degree access stairway shall be provided leading to the walkway for the service area to service the plant equipment. Stair treads shall be capable of withstanding a uniform load of 100 PSF or a concentrated load of 300 lbs. on an area of 4 sq. inches located in the center of the tread, whichever produces greater stress. Hand-railing shall be affixed to the stair runners, and shall be constructed from 1-1/2" OD schedule 40 welded pipe. The railing shall consist of two rails supported by posts on spans not to exceed 8'-0" O.C. the top rail shall be 42" from the walkway surface, and the middle rail to be 18" below. Construction shall be welded, with four-bolt stanchion connection to the tank surface at each post. Provide for water to drain from the railing system hollow sections by drilling weep holes at bottom locations.

PART 3: EXECUTION

3.1 STORAGE AND HANDLING

At all times Contractor shall take such precautions as may be necessary to properly protect all materials and equipment from damage from the time of delivery until the completion of the work.

All equipment must be boxed, totally enclosed with plastic sheet covering and crated, or otherwise completely enclosed and protected during shipment, handling, and storage.

All equipment shall be protected from exposure to the elements and shall be kept thoroughly dry at all times.

Painted surfaces shall be protected against impact, abrasion, discoloration, and other damage during shipment.

All painted surfaces which are damaged prior to acceptance of equipment shall be re-painted to the satisfaction of the Engineer.

3.2 FACTORY INSPECTION AND TESTING

The equipment specified herein shall be factory assembled as far as practical to verify that all mating parts can be field assembled. All mating parts shall be trial fit and match marked. The Manufacturer shall submit certification of shop trial assembly and photographs of assembly before shipment. The Contractor shall be given the opportunity to witness the shop assembly.

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Shop inspection shall be performed by a qualified inspector and certified by the Manufacturer. The inspection shall be documented and all deficiencies noted, corrected, re-inspected and final completion formally authorized. Final shipment authorization shall be by the Manufacturer to ensure completion of all fabrication, assembly, and inspection requirements. Inspection records and evidence of inspector qualification shall be submitted to the Owner upon request.

3.3 FIELD INSTALLATION AND TESTING

Field Testing - At the time the wastewater treatment system is filled with water, and all power connections have been completed, and all equipment is approved for service, the contractor shall provide the services of a representative of the manufacturer who shall instruct the owner's representative in the proper operation and maintenance of the wastewater treatment system, including instructions in conducting all required operational tests.

Clarifier Operation Tests: The mechanism shall be operated in a dry tank for a minimum of 4 continuous hours before flow is allowed to enter the system. There shall be no binding, jerky, or unusual motion exhibited during this run in period. Motor amperage shall be checked at least hourly for any unusual or higher than normal figures. After the unit has successfully passed this initial test, flow shall be introduced into the tank and the same 4 hour observation test run. If the unit should fail under any of these conditions, the test shall be halted and the problem corrected. If, after several attempts, the unit does not successfully pass the field test, the faulty portion of the equipment shall be repaired or replaced and the test re run.

3.4 START-UP

Items below are to take place in conjunction with Specification 01660 Facility Startup/Commissioning

- A. Commission Agent shall:
 - a. Develop a working relationship with the contractor's project engineer and equipment suppliers.
 - b. Study construction schedules and plant layouts.
 - c. Initiate start-up planning and scheduling.

- B. Review Standard Operating Procedures (SOP) to include:
 - a. Shift schedules.
 - b. Laboratory sampling and testing schedules.
 - c. Plant record keeping procedures.
 - d. Areas of responsibility.
 - e. WWTP and ancillary equipment

- C. Hold initial site meeting to coordinate start-up schedule with construction schedule.

- D. Inventory and gather equipment manuals, tools, and consumables following the plant operation and maintenance manual and the equipment manufacturer's recommendations.

- E. Conduct Dry-Run Inspection to ensure that:
 - a. The installation of the equipment is checked and corrected if necessary.

- b. The construction of the plant structures is checked and corrected if necessary.
- F. Conduct On-Site Dry-Run Operator Training in:
 - a. The operation and maintenance of equipment and tools.
 - b. The laboratory sampling and testing procedures.
 - c. The 'plant layout' and start-up responsibilities.
 - d. The plant safety.
- G. Conduct Wet-Run Inspection of :
 - a. The equipment for proper operation.
 - b. The piping and valves for lea.
 - c. The laboratory testing equipment.
 - d. The monitoring and flow measuring instruments.
- H. Conduct On-Site Wet-Run Operator Training, Instruct personnel in:
 - a. The operation of the equipment under load.
 - b. The capabilities and limitations of the equipment.
 - c. Conduct tours of similar plants.
 - d. Institute buddy training with other plants in the area.
 - e. Institute education from Federal and State training programs.
- I. Plant start up with water
 - a. At the time the wastewater treatment system is filled with water, and all power connections have been completed, and all equipment is approved for service, a representative of the manufacturer shall instruct the owner's in the proper operation and maintenance of the wastewater treatment system, including instructions in conducting all required operational tests. The manufacturer's representative shall furnish at this time, a service manual on the equipment installed within the wastewater treatment system.

3.5 OPERATION AND MAINTENANCE TRAINING

- a. A field training course shall be provided for designated operating and maintenance staff members. Training shall be provided for a total period of 8 hours during normal working hours and cover all aspects from the operations and maintenance manual.

END OF SECTION



**CITY OF AUSTIN
AUSTIN WATER UTILITY**

**CITY CODE CHAPTER 2-9A
MBE/WBE PROCUREMENT PROGRAM
CONSTRUCTION**

VOLUME 4 of 4

**Taylor Lane 0.1 MGD Wastewater
Treatment Plant Project**

**IFB Number: IFB6100 CLMC600
CIP PROJECT NUMBER: 3353.095
FDU NUMBER: 4570-2307-4876**

**CITY OF AUSTIN
Austin Water Utility
625 East 10th Street, Suite 715
Austin, TX 78701**

September 27, 2016

CITY OF AUSTIN



CITY CODE CHAPTER 2-9A MBE/WBE PROCUREMENT PROGRAM CONSTRUCTION

Project Name:

Project/Solicitation Number:

Date:

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MBE/WBE GOALS

Annual/Project Participation Goals:		Annual/Project Participation Subgoals:	
MBE	%	African American	%
WBE	%	OR Hispanic	%
		Asian/Native American	%
		WBE	%

OVERVIEW

This document should be read in conjunction with the City of Austin’s Minority-owned and Women-owned Business Enterprise Procurement Program Ordinance for Professional Services (Chapter 2-9A of the Austin City Code) and the Small and Minority Business Resources Department (SMBR) Rules. The definitions contained in Chapter 2-9A apply to this document. The City Code and Rules are amended from time to time and the Bidder is responsible for ensuring they have the most up to date version. The City Code and Rules are incorporated into this document by reference. Copies of Chapter 2-9A and SMBR Rules may be obtained online at <http://www.austintexas.gov/department/small-and-minority-business/about> or from SMBR, 4201 Ed Bluestein, Austin, Texas 78721 (512) 974-7600.

Firms or individuals submitting responses to this Request for Bid agree to abide by the City’s Minority-owned and Women-owned Business Enterprise (MBE/WBE) Procurement Program and Rules. The City’s MBE/WBE Program is intended (1) to promote and encourage MBEs and WBEs to participate in business opportunities with the City of Austin; (2) to afford MBEs and WBEs an equal opportunity to compete for work on City contracts; and (3) to encourage contractors to provide subcontracting opportunities to certified MBEs and WBEs by soliciting such Firm for subcontracting opportunities. The City of Austin and its contractors shall not discriminate on the basis of race, color, national origin, disability, or gender in the award and performance of contracts.

The City encourages Bidders to achieve the MBE/WBE participation goals and subgoals for this contract. However, Bidders may comply with the City Code and Rules without achieving the participation goals so long as they make and document Good Faith Efforts that would allow MBE and WBE participation per Section 2-9A-21 of the City Code and Section 9.1 of the Rules. Bidders that do not meet the project’s goals and subgoals are subject to Good Faith Efforts review.

Prior to the due date and time specified in the City’s solicitation documents, all Bidders (including those Firms certified as MBE/WBEs) shall submit: (1) an *MBE/WBE Compliance Plan* (Appendix A); and (2) if it is anticipated the project goals will not be met, all appropriate documentation to demonstrate Good Faith Efforts to meet the project goals. Any questions regarding preparation of the *Compliance Plan* should be directed to SMBR at SMBRComplianceDocuments@austintexas.gov. Such contact will not be a violation of the Anti-Lobbying Ordinance.

The City has implemented Anti-Lobbying Ordinance (Chapter 2-7 of the Austin City Code). Under Chapter 2-7, there is a “no-contact” period from the date the City issues a solicitation until the contract is executed. During the “no-

contact” period, a person responding to a City solicitation can speak only to the contract’s authorized contact person regarding their solicitation response. Chapter 2-7 allows certain exceptions; for instance, a person responding to a City solicitation may speak to SMBR regarding this *Compliance Plan*. See the full language of the City Code or solicitation documents for further details.

If the *Compliance Plan* and Good Faith Efforts documentation are not submitted prior to the due date specified in the solicitation documents, the bid will be deemed non-responsive and not be accepted for consideration.

COMPLIANCE PLAN INSTRUCTIONS

(See Appendix A)

SMBR may request written clarification of items listed on the *Compliance Plan*. However, there will be no further opportunity for the Bidder to augment the MBE/WBE participation originally listed in the *Compliance Plan* or to demonstrate Good Faith Efforts that were not made prior to the submission of the *Compliance Plan*. Changes to the *Compliance Plan* are permitted only after contract execution and only with prior written approval of SMBR.

Please type or clearly print all information, use “none” or “N/A” where appropriate, and sign and date the *Compliance Plan* as indicated. ***Compliance Plans* not complying with the *Compliance Plan* Instructions shall be rejected as non-responsive. Submissions not utilizing the forms provided with the solicitation may render the submission nonresponsive or noncompliant.**

Section I Project Identification and Goals

This section includes the pre-printed Project Name, Project/Solicitation Number, and goals and/or subgoals. The Bidder does not need to fill in any information under Section I.

Section II Bidder Information

The Bidder should complete this section with its information and sign in the space provided. The portion of Section II marked as “Reserved for City of Austin SMBR Only” should be left blank.

Section III *Compliance Plan* Summary

This section is a summary of subcontractor participation in this Bid. Bidder should complete Sections IV-VII, described below, before attempting to complete Section III. After completing Sections IV-VII, calculate the percentage of MBE/WBE participation for each goal and enter the information in the blanks provided. Because Section III is a summary, if there are any inconsistencies between Sections IV-VII and Section III, the calculations contained in Sections IV-VII will prevail. If the Bidder indicates that they do not anticipate meeting the goals with certified MBE/WBE firms, then the Bidder shall submit documentation detailing their Good Faith Efforts to meet the established MBE/WBE goals. The Compliance Plan will be reviewed and approved by the Small and Minority Business Resources Department.

Section IV Disclosure of MBE and WBE Participation

Please list all certified MBE/WBEs subcontractors using the legal name under which they are registered to do business with the City of Austin and the value of the work they will be performing themselves except for subcontractor(s) that will be performing the trucking or hauling scope of work (see Section VII below). Do not include the value of work that the MBE/WBE’s subcontractors will be subcontracting to second-level subcontractors. By listing certified MBE and WBE Firms on the Compliance Plan, the Bidder indicates that both parties acknowledge the price and scope of work and that they are prepared to contract for that price and scope if the City awards the project to the Bidder. Unit price subcontracts are acceptable if appropriate to the type of work being performed. A Letter of Intent (LOI) does not replace a binding contract between a prime contractor and a subcontractor.

Before completing Section IV of the Compliance Plan, please read the following instructions regarding how to count MBE/WBE participation:

- (A) Only the value of the work actually performed by the MBE/WBE shall be counted toward the goals. This includes:
- (1) work performed by the MBE/WBE’s own forces;

(2) the cost of supplies, materials, or equipment purchased, leased, or otherwise obtained by the MBE/WBE for the work of the contract (except that supplies, materials, and equipment purchased or leased from the prime contractor or its affiliate may not be counted toward the goal); and

(3) fees or commissions charged by an MBE/WBE for providing a bona fide service, such as professional, technical, consultant, or managerial services, or for providing bonds or insurance specifically required for the performance of a contract, provided the fee is reasonable and not excessive as compared with fees customarily allowed for similar services.

(B) When a Bidder purchases supplies, materials, or equipment from an MBE/WBE, the cost of those supplies, materials, or equipment shall be counted toward the goals as follows:

(1) If the supplies, materials, or equipment are obtained from an MBE/WBE that is a Manufacturer or Regular Dealer, 100 percent of the payment for the supplies, materials, or equipment shall be counted toward the goals.

(2) If the supplies, materials, or equipment are obtained from an MBE/WBE that is neither a Manufacturer nor a Regular Dealer, the cost of the materials and supplies themselves shall not be counted toward the goals. However, fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, may be counted toward the goals if the payment of such fees is a customary industry practice and such fees are reasonable and not excessive as compared with fees customarily allowed for similar services.

(C) When an MBE/WBE subcontractor listed on the Compliance Plan subcontracts part of the work of its contract to another Firm, the value of that second-level subcontracted work may not be counted toward the goals based on the initial subcontractor's MBE/WBE certification. Please see Section VI for an explanation of how to count the value of second-level subcontractors' work.

(D) A Firm owned by a minority woman may be certified as both an MBE and a WBE (dual certified). On a single contract, the value of the work performed by a dual certified subcontractor may not be counted toward both the MBE and the WBE goals. The Bidder must decide whether to designate the dual certified subcontractor as an MBE or a WBE in the Compliance Plan for the purpose of meeting the goals set for that contract. That designation may not be changed for the duration of the contract.

(E) When an MBE/WBE performs as a participant in a certified Joint Venture, only the portion of the contract value that is the result of the distinct, clearly defined portion of the work that the MBE/WBE performs with its own forces and for which it is at risk shall be counted towards the project goals. For more specific information regarding requirements and evaluations of certified MBE/WBE Joint Ventures, please see the City's MBE/WBE Procurement Program Rules or contact SMBR's Certification Division.

(F) Only expenditures to an MBE/WBE contractor that is performing a Commercially Useful Function shall be counted toward the project goals. If SMBR makes an initial determination that an MBE/WBE is not performing a Commercially Useful Function given the type of work involved and normal industry practices, the MBE/WBE may present evidence to rebut this presumption.

(G) To be counted toward project goals, MBE/WBEs must be certified by SMBR prior to the due date to submit the Compliance Plan as specified in the City's solicitation documents. A Firm that is certified as an MBE/WBE at the time that the Compliance Plan is filed may cease to be a certified Firm before the contract is completed. Only the value of the work performed by such a Firm while it is certified may be counted toward the project goals.

Section V Disclosure of Non-Certified Subcontractors

Please list all known non-certified subcontractors, using the legal name under which they are registered to do business with the City of Austin, to be used in the performance of this contract. If Bidder will not use any non-certified Firms, please write “N/A” in the first box on this page.

The scopes of work indicated in Section V will be considered subcontracting opportunities for MBEs and WBEs, unless it is demonstrated that certified MBEs or WBEs are unavailable or do not possess the requirements in the technical portion of the solicitation to perform the work involved. If Bidder did not meet the project goals, Bidder must explain in the space provided why MBEs/WBEs were not used as subcontractors and ***submit documentation for the stated reason if applicable***. If Bidder did meet the project goals, please indicate “Goals Met” in the space provided.

Section VI Disclosure of Second-Level Subcontractors

Please complete this section if Bidders knows that one or more of Bidder’s subcontractors will subcontract part of the work of their contracts to second-level subcontractors. In the last line of each entry box, please write the name of the first-level subcontractor that will be subcontracting work to the second-level subcontractor. Identify second-level subcontractors by the legal name under which they will be registered to do business with the City. The first-level subcontractor should be listed in Section IV or Section V. If Bidder is not aware of any second-level subcontractors, please write “N/A” in the first box on this page.

As discussed in Section IV above, when an MBE/WBE subcontractor subcontracts part of the work of its contract to another Firm, the value of that second-level subcontractor work may not be counted toward the goals based on the initial subcontractor’s MBE/WBE certification. The value of the second-level subcontractor work may be counted toward the project goals only based on the second-level subcontractor’s own MBE/WBE certification, if any. Work that an MBE/WBE subcontracts to a non-certified firm does not count toward the goals. Work that an MBE/WBE subcontractor contracts to another certified firm shall not be counted twice towards the goal.

Section VII Disclosure of Primary and Alternate Trucking Subcontractors

Please complete this section if the project includes trucking or hauling services as a scope of work. Each time this scope of work is required on the project, Bidder must contact the Firm listed as the primary trucking subcontractor in this section. If the primary trucking subcontractor is not available or cannot perform the entirety of the work at the time required, Bidder may contact the alternate trucking subcontractors in the order that Bidder lists them in this section. Identify primary and alternate trucking subcontractors by the legal name under which they will be registered to do business with the City. Bidder must contact the primary trucking subcontractor at least 24 hours before the work is to be performed. Bidder will not need to submit a Request for Change to use the alternate trucking subcontractors if Bidder contacted the primary trucking subcontractor first and then proceeded to contact the alternates in the order Bidder listed them on this section.

For purposes of meeting the project goals or subgoals at the *Compliance Plan* stage, the entire value of this scope of work shall be assigned to the primary trucking subcontractor. At contract closeout, MBE/WBE participation will be counted based on the actual usage of the primary and alternate trucking subcontractors.

Section VIII MBE/WBE Compliance Plan Check Sheet

Please complete the MBE/WBE *Compliance Plan* Check Sheet with the information requested.

GOOD FAITH EFFORTS INSTRUCTIONS

(See Appendices B and D)

The Bidder has a responsibility to make a portion of the work available to MBE/WBE subcontractors so as to facilitate meeting the goals or subgoals. If the Bidder cannot achieve the goals or subgoals, documentation of the Bidder's Good Faith Efforts to achieve the goals or subgoals must be submitted at the same time as the *Compliance Plan*. The SMBR Director will review the documentation provided and determine if the Bidder made sufficient Good Faith Efforts. That there may be some additional costs involved in soliciting and using MBEs and WBEs is not a sufficient reason for a Bidder's failure to meet the goals and subgoals, as long as such costs are reasonable. However, a Bidder is not required to accept a higher quote from a subcontractor in order to meet a goal or subgoal.

Contacting Potential MBE/WBE Subcontractors

The City has determined the scopes of work for this project and provided an Availability List of all the MBE and WBE firms certified to perform those scopes. The Availability List is found at Appendix D and has two sections: *Vendors Within the Significant Local Business Presence (SLBP) Area* and *Vendors Outside the Significant Local Business Presence (SLBP) Area*. As part of Good Faith Efforts, Bidders **must** contact **all** firms listed in the *Vendors Within the SLBP Area* section. Please note that every firm on the Availability List – outside the SLBP – is City-certified as an MBE or WBE for purposes of meeting the project goals, and Bidders are encouraged to contact all the firms. If a Bidder identifies an additional scope of work for this project not identified in the solicitation, the Bidder must request from SMBR an Availability List for that scope of work and contact all firms, if any, on such list. The SMBR Director determines whether the Bidder has made sufficient Good Faith Efforts if goals or subgoals are not met.

The City neither warrants the capacity or availability of any Firm, nor does the City guarantee the performance of any Firm indicated on the availability list.

The availability list is sorted in numerical sequence by National Institute of Governmental Purchasing (NIGP) Commodity Code. It includes all certified MBE/WBE vendors for the scopes of work identified by the City as being potentially applicable to this project. However, the availability list is not a comprehensive identification of all areas of potential subconsulting opportunities. If a Bidder identifies one or more work areas that are appropriate subconsulting opportunities that not included on the availability list, the Bidder shall contact SMBR to request the availability list for MBE and WBE Firms in those areas. Requests for supplemental availability lists will be evaluated as a part of the Bidder's Good Faith Efforts to meet the goals.

If the Bidder believes any of the work areas on the availability list are not applicable to the project's scope of work or if the Bidder believes that the lists are inaccurate, the Bidder shall notify the authorized contact person of the concern immediately and prior to submission of the response to the solicitation. All Bidders will be notified in writing of any inaccuracy by addendum to the solicitation. Concerns about a particular MBEs/WBE's certification status may be addressed to SMBR at SMBRComplianceDocuments@austintexas.gov. If the Bidder wants to use a certified subcontractor that does not appear on this list, Bidder may either request the certified subcontractor to furnish proof of certification and the specific work areas for which it has been certified or request such information from SMBR.

Appendix B shows the format for collecting required information from the subcontractors on the *Vendors Within SLBP Area* availability list. The information must be obtained at least seven (7) business days prior to the submission of the *Compliance Plan*; alternate formats may be acceptable as long as they gather the same required information. Attached to the Subcontractor Vendor List at Appendix D is a list containing the names and addresses of all these MBE/WBE Firms in alphabetical order. This list is in label format and is designed to facilitate the printing of mailing labels.

The following codes are used on the availability lists:

G	Gender code	LOC	A firm's two-digit location code (e.g., SL or TX)
F	Female	AU	Austin
M	Male	SL	Significant Local Business Presence (SLBP)
		TX	Outside SLBP
MBE	A firm certified as a Minority-owned Business Enterprise	WBE	A firm certified as a Woman-owned Business Enterprise
MWB	A firm certified as both a Minority-owned & Woman-owned Business Enterprise	WMB	A firm certified as both a Woman-owned & Minority-owned Business Enterprise
MWDB	A firm certified as a Minority-owned, Woman-owned, and Disadvantaged Business Enterprise	WMDB	A firm certified as a Woman-owned, Minority-owned, and Disadvantaged Business Enterprise

Good Faith Efforts Review

If goals are not met, SMBR will examine the *Compliance Plan* and the Good Faith Efforts documentation submitted with the *Compliance Plan* to ensure that the Bidder made Good Faith Efforts to meet the project goals or subgoals. In determining whether the Bidder has made Good Faith Efforts, SMBR will consider, at a minimum, the Bidder's efforts to do the following:

- (A) Solicit certified MBE/WBE subcontractors with a Significant Local Business Presence (SLBP) and request a response from those interested subcontractors who believe they have the capability to perform the work of the contract through at least two reasonable, available, and verifiable means. The Bidder must solicit this interest more than seven (7) business days prior to submission of the Compliance Plan to allow sufficient time for the MBEs or WBEs to respond. (The date bids/proposals are due to the City should not be included in the seven day solicitation criteria.) The Bidder must state a specific and verifiable reason for not contacting each certified Firm with a significant local business presence.
- (B) Provide interested MBEs/WBEs with adequate information about the plans, specifications, and requirements of the contract, including addenda, in a timely manner, to assist them in responding and submitting a proposal.
- (C) Negotiate in good faith with interested MBEs/WBEs that have submitted bids/proposals to the Bidder. An MBE/WBE that has submitted a bid to a Bidder but has not been contacted within five (5) business days of submission of the bid may contact SMBR to request a meeting with the Bidder. Evidence of good faith negotiation includes the names, addresses, and telephone numbers of MBEs/WBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subconsulting; and evidence as to why additional agreements could not be reached for MBEs/WBEs to perform the work. Bid shopping is prohibited.
- (D) Select portions of the work to be performed by MBEs/WBEs in order to increase the likelihood that the MBE/WBE goals or subgoals will be met. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate MBE/WBE participation, even when the Bidder might otherwise prefer to perform these work items with its own forces.
- (E) Publish solicitation notice in a local publication (i.e. newspaper, trade association publication, or via electronic/social media).

(F) Use the services of available community organizations; minority persons/women consultants' or groups in the applicable field for the type of work described in this solicitation; local, state, and federal minority persons/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of MBEs/WBEs.

(G) Seek guidance from SMBR on any questions regarding compliance with this section.

The following factors may also be considered by SMBR in determining compliance through good faith efforts; however, they are not intended to be a mandatory checklist, nor are they intended to be exclusive or exhaustive:

(A) Whether the Bidder made efforts to assist interested MBEs/WBEs in obtaining bonding, lines of credit, or insurance as required by the City or consultant.

(B) Whether the Bidder made efforts to assist interested MBEs/WBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

In assessing minimum good faith efforts, SMBR may consider whether the Bidder sought assistance from SMBR on any questions related to compliance with this section. In addition, SMBR may also consider the performance of other Bidders successfully meeting the goals.

The ability or desire of a Bidder to perform the work of a contract with its own organization does not relieve the Bidder of the responsibility to make Good Faith Efforts.

Bidders may reject MBE/WBEs as unqualified only following thorough investigation of their capabilities. The MBE/WBE's membership or lack of membership in specific groups, organizations, or associations, and political or social affiliations (for example union or non-union employee status), are not legitimate causes for the rejection or non-solicitation of bids/proposals in the Bidder's efforts to meet the project goals or subgoals.

At a minimum, the following should be submitted to support Good Faith Effort documentation (documentation is not limited to this list):

- Fax logs, emails, and/or copies of documents sent to firms within the SLBP area
- Copies of written correspondence to certified firms (include names, addresses, and other identifying information)
- Phone logs with responses (*Phone contacts, alone, will not be sufficient.*)
- Lists and copies of letters sent by mail, hand delivered, or e-mailed
- Breakdown of negotiations made with certified firms
- Copies of advertisements with local newspapers, trade associations, Chambers of Commerce and/or any other public media
- Other communications regarding contacts with trade associations and Chambers of Commerce

The following additional Good Faith Efforts factors may also be considered

- Copies of emails or phone logs regarding assistance in bonding, lines of credit, or insurance (as required by City or Consultant)
- Copies of emails or phone logs regarding assistance in obtaining equipment, supplies, materials, or services
- Copies of all proposals received in response to Bidder contacting other Firms

POST-AWARD INSTRUCTIONS

(See Appendix C)

Confirmation Letters

All Bidders are required to include copies of the confirmation letters received from subcontractors, confirming the Subcontractors' willingness to provide services should the contract be awarded.

Changes to the *Compliance Plan* including additions, deletions, contract changes, or substitutions of subcontractors are permitted only after contract execution and only with prior written approval of SMBR. Request for changes to the *Compliance Plan* must be submitted on the *Request for Change of Compliance Plan Form* for all levels of subconsulting and must be approved by the SMBR Director prior to adding, deleting, changing or substituting any subcontractor.

Post-Award Monitoring

The City will monitor post-award compliance information regarding the use of certified MBE/WBE Firm(s) listed on the *Compliance Plan*. The Bidder will be required to submit post award reports detailing the utilization of all subcontractors. The reports and other information regarding post-award compliance will be discussed with the successful Bidder. The following information on Payment Verification, Change Order/Contract Amendments, and Progressive Sanctions provides an overview of some of the post-award monitoring process.

▪ Payment Verification

Bidders are advised that the contract resulting from this solicitation includes a subcontractor payments clause. This clause requires all subcontractors to be paid within ten (10) calendar days from the date that the Bidder has been paid by the City for invoices submitted by subcontractors.

The Bidder shall submit a *Subcontractor/Supplier Awards and Expenditures Report* to the project manager and/or contract administrator at the time specified by the managing department. The report shall be in the format required by the City and shall include all awards and payments to subcontractors for goods and services provided under the contract during the previous month. This report may be used by the City to verify utilization of and payment to MBEs and WBEs.

The Bidder and/or any subcontractor whose subcontracts are being counted toward the MBE/WBE requirements shall allow the City access to records relating to the contract, including but not limited to, subcontracts, payroll records, tax information, and accounting records, for the purpose of determining whether the MBEs/WBEs are performing the scheduled subcontract work.

In determining achievement of MBE/WBE goals, the participation of an MBE/WBE subcontractor shall not be counted until the amount being counted toward the goal has been paid.

▪ Change Order/Contract Amendments

The goals on this contract shall also apply to change orders that require work beyond the scope(s) of trades originally required to accomplish the project. The Bidder is required to make Good Faith Efforts to obtain MBE/WBE participation for additional scopes of work.

Change orders that do not alter the type of trades originally required to accomplish the project may be undertaken using the subcontractors already under contract to the Bidder. Project managers will have automatic SMBR approval

to authorize any change order that **increases** the contract amount for an **existing** certified subcontractor and is **within** the existing scope being performed by that subcontractor.

▪ **Progressive Sanctions**

The successful Bidder's *Compliance Plan* will be incorporated into the resulting contract with the City and shall be considered part of the consultant's performance requirements. Progressive sanctions may be imposed for failure to comply with Chapter 2-9A of the City Code, including:

- Providing false or misleading information in Good Faith Efforts documentation, post award compliance, or other Program operations;
- Substituting Subcontractors without first receiving approval for such substitutions, which may include the addition of an unapproved Subcontractor and failure to use a Subcontractor listed in the approved *Compliance Plan*; and
- Failure to comply with the approved *Compliance Plan* without an approved Request for Change, an approved Change Order, or other approved change to the Contract.

Please refer to Section 2-9A-25 of the City Code and SMBR Rule 11.5 for additional information.

IFB – MBE/WBE COMPLIANCE PLAN

All sections (I-VIII) must be completed and submitted prior to the due date in the solicitation documents

Section I — Project Identification and Goals

Project Name	
Solicitation Number	

Project Goals or Subgoals	
MBE	%
African American	%
Hispanic	%
Native/Asian American	%
WBE	%

Section II — Bidder Company Information

Name of Company	
Address	
City, State Zip	
Phone	
Fax & E-Mail	
Name of Contact Person	
Is your company registered on Vendor Connection?	Yes <input type="checkbox"/> No <input type="checkbox"/> <i>If yes, provide Vendor Code _____</i> If No, please note: All vendors and subcontractors/consultants must register with COA's Vendor Connect prior to award. See Link for registration information at https://www.ci.austin.tx.us/financeonline/finance/index.cfm
Is your company COA M/WBE certified?	Yes <input type="checkbox"/> No <input type="checkbox"/> <i>If yes, please indicate:</i> MBE <input type="checkbox"/> WBE <input type="checkbox"/> MBE/WBE Joint Venture <input type="checkbox"/>

I certify that the information included in this *Compliance Plan* is true and complete to the best of my knowledge and belief. I further understand and agree that this *Compliance Plan* shall become a part of my contract with the City of Austin.

Name and Title of Authorized Representative

Signature

Date

For SMBR Use Only:	
<i>I have reviewed this compliance plan and found that the Proposer HAS <input type="checkbox"/> or HAS NOT <input type="checkbox"/> complied as per the City Code Chapter 2-9.A.</i>	
Reviewing Counselor _____	Date _____
<i>I have reviewed this compliance plan and Concur <input type="checkbox"/> or Do Not Concur <input type="checkbox"/> with recommendation.</i>	
Director/Assistant Director _____	Date _____

Section III — *Compliance Plan Summary***Note:**

- Fill in all the blanks (use “none” or “N/A” where appropriate)
- For project participation numbers use an EXACT number. DO NOT USE: approximate, plus or minus (+ -), up to, to be determined (TBD), < >, or any other qualifying language.
- Compliance plans not complying with these requirements shall be rejected as non-responsive.

Total Base Bid (*includes allowances if applicable*): \$ _____

Goals: Proposed Participation		
MBE	\$	%
WBE	\$	%
Non-Certified	\$	%

SubGoals: Proposed Participation		
African American	\$	%
Hispanic	\$	%
Native/Asian American	\$	%
WBE	\$	%
Non-Certified	\$	%

Bidder's own participation in base bid (*includes allowances if applicable*); less any amount subcontracted:

Amount: \$ _____ Percentage: _____%

Are the stated goals or subgoals of the solicitation met? (*If no, attach documentation of Good Faith Efforts*)

Yes No

For SMBR Use Only:

Verified Goals OR Subgoals:

MBE _____ % WBE _____ % Prime _____ % Non-Certified _____ %
 African-American _____ % Hispanic _____ % Native/Asian American _____ % WBE _____ %

**Section IV — Disclosure of MBE and WBE Participation
(Duplicate As Needed)**

Note:

- Fill in all the blanks (use “none” or “N/A” where appropriate)
- Compliance plans not complying with these requirements shall be rejected as non-responsive.
- Fill in names of MBE/WBE Certified Firms as registered with Vendor Connection.
- Select either MBE or WBE for dually certified firms to indicate which certification will count towards the MBE or WBE goal.
- Contact SMBR to request an availability list of certified Firms for additional scopes of work that were not included on the original availability list.

Name of MBE/WBE Certified Firm		
City of Austin Certified (choose one)	MBE <input type="checkbox"/>	WBE <input type="checkbox"/> Gender/ Ethnicity:
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%

Name of MBE/WBE Certified Firm		
City of Austin Certified (choose one)	MBE <input type="checkbox"/>	WBE <input type="checkbox"/> Gender/ Ethnicity:
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%

Name of MBE/WBE Certified Firm		
City of Austin Certified (choose one)	MBE <input type="checkbox"/>	WBE <input type="checkbox"/> Gender/ Ethnicity:
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%

Name of MBE/WBE Certified Firm		
City of Austin Certified (choose one)	MBE <input type="checkbox"/>	WBE <input type="checkbox"/> Gender/ Ethnicity:
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%

Section V — Disclosure of Non-Certified Subcontractors
(Duplicate As Needed)

Note:

- Fill in all the blanks (use “none” or “N/A” where appropriate)
- Compliance plans not complying with these requirements shall be rejected as non-responsive
- Fill in names of Non-Certified Subcontractors as registered with the City of Austin

Are Goals Met? Yes No If no, state reason(s) below and attach documentation:

Name of Subcontractor		
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
Reason MBE/WBE not used		
Name of Subcontractor		
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
Reason MBE/WBE not used		
Name of Subcontractor		
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
Reason MBE/WBE not used		
Name of Subcontractor		
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
Reason MBE/WBE not used		

Section VI — Disclosure of Second-Level Subcontractors
(Duplicate as Needed)

Note:

- Fill in all the blanks (use “none” or “N/A” where appropriate)
- Compliance plans not complying with these requirements shall be rejected as non-responsive
- Fill in names of Second-Level Subcontractors as registered with the City of Austin

Name of Second-Level Subcontractor		
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Gender/Ethnicity:	
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
First-Level Subcontractor		
Name of Second-Level Subcontractor		
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Gender/Ethnicity:	
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
First-Level Subcontractor		
Name of Second-Level Subcontractor		
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Gender/Ethnicity:	
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
First-Level Subcontractor		
Name of Second-Level Subcontractor		
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Gender/Ethnicity:	
Vendor Code		
Address/ City / State / Zip		
Contact Person & Phone #		
Fax & Email Address		
Commodity Codes		
Commodity Codes Descriptions		
Amount of Subcontract	\$	%
First-Level Subcontractor		

Section VII — Disclosure of Primary and Alternate Trucking Subcontractors
(Duplicate as Needed)

Note:

- Fill in all the blanks (use “none” or “N/A” where appropriate)
- Compliance plans not complying with these requirements shall be rejected as non-responsive
- Fill in names of Primary and Alternate Trucking Subcontractors as registered with the City of Austin

<i>Primary Trucking Subcontractor</i>	
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethnic/Gender Code:
Vendor Code	
Address/ City / State / Zip	
Contact Person	Phone #:
Commodity Codes	
Commodity Codes Descriptions	

<i>Alternate Trucking Subcontractor</i>	
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethnic/Gender Code:
Vendor Code	
Address/ City / State / Zip	
Contact Person	Phone #:

<i>Alternate Trucking Subcontractor</i>	
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethnic/Gender Code:
Vendor Code	
Address/ City / State / Zip	
Contact Person	Phone #:

<i>Alternate Trucking Subcontractor</i>	
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethnic/Gender Code:
Vendor Code	
Address/ City / State / Zip	
Contact Person	Phone #:

<i>Alternate Trucking Subcontractor</i>	
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethnic/Gender Code:
Vendor Code	
Address/ City / State / Zip	
Contact Person	Phone #:

<i>Alternate Trucking Subcontractor</i>	
City of Austin Certified? (choose one)	No <input type="checkbox"/> MBE <input type="checkbox"/> WBE <input type="checkbox"/> Ethnic/Gender Code:
Vendor Code	
Address/ City / State / Zip	
Contact Person	Phone #:

Section VIII — MBE/WBE Compliance Plan Check List

The MBE/WBE *Compliance Plan* must be completed and submitted by the time specified in the solicitation documents. If the goals or subgoals were not achieved, Good Faith Efforts documentation must be submitted with the MBE/WBE *Compliance Plan*. All questions in Section VIII **must** be completed and submitted with the *Compliance Plan* if goals or subgoals are not met.

-
1. Were written notices sent to all MBE/WBEs from the Significant Local Business Presence (SLBP) availability list at least seven (7) business days prior to the submission of this *Compliance Plan*? Yes No
2. Were two separate methods used to contact all MBE/WBEs from the SLBP availability list at least seven (7) business days prior to the submission of this *Compliance Plan*? Please list the two methods used to contact MBE/WBEs. (*i.e. fax, email, mail, and/or phone*) Yes No
List Methods: _____
3. Were steps taken to follow up with interested MBE/WBEs? Yes No
4. Were advertisements placed with a local publication? (*i.e. newspaper, minority or women organizations, or electronic/social media*)? **If yes, please attach.** Yes No
5. Were written notices sent to Minority or Women organizations? **If yes, please attach.** Yes No
6. Were additional elements of work identified to achieve the goals or subgoals? Yes No
If yes, please explain: _____
7. Was SMBR contacted for assistance? Yes No
If yes, complete following:
Contact Person: _____
Date of Contact: _____
Summary of Request: _____
8. Were Minority or Women organizations contacted for assistance? Yes No
If yes, complete following:
Organization(s): _____
Date of Contact: _____
Summary of Request: _____
9. Is the following documentation attached to support good faith effort requirements to achieve goals or subgoals? (***Documentation is not limited to this list.***)
- Copy of written solicitation sent to MBE/WBEs in SLBP area Yes No
 - Two separate methods of notices sent to MBE/WBEs in SLBP area (fax transmittals, emails, and/or phone log). Yes No
 - Copy of advertisements Yes No
 - Copy of notices sent to Minority and Women organizations Yes No
 - Documentation that demonstrates efforts made to reach agreements with the MBE/WBEs who responded to Bidder's written notice? (*i.e. copy of bids/proposals, spreadsheet breakdown of MBE/WBEs considered follow-up emails/phone logs and/or correspondence between Bidder and interested MBE/WBEs*) Yes No

LETTER TO POTENTIAL SUBCONTRACTORS

_____ is soliciting Minority- and Women-Owned Business Enterprise participation for the following City of Austin project. Solicitation documents are available at our office or at One Texas Center, 505 Barton Springs Road, 10th Floor, Suite 1045.

Name of Project: _____
 Project/Solicitation Number: _____
 Location of Pre-bid Conference (if any) _____

 Response Due Date and Time: _____

This Project Includes the Following Scopes of Service:

- | | |
|---|---|
| <input type="checkbox"/> Asbestos Abatement | <input type="checkbox"/> HVAC |
| <input type="checkbox"/> Carpentry | <input type="checkbox"/> Insulation |
| <input type="checkbox"/> Carpeting | <input type="checkbox"/> Lab and Field Testing Services |
| <input type="checkbox"/> Concrete | <input type="checkbox"/> Landscaping |
| <input type="checkbox"/> Demolition Services | <input type="checkbox"/> Masonry |
| <input type="checkbox"/> Doors and Frames | <input type="checkbox"/> Millwork |
| <input type="checkbox"/> Drilling | <input type="checkbox"/> Painting |
| <input type="checkbox"/> Drywall | <input type="checkbox"/> Paving and Resurfacing |
| <input type="checkbox"/> Electrical | <input type="checkbox"/> Plumbing |
| <input type="checkbox"/> Excavation Services | <input type="checkbox"/> Roofing |
| <input type="checkbox"/> Fabricated Steel | <input type="checkbox"/> Stone |
| <input type="checkbox"/> Flooring | <input type="checkbox"/> Tile |
| <input type="checkbox"/> Glazing Services | <input type="checkbox"/> Weather and Waterproofing |
| <input type="checkbox"/> Hardware | <input type="checkbox"/> Welding |
| <input type="checkbox"/> Heavy Construction Equipment | <input type="checkbox"/> Windows |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> Other _____ |

Contact our office for detailed information on the scopes of services to be subcontracted and the relevant terms and conditions of the contract.

Contact: _____ at _____ or _____
 (Name) (Telephone) (Fax)

 (Email)

All Responses MUST be received by: _____

Confirmation Letter

Name of Prime Contractor: _____

Address: _____
Street City State Zip Code

Telephone: (____) _____ Fax: (____) _____ Proposed Contract Amount: \$ _____

Project/Solicitation Number: _____

Project Name: _____

Type of Agreement (*check one*): Lump Sum Unit Price Commodity

Period of Performance: _____ Level of Subcontracting (*check one*): 1st 2nd 3rd

Legal Name of Subcontractor*: _____

Subcontractor* Vendor Code: _____

Address: _____
Street City State Zip Code

Telephone: (____) _____ Fax: (____) _____ Proposed Subcontract Amount: \$ _____

Commodity Code and description of work to be performed by Subcontractor Firm:

The Prime Contractor and the Subcontractor listed above agree that the Prime Contractor has provided the Subcontractor with a copy of the City's prevailing wage requirements

Prime Contractor:

 Legal Name of Firm, as registered with the City

 Signature

 Print Name

 Title

 Date

STATE OF _____
 COUNTY OF _____
 SUBSCRIBED AND SWORN TO before me on the
 _____ day of _____, 20____.

Notary Public
 *Including Suppliers, Manufacturers, Alternates

Subcontractor:

 Legal Name of Firm, as registered with the City

 Signature

 Print Name

 Title

 Date

STATE OF _____
 COUNTY OF _____
 SUBSCRIBED AND SWORN TO before me on the
 _____ day of _____, 20____.

Notary Public

**City of Austin
Subcontract Vendor List - VCRCVS**

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

Version No.: 1

Phase: 1

C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
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Vendors Within the SLBP Area

33013 Fencing, Chain Link (Including Fabric, Gates, Pane

V00000924432 Eagle Pride Supply LLC 13900 Ih 35 Suite D1 Austin Tx 78727	5128130634 pmyers@eaglepridesupply.com	MDB	M/African American	AU
VS0000035647 KLP Commercial, L.L.C. 400 W. Main Street, Suite 100 Round Rock Tx 78664	512-571-0477 5122554032 np@klpcommercial.com	MWDB	F/Native American	SL
ROA7009475 ROADWAY SPECIALTIES INC Po Box 90309 Austin Tx 78709-0309	512-280-6666 512-280-6066 sthomas@roadwayspecialties.com	WB	F/Caucasian	AU
ALL8314335 TONY PARENT ENTERPRISES 13350 Old Kimbro Rd, Bldg A Manor Tx 78653	512-255-5416 512-255-7096 estimating@alliedfence1950.com	MB	M/Hispanic	AU
WOO7143440 WOOLERY CUSTOM FENCE CO P.O. Box 986 Elgin Tx 78621-5585	512-281-2186 512-233-5396 bids@wooleryfence.com	WDB	F/Caucasian	SL
V00000922275 WaterFilled Barrier Systems International, Inc. 195 Stockade Ranch Rd., B Paige Tx 78659	8449274685 700 5127278620 jennifer@wbsintl.com	WDB	F/Caucasian	SL

40509 Fuel Oil, Diesel

BEN8308480 BENQWEST L L C 2300 E Ben White Blvd Austin Tx 78741-7111	512-565-1048 512-233-0843 BENQWEST@YAHOO.COM	MB	M/Asian	AU
VS0000031989 JTE COMPANY LLC Po Box 3605 Pflugerville Tx 78691	512-934-1905 5129909850 jtecollc@gmail.com	MB	M/African American	SL
VC0000102094 S&R INVESTMENTS INC Po Box 5877 Austin Tx 78763	512-371-3222 512-371-3225 dsuewatson2@yahoo.com	WDB	F/Caucasian	AU

**City of Austin
Subcontract Vendor List - VCRCVS**

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5507818 BARRICADES, TRAFFIC, PORTABLE					
	CEN7157640 CENTRAL TEXAS BARRICADE INC Po Box 1088 Bastrop Tx 78602-1088	512-581-9555 512-303-9977 centraltexasbarricades@msn.com	MWB	F/Hispanic	SL
	EAS7169470 EASY DRIVE STAKE INC 4111 Todd Lane Suite H Austin Tx 78744	512-447-9879 512-916-8099 WRODRIGUEZ@EASYDRIVE.NET	MDB	M/Hispanic	AU
	VS0000031989 JTE COMPANY LLC Po Box 3605 Pflugerville Tx 78691	512-934-1905 5129909850 jtecolc@gmail.com	MB	M/African American	SL
	MUN7143465 MUNIZ CONCRETE & CONTRACTING INC Po Box 6596 Austin Tx 78762	512-385-2334 512-389-1446 rudy@munizcontracting.com	MDB	M/Hispanic	AU
6584639 PIPE, DUCTILE IRON, CENTRIFUGALLY CAST, CLASS 55 W					
	V00000918184 ABAYOMI OLUSEGUN ADEKOYA 2038 Charlotte Way Round Rock Tx 78664	512-788-4345 amazinggracetag@yahoo.com	MDB	M/African American	SL
	VS0000031989 JTE COMPANY LLC Po Box 3605 Pflugerville Tx 78691	512-934-1905 5129909850 jtecolc@gmail.com	MB	M/African American	SL
	VS0000035647 KLP Commercial, L.L.C. 400 W. Main Street, Suite 100 Round Rock Tx 78664	512-571-0477 5122554032 np@klpcommercial.com	MWDB	F/Native American	SL
	V00000902341 Louis Paul Podraza 8400 Daleview Drivea Austin Tx 78757	512-917-9822 5124501884 podjcash@gmail.com	MB	M/Hispanic	AU
	UNI7027985 UNISM DEVELOPMENT CO INC Po Box 14145 Austin Tx 78761-4145	512-255-3726 512-255-1451 unism@sbcglobal.net	MB	M/African American	AU

65860 Pipe, PVC (Polyvinyl Chloride)

City of Austin Subcontract Vendor List - VCRCVS

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

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C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	V00000918184 ABAYOMI OLUSEGUN ADEKOYA 2038 Charlotte Way Round Rock Tx 78664	512-788-4345 amazinggracetag@yahoo.com	MDB	M/African American	SL
	V00000911081 Get It Clean, Inc 3736 Bee Caves Rd Ste 1-215 Austin Tx 78746	512-732-2420 maneesha@itgetitclean.com	MWDB	F/Native American	AU
	VS0000031989 JTE COMPANY LLC Po Box 3605 Pflugerville Tx 78691	512-934-1905 5129909850 jtecollc@gmail.com	MB	M/African American	SL
	V00000902341 Louis Paul Podraza 8400 Daleview Drivea Austin Tx 78757	512-917-9822 5124501884 podjcash@gmail.com	MB	M/Hispanic	AU
	MAR8301130 MARS INDUSTRIES L L C Po Box 560 Cedar Creek Tx 78612-0560	512-303-4413 512-321-1199 AROS3B@SWBELL.NET	MDB	M/Hispanic	SL
	HUR7051205 P D MORRISON ENTERPRISES INC 1120 Toro Grande Blvd. Bldg 2#208 Cedar Park Tx 78613-6973	512-335-7173 512-219-0901 mro@pdme.com	MB	M/African American	AU
	V00000913376 SIVAT SERVICES INC 9230 Research Blvd Austin Tx 78758	512-206-0608 102 5122060618 estimating@sivatsi.com	MDB	M/African American	AU
	UNI7027985 UNISM DEVELOPMENT CO INC Po Box 14145 Austin Tx 78761-4145	512-255-3726 512-255-1451 unism@sbcglobal.net	MB	M/African American	AU
75070 Ready-Mix Concrete	VS0000005951 Alpha Ready Mix LLC 212 Investment Loop Hutto Tx 78634	512-846-2221 5128461091 alphareadymix@live.com	MWDB	F/Hispanic	SL
90976 Site Work	ASD7048240 ASD CONSULTANTS INC 8120 N Ih 35 Austin Tx 78753	512-836-3329 512-836-3802 curtis2aia@aol.com	MDB	M/African American	AU

**City of Austin
Subcontract Vendor List - VCRCVS**

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C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	V00000900503 Alpha Paving Industries LLC Po Box 6565 Round Rock Tx 78683	512-677-9001 5126779002 andrew@alphapavingtexas.com	MDB	M/Asian	SL
	CGE8308640 CGE INC 4408 Hwy. 183 S. Austin Tx 78702	512-301-9652 512-394-0293 cgecarlos@austin.rr.com	MDB	M/Hispanic	AU
	VS0000028230 CVI Development, LLC. 1801 Lavaca 2-J Austin Tx 78701	512-944-0280 512-597-2767 KarlDaniels.mac@me.com	MDB	M/African American	AU
	VS0000022301 CX2 Construction, Inc. 19507 Fm 150 W Driftwood Tx 78619	512-858-9203 512-858-5608 stephaniec2@gmail.com	WDB	F/Caucasian	SL
	V00000922353 D&S Texas Icon Construction, LLC 1901 Onion Creek Pkwy #14202 Austin Tx 78748	9564601290 5123835639 ds_txiconconstruction@yahoo.com	MDB	M/Hispanic	AU
	V00000928872 Diven Valles 1229c Fm 1626 Buda Tx 78610	5124614925 vgcconstructionlandscaping@yahoo.com	MB	M/Hispanic	SL
	HHL7086095 H&H FORADORY CONSTRUCTION INC 9220 Burklund Farms Road Del Valle Tx 78617-5328	512-243-2378 512-243-1518 HENRYB@AUSTIN.RR.COM	MDB	M/Hispanic	AU
	JOH2629800 JOHNSON HAULING LLC 1805 Elmira Austin Tx 78721	512-928-1060 512-926-4180 johnsonhauling@hpeprint.com	MB	M/African American	AU
	MUN7143465 MUNIZ CONCRETE & CONTRACTING INC Po Box 6596 Austin Tx 78762	512-385-2334 512-389-1446 rudy@munizcontracting.com	MDB	M/Hispanic	AU
	V00000908345 Mid-State Insulation Co. 207-B E. St. Elmo Rd. Austin Tx 78745	512-440-8228 2 5124407455 diana@midstate.us	WB	F/Caucasian	AU
	PIA8322157 PIATRA INC Po Box 9593 Austin Tx 78766-9593	512-299-0404 -- INFO@PIATRINC.COM	WDB	F/Caucasian	AU

**City of Austin
Subcontract Vendor List - VCRCVS**

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

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C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	PRI7031445 PRISM DEVELOPMENT INC 2709 E 5th St Austin Tx 78702-4729	512-479-9587 100 5124799591 betty@prismdevelopmentinc.com	MDB	M/Hispanic	AU
	VS0000024973 Prota, Inc. P.O. Box 342195 Austin Tx 78734	512-535-2555 5125355441 info@protaconstruction.com	MWB	F/Hispanic	AU
	V00000922250 Rucoba & Maya Construction, LLC 1201 Grove Blvd. #2903 Austin Tx 78741	8328676673 rudy@rucobaconstruction.com	MDB	M/Hispanic	AU
	SAN8316404 SANTA CLARA CONSTRUCTION LTD 9811 Anderson Mill Road, Ste 201 Austin Tx 78750	512-250-8310 512-250-8371 z.forth@sbcglobal.net	MB	M/Hispanic	AU
	TRI8306297 TRIAD BUILDING MAINTENANCE Po Box 140631 Austin Tx 78714-0631	512-385-1189 512-385-0317 a.neely@triadsvcs.com	MDB	M/African American	AU
	VS0000006907 TRINI CONSTRUCTION BUILDER LLC Po Box 81431 Austin Tx 78708	512-282-2262 512-535-7962 info@triniconstructionbuilder.com	MDB	M/African American	AU
	VS0000004060 UNITY CONTRACTOR SERVICES, INC 6448 Hwy 290 East Ste F-113 Austin Tx 78723	512-926-8065 lenzyucs@swbell.net	MDB	M/African American	AU
	V00000919925 Underground Water Solutions Co. Po Box 1355 Elgin Tx 78621	5122789333 5122789133 zoila@uwscsco.net	MDB	F/Hispanic	SL
	V00000911146 XEVEK CONSTRUCTION LLC Po Box 681 Buda Tx 78610	512-312-4214 5123124637 info@xevexllc.com	MDB	M/Hispanic	SL
91071 Shoring and Reinforcement Services	VS0000028230 CVI Development, LLC. 1801 Lavaca 2-J Austin Tx 78701	512-944-0280 512-597-2767 KarlDaniels.mac@me.com	MDB	M/African American	AU

91238 CONSTRUCTION, W/W TREATMENT FA

City of Austin Subcontract Vendor List - VCRCVS

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

Version No.: 1

Phase: 1

C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	VS0000017696 AUSTIN CONSTRUCTORS LLC 7907 S Fm 973 Austin Tx 78719	512-386-8690 5123868695 info@austinconstructors.com	MDB	M/Hispanic	AU
	CEN8321007 CENTRAL ROAD AND UTILITY LTD 8760 A Research Blvd #192 Austin Tx 78758	512-989-2602 512-989-2698 RMARTINEZ@ROADANDUTILITY.COM	MDB	M/Hispanic	AU
	FAC8317993 FACILITIES REHABILITATION INC 9120 S Fm 973 Austin Tx 78719	512-352-6035 512-352-6036 annette@facrehab.com	MB	M/Hispanic	AU
	VS0000030611 Lewis Concrete Restoration 405 Ware Dr Buda Tx 78610	512-983-3283 sherrylewis@austin.rr.com	MWB	F/Hispanic	SL
	MAR8301130 MARS INDUSTRIES L L C Po Box 560 Cedar Creek Tx 78612-0560	512-303-4413 512-321-1199 AROS3B@SWBELL.NET	MDB	M/Hispanic	SL
	PEA7124270 PEABODY GENERAL CONTRACTORS INC Po Box 3 Dripping Springs Tx 78620-0003	800-443-7457 512-858-4132 shelley@peabodygeneral.com	WB	F/Caucasian	SL
	VS0000024973 Prota, Inc. P.O. Box 342195 Austin Tx 78734	512-535-2555 5125355441 info@protaconstruction.com	MWB	F/Hispanic	AU
	ROY7135410 ROYAL VISTA INC 350 County Rd 260 Liberty Hill Tx 78642-6202	512-515-6824 512-515-6829 maydale@royalvistainc.com	WDB	F/Caucasian	SL
	V00000919925 Underground Water Solutions Co. Po Box 1355 Elgin Tx 78621	5122789333 5122789133 zoila@uwsco.net	MDB	F/Hispanic	SL
9124425 EXCAVATION, BORROW. CONSISTS OF EXCAVATING, TRANSP					
	VS0000017696 AUSTIN CONSTRUCTORS LLC 7907 S Fm 973 Austin Tx 78719	512-386-8690 5123868695 info@austinconstructors.com	MDB	M/Hispanic	AU
	AUS8321418 AUSTIN UNDERGROUND INC Po Box 5650 Lago Vista Tx 78645-5650	512-535-3285 512-535-3286 rick@austin-underground.COM	MDB	M/Hispanic	SL

**City of Austin
Subcontract Vendor List - VCRCVS**

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

Version No.: 1

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C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	VS0000028230 CVI Development, LLC. 1801 Lavaca 2-J Austin Tx 78701	512-944-0280 512-597-2767 KarlDaniels.mac@me.com	MDB	M/African American	AU
	VC0000102940 GARCIA J CONTRACTORS INC 10005 Fm 1625 Austin Tx 78747	512-965-4274 JGARCIA7627@AUSTIN.RR.COM	MDB	M/Hispanic	AU
	HHL7086095 H&H FORADORY CONSTRUCTION INC 9220 Burklund Farms Road Del Valle Tx 78617-5328	512-243-2378 512-243-1518 HENRYB@AUSTIN.RR.COM	MDB	M/Hispanic	AU
	JOH2629800 JOHNSON HAULING LLC 1805 Elmira Austin Tx 78721	512-928-1060 512-926-4180 johnsonhauling@hpeprint.com	MB	M/African American	AU
	MUN7143465 MUNIZ CONCRETE & CONTRACTING INC Po Box 6596 Austin Tx 78762	512-385-2334 512-389-1446 rudym@munizcontracting.com	MDB	M/Hispanic	AU
	VC0000101184 TRAVIS PAVING & EXCAVATING INC 1190 Fm 969 Bastrop Tx 78602	512-303-9988 512-303-9977 TRAVISPAE@AOL.COM	MWDB	F/Hispanic	SL
	TRI7012850 TRI RECYCLING INC Po Box 26499 Austin Tx 78755-0499	512-329-0172 512-329-0174 trirecycle@aol.com	MDB	M/Hispanic	AU
	V00000919925 Underground Water Solutions Co. Po Box 1355 Elgin Tx 78621	5122789333 5122789133 zoila@uwsco.net	MDB	F/Hispanic	SL
91340 Construction, Pipeline					
	AUS8321418 AUSTIN UNDERGROUND INC Po Box 5650 Lago Vista Tx 78645-5650	512-535-3285 512-535-3286 rick@austin-underground.COM	MDB	M/Hispanic	SL
	V00000918492 Austin Formula Utilities LLC. 3701 Hobbs Cove Austin Tx 78749	512-828-7521 5122983709 austinformulautilities@gmail.com	MDB	M/Hispanic	AU

**City of Austin
Subcontract Vendor List - VCRCVS**

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Version No.: 1

Phase: 1

C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	CEN8321007 CENTRAL ROAD AND UTILITY LTD 8760 A Research Blvd #192 Austin Tx 78758	512-989-2602 512-989-2698 RMARTINEZ@ROADANDUTILITY.COM	MDB	M/Hispanic	AU
	FAC8317993 FACILITIES REHABILITATION INC 9120 S Fm 973 Austin Tx 78719	512-352-6035 512-352-6036 annette@facrehab.com	MB	M/Hispanic	AU
	V00000911255 Guerra Underground LLC 9810 Fm 969 Austin Tx 78724	512-825-9580 3126665810 utilityrehab@yahoo.com	MDB	M/Hispanic	AU
	PEA7124270 PEABODY GENERAL CONTRACTORS INC Po Box 3 Dripping Springs Tx 78620-0003	800-443-7457 512-858-4132 shelley@peabodygeneral.com	WB	F/Caucasian	SL
	VS0000024973 Prota, Inc. P.O. Box 342195 Austin Tx 78734	512-535-2555 5125355441 info@protaconstruction.com	MWB	F/Hispanic	AU
	ROY7135410 ROYAL VISTA INC 350 County Rd 260 Liberty Hill Tx 78642-6202	512-515-6824 512-515-6829 maydale@royalvistainc.com	WDB	F/Caucasian	SL
	V00000922250 Rucoba & Maya Construction, LLC 1201 Grove Blvd. #2903 Austin Tx 78741	8328676673 rudy@rucobaconstruction.com	MDB	M/Hispanic	AU
	SAN8316404 SANTA CLARA CONSTRUCTION LTD 9811 Anderson Mill Road, Ste 201 Austin Tx 78750	512-250-8310 512-250-8371 z.forth@sbcglobal.net	MB	M/Hispanic	AU
	DOU8314208 SETO VARGAS UTILITIES INC 5300 Navarro Creek Rd Del Valle Tx 78617	5125609972 yeyevargas@yahoo.com	MB	M/Hispanic	AU
	V00000919925 Underground Water Solutions Co. Po Box 1355 Elgin Tx 78621	5122789333 5122789133 zoila@uwsco.net	MDB	F/Hispanic	SL

91347 Construction, Sidewalk and Driveway (incl Handicapped ramps)

**City of Austin
Subcontract Vendor List - VCRCVS**

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C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
V00000927571 APV CONSTRUCTION AND REMODELING LLC 1008 York Castle Dr Pflugerville Tx 78660		5128100304 perezconstructionandremodel@gmail.com	MDB	M/Hispanic	AU
ASD7048240 ASD CONSULTANTS INC 8120 N Ih 35 Austin Tx 78753		512-836-3329 512-836-3802 curtis2aia@aol.com	MDB	M/African American	AU
VS0000017696 AUSTIN CONSTRUCTORS LLC 7907 S Fm 973 Austin Tx 78719		512-386-8690 5123868695 info@austinconstructors.com	MDB	M/Hispanic	AU
AUS8321418 AUSTIN UNDERGROUND INC Po Box 5650 Lago Vista Tx 78645-5650		512-535-3285 512-535-3286 rick@austin-underground.COM	MDB	M/Hispanic	SL
CEN8321007 CENTRAL ROAD AND UTILITY LTD 8760 A Research Blvd #192 Austin Tx 78758		512-989-2602 512-989-2698 RMARTINEZ@ROADANDUTILITY.COM	MDB	M/Hispanic	AU
V00000920808 CL Concrete Construction Corporation Po Box 971 Taylor Tx 76574		8179170542 5123580718 annette@clconcreteconstructioncorp.com	MWB	F/Hispanic	SL
V00000922353 D&S Texas Icon Construction, LLC 1901 Onion Creek Pkwy #14202 Austin Tx 78748		9564601290 5123835639 ds_txiconconstruction@yahoo.com	MDB	M/Hispanic	AU
V00000906584 DAVID DELA CERDA 2302 Southwood Hills Dr Taylor Tx 76574		512-496-0864 1 5123651231 dlc.laguna@yahoo.com	MDB	M/Hispanic	SL
VC0000102940 GARCIA J CONTRACTORS INC 10005 Fm 1625 Austin Tx 78747		512-965-4274 JGARCIA7627@AUSTIN.RR.COM	MDB	M/Hispanic	AU
GIB8314791 GIBSON CONCRETE L L C 4613 Priem Lane Pflugerville Tx 78660		512-251-4636 512-251-7986 misty@gibson-concrete.com	MWDB	F/Hispanic	AU
VC0000101859 JB ASPHALT PAVING & GRADING LLC Po Box 92856 Austin Tx 78709		512-851-7202 512-288-1560 NORMA@JBASPHALTANDGRADING.COM	MDB	M/Hispanic	AU

**City of Austin
Subcontract Vendor List - VCRCVS**

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C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	JOH2629800 JOHNSON HAULING LLC 1805 Elmira Austin Tx 78721	512-928-1060 512-926-4180 johnsonhauling@hpeprint.com	MB	M/African American	AU
	V00000932848 Juan Carlos Garza 11233 Kirkland Hill Path Austin Tx 78754	8307036846 8007036846 corzacontruction@outlook.com	MDB	M/Hispanic	AU
	MUN7143465 MUNIZ CONCRETE & CONTRACTING INC Po Box 6596 Austin Tx 78762	512-385-2334 512-389-1446 rudy@munizcontracting.com	MDB	M/Hispanic	AU
	PEA7124270 PEABODY GENERAL CONTRACTORS INC Po Box 3 Dripping Springs Tx 78620-0003	800-443-7457 512-858-4132 shelley@peabodygeneral.com	WB	F/Caucasian	SL
	PIA8322157 PIATRA INC Po Box 9593 Austin Tx 78766-9593	512-299-0404 -- INFO@PIATRINC.COM	WDB	F/Caucasian	AU
	PRI7031445 PRISM DEVELOPMENT INC 2709 E 5th St Austin Tx 78702-4729	512-479-9587 100 5124799591 betty@prismdevelopmentinc.com	MDB	M/Hispanic	AU
	VS0000024973 Prota, Inc. P.O. Box 342195 Austin Tx 78734	512-535-2555 5125355441 info@protaconstruction.com	MWB	F/Hispanic	AU
	V00000922250 Rucoba & Maya Construction, LLC 1201 Grove Blvd. #2903 Austin Tx 78741	8328676673 rudy@rucobaconstruction.com	MDB	M/Hispanic	AU
	VC0000101184 TRAVIS PAVING & EXCAVATING INC 1190 Fm 969 Bastrop Tx 78602	512-303-9988 512-303-9977 TRAVISPAE@AOL.COM	MWDB	F/Hispanic	SL
	VS0000006907 TRINI CONSTRUCTION BUILDER LLC Po Box 81431 Austin Tx 78708	512-282-2262 512-535-7962 info@triniconstructionbuilder.com	MDB	M/African American	AU
	UNI7027985 UNISM DEVELOPMENT CO INC Po Box 14145 Austin Tx 78761-4145	512-255-3726 512-255-1451 unism@sbcglobal.net	MB	M/African American	AU

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C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	V00000900746 Under Construction, Inc. 233 W. Anderson Lane, Suite B505 Austin Tx 78752	512-900-7956 5129007957 info@ucitexas.com	MDB	M/African American	AU
	V00000911146 XEVEX CONSTRUCTION LLC Po Box 681 Buda Tx 78610	512-312-4214 5123124637 info@xevexllc.com	MDB	M/Hispanic	SL
9135020 BASE COURSE, AGGREGATE.					
	AUS8321418 AUSTIN UNDERGROUND INC Po Box 5650 Lago Vista Tx 78645-5650	512-535-3285 512-535-3286 rick@austin-underground.COM	MDB	M/Hispanic	SL
	CEN8321007 CENTRAL ROAD AND UTILITY LTD 8760 A Research Blvd #192 Austin Tx 78758	512-989-2602 512-989-2698 RMARTINEZ@ROADANDUTILITY.COM	MDB	M/Hispanic	AU
	VS0000028230 CVI Development, LLC. 1801 Lavaca 2-J Austin Tx 78701	512-944-0280 512-597-2767 KarlDaniels.mac@me.com	MDB	M/African American	AU
	VS0000016867 PANTHER CREEK TRANSPORTATION INC Po Box 2715 Georgetown Tx 78627	512-746-4224 512-746-5103 Natalia@panthercreektransportation.com	MWDB	F/Hispanic	SL
	V00000922250 Rucoba & Maya Construction, LLC 1201 Grove Blvd. #2903 Austin Tx 78741	8328676673 rudy@rucobaconstruction.com	MDB	M/Hispanic	AU
	VC0000101184 TRAVIS PAVING & EXCAVATING INC 1190 Fm 969 Bastrop Tx 78602	512-303-9988 512-303-9977 TRAVISPAE@AOL.COM	MWDB	F/Hispanic	SL
	V00000919925 Underground Water Solutions Co. Po Box 1355 Elgin Tx 78621	5122789333 5122789133 zoila@uwsco.net	MDB	F/Hispanic	SL
9136048 MANHOLES, CONSTRUCTION OF. THIS WORK SHALL CONSIST					
	VS0000017696 AUSTIN CONSTRUCTORS LLC 7907 S Fm 973 Austin Tx 78719	512-386-8690 5123868695 info@austinconstructors.com	MDB	M/Hispanic	AU

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	V00000918492 Austin Formula Utilities LLC. 3701 Hobbs Cove Austin Tx 78749	512-828-7521 5122983709 austinformulautilities@gmail.com	MDB	M/Hispanic	AU
	CEN8321007 CENTRAL ROAD AND UTILITY LTD 8760 A Research Blvd #192 Austin Tx 78758	512-989-2602 512-989-2698 RMARTINEZ@ROADANDUTILITY.COM	MDB	M/Hispanic	AU
	V00000920808 CL Concrete Construction Corporation Po Box 971 Taylor Tx 76574	8179170542 5123580718 annette@clconcreteconstructioncorp.com	MWB	F/Hispanic	SL
	FAC8317993 FACILITIES REHABILITATION INC 9120 S Fm 973 Austin Tx 78719	512-352-6035 512-352-6036 annette@facrehab.com	MB	M/Hispanic	AU
	V00000911255 Guerra Underground LLC 9810 Fm 969 Austin Tx 78724	512-825-9580 3126665810 utilityrehab@yahoo.com	MDB	M/Hispanic	AU
	VS0000030611 Lewis Concrete Restoration 405 Ware Dr Buda Tx 78610	512-983-3283 sherrylewis@austin.rr.com	MWB	F/Hispanic	SL
	PEA7124270 PEABODY GENERAL CONTRACTORS INC Po Box 3 Dripping Springs Tx 78620-0003	800-443-7457 512-858-4132 shelley@peabodygeneral.com	WB	F/Caucasian	SL
	VS0000024973 Prota, Inc. P.O. Box 342195 Austin Tx 78734	512-535-2555 5125355441 info@protaconstruction.com	MWB	F/Hispanic	AU
	ROY7135410 ROYAL VISTA INC 350 County Rd 260 Liberty Hill Tx 78642-6202	512-515-6824 512-515-6829 maydale@royalvistainc.com	WDB	F/Caucasian	SL
	V00000922250 Rucoba & Maya Construction, LLC 1201 Grove Blvd. #2903 Austin Tx 78741	8328676673 rudy@rucobaconstruction.com	MDB	M/Hispanic	AU

91438 Electrical

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	ADV8309626 AWS INC 4402 South Congress Ave Suite 203 Austin Tx 78745	512-233-4638 512-441-9473 mhuerta@awsolutions.net	MDB	M/Native American	AU
	VS0000027122 Allied Electric Services, Inc. 4355 E University Ave Georgetown Tx 78626	5129300767 5128681250 paige@alliedelectric.us	WDB	F/Caucasian	SL
	VS0000014175 Beckett Electrical Services, LLC P.O. Box 81381 Austin Tx 78708	512-346-7462 512-231-0151 maureen@besaustin.com	WB	F/Caucasian	AU
	VS0000004131 Chivas Engineering and Consulting, Inc 9901 Brodie Ln Suite 160-246 Austin Tx 78748	512-217-0853 5124020545 vasant@chivascorp.com	MDB	F/Asian	AU
	V00000919377 EDGE ELECTRIC, INC. Po Box 252 Driftwood Tx 78619	512-853-9647 5128539020 sandra@edgeelectricinc.com	WB	F/Caucasian	SL
	VC0000102053 GERALD NUNN ELECTRIC LLC 410 N Patterson Ave Florence Tx 76527	254-793-3539 254-793-4263 Gerald@gnellctx.com	MDB	M/Native American	SL
	V00000930006 GOVERNMENT INTERIOR SOLUTIONS INC 1301 S Capital Of Tx Hwy Suite B-125 Austin Tx 78746	5127669050 5018013743 nick@pdngroup.com	MDB	M/Native American	AU
	JSE8303419 J S ELECTRIC INC 4702 Fm 1327 Buda Tx 78610	512-243-2700 512-243-2702 jschmidt@jselectric.com	MWDB	F/Hispanic	SL
	MER7159380 MERCURY ELECTRIC CO INC Po Box 587 Liberty Hill Tx 78642-0587	512-515-5557 512-515-5054 flymercelec@sbcglobal.net	WB	F/Caucasian	SL
	VS0000007788 Merrigan Electric LLC 706 Riva Ridge Dr Leander Tx 78641	5129443217 5125927988 cmerrigan01@yahoo.com	WDB	F/Caucasian	SL
	POW8300999 POWER QUALITY ENGINEERING INC 3061 Woodall Dr Bldg A Cedar Park Tx 78613-7225	512-267-6656 512-267-0989 vbloom@pqeinc.com	MWB	F/Hispanic	AU

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	TEX8311982 TEXAS SOLAR POWER COMPANY 6448 Hwy 290e Ste C111 Austin Tx 78723	512-459-9494 512-451-5934 joe@txspc.com	MDB	M/Hispanic	AU
	VS000006907 TRINI CONSTRUCTION BUILDER LLC Po Box 81431 Austin Tx 78708	512-282-2262 512-535-7962 info@triniconstructionbuilder.com	MDB	M/African American	AU
	V00000913974 Williams Trinity Electric, LLC 339 Precipice Way Georgetown Tx 78626	512-887-0894 5125917051 roniwilliams53@yahoo.com	MDB	M/African American	SL
91572 Photography (Not Including Aerial Photography)					
	ALL8308356 ALL POINTS INSPECTION SVCS INC 6613 Bramber Ln Austin Tx 78754	512-272-5056 512-272-8278 AUSTIN@APISGROUP2.COM	MWDB	F/African American	AU
	VS0000010052 Concept Development & Planning, LLC P.O. Box 5459 Austin Tx 78763-5459	512-533-9100 12 512-533-9101 agray@cdandp.com	WDB	F/Caucasian	AU
	V00000900636 Esperanza C White P.O. Box 1202 Dripping Springs Tx 78620	512-858-4949 5128581949 whitephotosvcs@gmail.com	MWDB	F/Hispanic	SL
	GEO8314031 GEOSEARCH LLC 3006 Bee Caves Rd Ste A230 Austin Tx 78746-5686	512-472-9966 5124729967 scott.davis@geo-search.com	WDB	F/Caucasian	AU
	VS0000008581 GLOBAL ENGINEERS INC 4219 Pebblestone Trl Round Rock Tx 78665-5027	512-417-3172 512-246-2212 munirmkhan@gmail.com	MDB	M/Asian	AU
	V00000936623 Jennifer Weems 206 Bellagio Dr Austin Tx 78734-5082	5126607381 5126607381 jennifer@jenniferweems.com	WB	F/Caucasian	AU
	V00000909016 Keep it Digital, LLC 2206 Sandra Dr. Cedar Park Tx 78613	512-217-3177 5129297019 mike_mclennan@keepitdigital.com	MDB	M/African American	AU
	VS0000031322 LaTonya J Pegues 1701 Intervail Dr Austin Tx 78746	512-686-3664 lpegues@BOAZent.com	MWDB	F/African American	AU

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	V00000902341 Louis Paul Podraza 8400 Daleview Drivea Austin Tx 78757	512-917-9822 5124501884 podjcash@gmail.com	MB	M/Hispanic	AU
	V00000915343 Majestic Services Inc 8120 North Ih 35, Suite 101 Austin Tx 78753	512-470-9221 5128363802 majesticsvinc@aol.com	MWDB	F/African American	AU
	VC0000102100 NANCY LEDBETTER & ASSOCIATES INC 20020 Farm Pond Ln Pflugerville Tx 78660	512-694-7797 512-252-8322 NANCY@NANCYLEDBETTER.COM	WDB	F/Caucasian	AU
	VS0000025076 Naomi J Richard P. O. Box 90644 Austin Tx 78709-0644	512-796-1547 5128922113 naomi@whiteglovephotos.com	MWDB	F/African American	AU
	V00000921129 Power Of Two Productions, LLC 9901 Brodie Ln 160-279 Austin Tx 78748	5128725000 leeann@ptwopromo.com	MWDB	F/Hispanic	AU
	VC0000102926 RAMA TIRUMALACHAR 13105 Hymeadow Circle Austin Tx 78729	512-773-6684 877-216-4544 TIRUGALLERY@GMAIL.COM	MWDB	F/Asian	AU
	DIV8319156 SALLIE BURCHETT 2003 La Casa Dr Austin Tx 78704-4720	512-473-2527 INFO@DIVAIMAGING.COM	WDB	F/Caucasian	AU
	V00000926948 Stephanie Braun Clayton LLC 812 W Gibson St Austin Tx 78704	5125470719 stephaniebraunclayton@gmail.com	WDB	F/Caucasian	AU
96239 Hauling Services					
	VC0000102408 ALVIN WASHINGTON TRUCKING INC Po Box 14872 Austin Tx 78761	512-339-2292 512-339-7219 a.washingtontruckn@yahoo.com	MDB	M/African American	AU
	V00000931566 Alberto R Guerra 1302-A Highway 71 W Bastrop Tx 78602	9565926522 8777204070 albertoguerra@riograndecargo.com	MDB	M/Hispanic	SL

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	VC0000101882 BARBARA WHITE 9701 Wayside Blvd Austin Tx 78724	512-626-7642 512-933-9699 bwbmwtrucking@gmail.com	MWDB	F/African American	AU
	V00000922619 BENITO MUNOZ Po Box 70 Maxwell Tx 78656	5127498126 5123574065 erikrmunoz@yahoo.com	MDB	M/Hispanic	LO
	RAN8308638 BONIFACIO REYES RANGEL 2108 E 16th St Austin Tx 78702	512-276-0038 512-469-0597 mr.rangel@sbcglobal.net	MDB	M/Hispanic	AU
	V00000915488 BRIDGET C THOMAS 2021 Airport Blvd Austin Tx 78722	512-382-9285 5123829299 bubblez.suddz.carwash@gmail.com	MWDB	F/African American	AU
	V00000901790 Bedrock Transportation, LLC 13492 Research Blvd Suite 120-622 Austin Tx 78750-2254	512-535-5580 5125191105 leslie@bedrocktransportation.com	WDB	F/Caucasian	AU
	V00000922958 Brian Castro 8038 Exchange Drive Appt# 239 Austin Tx 78754	5122845305 5126141902 b.castro2404@gmail.com	MDB	M/Hispanic	AU
	CGA8319026 C GARCIA TRUCKING 12730 Laws Rd Buda Tx 78610-9695	512-801-8945 512-243-3571 texasboring@yahoo.com	MDB	M/Hispanic	SL
	VC0000101644 CD TRUCKING INC 8000 Margo Cove Buda Tx 78610	5128012299 5123738525 cdtruckinginc01@yahoo.com	MDB	M/Hispanic	SL
	V00000916591 CLAUDIA SERNA 2700 Cherry Blossom Ct San Marcos Tx 78666	512-466-7084 5123924726 serna.trucking@gmail.com	MWDB	F/Hispanic	SL
	VC0000103459 COMANCHE XPRESS LLC Po Box 144402 Austin Tx 78714	512-771-2692 512-904-0022 COMANCHEEXPRESS@AUSTIN.RR.COM	MDB	M/African American	AU
	V00000911561 Cantu Construction Inc 14806 Eilers Rd Austin Tx 78719	512-844-5545 5122439650 cantu-construction-inc@hotmail.com	MDB	M/Hispanic	AU

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	V00000911499 Cynthia Cueva-Luna Po Box 3560 Pflugerville Tx 78691	512-769-0752 8883554419 alphatransportation@hotmail.com	MWDB	F/Hispanic	SL
	V00000935995 Felis Balderas Sr. 6803 Viewing Place Austin Tx 78719	5124481420 5124481420 f.balderasfamily@hotmail.com	MDB	M/Hispanic	AU
	VC0000102940 GARCIA J CONTRACTORS INC 10005 Fm 1625 Austin Tx 78747	512-965-4274 JGARCIA7627@AUSTIN.RR.COM	MDB	M/Hispanic	AU
	HHL7086095 H&H FORADORY CONSTRUCTION INC 9220 Burkland Farms Road Del Valle Tx 78617-5328	512-243-2378 512-243-1518 HENRYB@AUSTIN.RR.COM	MDB	M/Hispanic	AU
	VS0000004462 Ivy Rosalva Cruz 7733 Marble Crest Dr. Austin Tx 78747	512-577-6199	MWDB	F/Hispanic	AU
	JAR8315720 J A ROAD BORING 1000 Dacy Ln Kyle Tx 78640-5143	512-268-4312 512-268-0974 jaroadboring@yahoo.com	MB	M/Hispanic	SL
	JAG8307217 JAG TRUCKING INC 800 Private Rd 917 Georgetown Tx 78626	512-864-9906 512-864-3121 GILLY@JAGTRUCKING.COM	MDB	M/Hispanic	SL
	V00000929975 JIMMY ARREDONDO 130 Escondido Dr Del Valle Tx 78617	5128445976 lonestartucking@austin.rr.com	MDB	M/Hispanic	AU
	JOH2629800 JOHNSON HAULING LLC 1805 Elmira Austin Tx 78721	512-928-1060 512-926-4180 johnsonhauling@hpeprint.com	MB	M/African American	AU
	VS0000027653 JUAN DEANDA TRUCKING LLC 5101 Hwy 21 Maxwell Tx 78656	512-748-1537 5122856596 juandeandatuckingllc@yahoo.com	MDB	M/Hispanic	LO
	LIL7079660 LILLIE'S TRUCKING INC 1110 Radam Cir Austin Tx 78745-3018	512-444-9562 email@notprovided.xxx	WB	F/Caucasian	AU

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	V00000925782 Lewis Clark Trucking, LLC 14815 Avery Ranch Blvd Unit 2302 Austin Tx 78717	3134024398 citytransportersinc@gmail.com	MDB	M/African American	AU
	MAR7095015 MARIE'S TRUCKING 2314 Wagon Crossing Path Austin Tx 78744-4330	512-441-0775 512-441-0549 mariekellough@yahoo.com	MWDB	F/Asian	AU
	MEL8302760 MELENDREZ TRUCKING LLC 11608 Moore Rd Austin Tx 78719-9652	512-243-3977 512-243-3947 meltrks@melendreztrucking.com	MWDB	F/Hispanic	AU
	VC0000102842 MG LIMON CORPORATION 124 Juarez Cv Del Valle Tx 78617	512-791-4369 512-291-6132 GLIMONHAULINGCO@YAHOO.COM	MDB	M/Hispanic	AU
	MUN7143465 MUNIZ CONCRETE & CONTRACTING INC Po Box 6596 Austin Tx 78762	512-385-2334 512-389-1446 rudy@munizcontracting.com	MDB	M/Hispanic	AU
	V00000935429 Oviedo Trucking LLC 3820 Julianas Way Round Rock Tx 78665	5123732019 oviedoadiran@yahoo.com	MDB	M/Hispanic	AU
	VS0000016867 PANTHER CREEK TRANSPORTATION INC Po Box 2715 Georgetown Tx 78627	512-746-4224 512-746-5103 Natalia@panthercreektransportation.com	MWDB	F/Hispanic	SL
	VS0000020631 RAMI MATERIALS TRANSPORT LLC 7719 Mcangus Rd Del Valle Tx 78617	512-845-8358 866-800-5957 RAMITRANS@AOL.COM	MDB	M/Hispanic	AU
	RAM8306287 RAMI TRANSPORTATION INC 7719 Mcangus Rd Del Valle Tx 78617-5911	512-845-8358 512-247-6416 ramitrans@aol.com	MB	M/Hispanic	AU
	VC0000103438 RBR TRUCKING INC 1126 Welch Way Cedar Park Tx 78613	512-809-6214 512-260-3354 RONALDDELI@SBCGLOBAL.NET	MDB	M/Hispanic	AU
	MMT3262750 ROBERT M MEDEL SR 10811 San Jose Ave Del Valle Tx 78617-5903	5127362051 512-243-1093 carrillo1957@aol.com	MDB	M/Hispanic	AU

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	V00000934972 RUBEN P ROCHA 8501 S Fm 973 Rd. Austin Tx 78719	5129981633 rubenrocha777@gmail.com	MDB	M/Hispanic	AU
	VS0000010430 Ralph Anthony Wright 1716 Meander Dr Austin Tx 78721	512-791-3644 512-420-8373 wright_ralph@yahoo.com	MDB	M/African American	AU
	V00000905724 Robert E Ashford P O Box 16478 Austin Tx 78761	512-247-1293 ashnemtrucking@hotmail.com	MDB	M/African American	AU
	V00000933636 Robert M Medel 10811 San Jose Venue Del Valle Tx 78617	5128500827 5122439414 medeltrucking@yahoo.com	MDB	M/Hispanic	AU
	SAM7042190 SAMMIE J KELLOUGH 2314 Wagon Crossing Path Austin Tx 78744-4330	512-441-0775 512-441-0549 kelloughj@aol.com	MDB	M/African American	AU
	DOU8314208 SETO VARGAS UTILITIES INC 5300 Navarro Creek Rd Del Valle Tx 78617	5125609972 yeyevargas@yahoo.com	MB	M/Hispanic	AU
	TEX4863000 TEXAS TRUCKING CO INC 3900 Shell Rd Georgetown Tx 78628-9249	512-868-5558 512-930-0298 GEORGETTC@YAHOO.COM	MDB	M/Hispanic	SL
	VC0000101184 TRAVIS PAVING & EXCAVATING INC 1190 Fm 969 Bastrop Tx 78602	512-303-9988 512-303-9977 TRAVISPAE@AOL.COM	MWDB	F/Hispanic	SL
	TRI7012850 TRI RECYCLING INC Po Box 26499 Austin Tx 78755-0499	512-329-0172 512-329-0174 trirecycle@aol.com	MDB	M/Hispanic	AU
96896 Water and Wastewater Treatment Services					
	VS0000030611 Lewis Concrete Restoration 405 Ware Dr Buda Tx 78610	512-983-3283 sherrylewis@austin.rr.com	MWB	F/Hispanic	SL
	ARI0290800 THE ARIZPE GROUP INC 6330 E Hwy 290 Ste 375 Austin Tx 78723-1156	512-339-3707 512-339-3709 Robert.Arizpe@Arizpe.com	MDB	M/Hispanic	AU

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97773 Toilets, Portable, Rental or Lease					
	VS0000015442 Liquid Waste Solutions, LLC Po Box 1437 Buda Tx 78610	5125298816 5122332587 stritico@liquidwastetx.com	WDB	F/Caucasian	SL
98814 Erosion Control Services					
	VC0000102203 ABC EROSION CONTROL INC 23407 Fulkes Lane Leander Tx 78641	512-259-3894 5122594467 vsanchez@abceci.com	MWDB	F/Hispanic	SL
	AUS8306086 AUSTEX TREE SERVICE INC Po Box 6089 Round Rock Tx 78683-6086	512-248-0082 512-248-8807	MDB	M/African American	SL
	VC0000102723 AVERY'S LAWN CARE & LANDSCAPING LLC 2002 Savannah Ct Round Rock Tx 78681	512-845-6251 512-388-7303 averyslawncafe@att.net	MDB	M/African American	SL
	CGE8308640 CGE INC 4408 Hwy. 183 S. Austin Tx 78702	512-301-9652 512-394-0293 cgecarlos@austin.rr.com	MDB	M/Hispanic	AU
	ENV7167715 ENVIRONMENTAL SURVEY INC 4602 Placid Pl Austin Tx 78731-5515	512-458-8531 512-458-1929 jcwalthers@envirosurvey.com	WB	F/Caucasian	AU
	VS0000012711 Environmental Safety Services Inc. 14101 Hwy 290 W Bldg. 400, Suite C Austin Tx 78737	512-989-2259 5123729375 enviross@hotmail.com	MDB	M/Hispanic	SL
	JOH2629800 JOHNSON HAULING LLC 1805 Elmira Austin Tx 78721	512-928-1060 512-926-4180 johnsonhauling@hpeprint.com	MB	M/African American	AU
	V00000926331 M & R GENERAL CONTRACTING LLC 13110 W Hwy 290 Suite 305 Austin Tx 78737	5129640590 norma.brito1@gmail.com	MWB	F/Hispanic	SL

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	ROA7009475 ROADWAY SPECIALTIES INC Po Box 90309 Austin Tx 78709-0309	512-280-6666 512-280-6066 stthomas@roadwayspecialties.com	WB	F/Caucasian	AU
	V00000921504 TERRA ECOSERVICES LLC 11006 Swellfling Terrace Austin Tx 78737	5122882167 hross@terraecoservices.com	WDB	F/Caucasian	SL
98838 Hydromulching Services					
	ADV7008080 AFFORDABLE LAWN CARE AND LANDSCAPING INC 13523 Pond Springs Rd Austin Tx 78729-4415	512-918-8009 512-918-0162 vincent@advancelandscapedesign.com	MWB	F/Hispanic	AU
	AUS8306086 AUSTEX TREE SERVICE INC Po Box 6089 Round Rock Tx 78683-6086	512-248-0082 512-248-8807	MDB	M/African American	SL
	VC0000102723 AVERY'S LAWN CARE & LANDSCAPING LLC 2002 Savannah Ct Round Rock Tx 78681	512-845-6251 512-388-7303 averyslawncare@att.net	MDB	M/African American	SL
	ENV7167715 ENVIRONMENTAL SURVEY INC 4602 Placid Pl Austin Tx 78731-5515	512-458-8531 512-458-1929 jcwalthers@envirosurvey.com	WB	F/Caucasian	AU
	V00000905731 KIN PERFORMANCE CONTRACTORS LLC Po Box 140884 Austin Tx 78714	512-983-4529 5129283042 kathleen@kincontracting.com	MWDB	F/Asian	AU
	ROA7009475 ROADWAY SPECIALTIES INC Po Box 90309 Austin Tx 78709-0309	512-280-6666 512-280-6066 stthomas@roadwayspecialties.com	WB	F/Caucasian	AU
	ROY7135410 ROYAL VISTA INC 350 County Rd 260 Liberty Hill Tx 78642-6202	512-515-6824 512-515-6829 maydale@royalvistainc.com	WDB	F/Caucasian	SL
	WOO7143440 WOOLERY CUSTOM FENCE CO P.O. Box 986 Elgin Tx 78621-5585	512-281-2186 512-233-5396 bids@wooleryfence.com	WDB	F/Caucasian	SL

**City of Austin
Subcontract Vendor List - VCRCVS**

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

Version No.: 1

Phase: 1

C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
----------------------	---------------	-----------------	-----------	-----	------

**City of Austin
Subcontract Vendor List - VCRCVS**

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

Version No.: 1

Phase: 1

C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
----------------------	---------------	-----------------	-----------	-----	------

Vendors Outside the SLBP Area

33013 Fencing, Chain Link (Including Fabric, Gates, Pane

CON7107060 CONROE WOOD PRODUCTS INC 804 West Dallas Ste #1 Conroe Tx 77301-2208	888-636-3098 936-760-2975 CONROEWOODPR@CONSOLIDATED.NET	WDB	F/Caucasian	TX
--	---	-----	-------------	----

40509 Fuel Oil, Diesel

VS0000036392 Champion Fuel Solutions P.O. Box 210191 Bedford Tx 76095	877-909-9191 8174851602 prussell@championfs.com	WDB	F/Caucasian	TX
--	---	-----	-------------	----

57076 Steel, Reinforcing, Bars and Rods

TEX7155580 STEPHANIE L GOMEZ-ANDREWS 409 S. Senter Ave Kerens Tx 75144	888-241-4599 903-396-7490 txmt2003@earthlink.net	WDB	F/Hispanic	TX
---	--	-----	------------	----

90976 Site Work

V00000921855 Nova Landscape Group, Inc. 1290 Grandview Drive Rockwall Tx 75087	5126278695 aimeem@novalg.com	MB	M/Asian	TX
---	---------------------------------	----	---------	----

91071 Shoring and Reinforcement Services

V00000933658 The Orduno Holding Company 4500 Fuller Dr. Ste 205 Irving Tx 75038	9727173070 oorduno@oscarordunoinc.com	MB	M/Hispanic	TX
VC0000102952 WILLIAMS TUNNELING INDUSTRIES INC 18922 Woodglen Shadows Humble Tx 77396	8328891468 512-285-3477 WILLIAMS_EDISON@YAHOO.COM	MDB	M/African American	TX

9124425 EXCAVATION, BORROW. CONSISTS OF EXCAVATING, TRANSP

**City of Austin
Subcontract Vendor List - VCRCVS**

Solicitation No.: **IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant**

Version No.: **1**

Phase: **1**

C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	V00000917830 Earthco Landscape Construction LLC 4500 Williams Dr. Suite 212-108 Georgetown Tx 78633	5128187015 5129438333 earthcolc@aol.com	MDB	M/African American	TX
	VC0000102952 WILLIAMS TUNNELING INDUSTRIES INC 18922 Woodglen Shadows Humble Tx 77396	8328891468 512-285-3477 WILLIAMS_EDISON@YAHOO.COM	MDB	M/African American	TX
91340 Construction, Pipeline					
	V00000917138 PROLIFIC ENTERPRISES INC 4146 W. Hwy 79 Rockdale Tx 76567	512-848-1554 info@prolificinc.us	WDB	F/Caucasian	TX
	V00000904196 SCORPIONS WELDING & FABRICATION, LLC 1109 Coombs Creek Drive Dallas Tx 75211	214-908-6480 2149414214 mgarcia@scorpionswelding.com	MB	M/Hispanic	TX
91347 Construction, Sidewalk and Driveway (incl Handicapped ramps)					
	V00000920091 Tejas Premier Building Contractor, Inc. 1811 S. Laredo St. San Antonio Tx 78207	2108215858 2108215862 julissa@tejaspremierbc.com	MWDB	/Hispanic	TX
9136048 MANHOLES, CONSTRUCTION OF. THIS WORK SHALL CONSIST					
	VS0000027166 SKE Construction, LLC Po Box 1111 Cypress Tx 77410	281-585-4100 281-585-5707 shelly@ske1.net	MWB	F/Native American	TX
	VC0000102952 WILLIAMS TUNNELING INDUSTRIES INC 18922 Woodglen Shadows Humble Tx 77396	8328891468 512-285-3477 WILLIAMS_EDISON@YAHOO.COM	MDB	M/African American	TX
91438 Electrical					
	HSC8318931 HSC ELECTRIC COMPANY INC 4131 Mount Laurel Drive San Antonio Tx 78240	210-382-4048 210-735-1560 HSC_ELECTRIC@YAHOO.COM	MDB	M/Hispanic	TX

**City of Austin
Subcontract Vendor List - VCRCVS**

Solicitation No.: IFB 6100 CLMC600 Taylor Lane 0.1 MGD Wastewater Treatment Plant

Version No.: 1

Phase: 1

C Code & Description	Vend Code/Adr	Phone/Fax/Email	W/MB Code	G/E	LCTN
	KAM8305026 KAMO ENERGY INC 1201 Universal City Blvd Universal City Tx 78148-3352	210-566-9800 2105669801 kamoenergy@msn.com	MB	F/Asian	TX
	MCC6020925 MACAULAY CONTROLS CO Po Box 890231 Houston Tx 77289-0231	800-299-1148 281-282-0077 khollway@macaulaycontrols.com	WB	F/Caucasian	TX
96239 Hauling Services					
	V00000917830 Earthco Landscape Construction LLC 4500 Williams Dr. Suite 212-108 Georgetown Tx 78633	5128187015 5129438333 earthcolc@aol.com	MDB	M/African American	TX
	VS0000027560 SAR Transportation, L.L.C. 1101 Jarvis Road Saginaw Tx 76179-5612	817-232-2599 817-232-0955 pam@sartrans.com	WDB	F/Caucasian	TX
96896 Water and Wastewater Treatment Services					
	VS0000027333 Green and Sustainable Services, LLC 2421 Amyx Ranch Drive Ponder Tx 76259	940-597-3723 9404792009 tsmith@grnserv.com	WDB	F/Caucasian	TX
	V00000904056 Terra Nova Consulting, Inc. 2425 Fountain View Drive, Suite 310-B Houston Tx 77057	713-482-8787 8322022524 lina.jazi@ternov.com	WDB	F/Caucasian	TX
98814 Erosion Control Services					
	V00000924928 Urban Infrastructure Group, Inc. Po Box 729 Donna Tx 78537	9564644710 9564644714 cgonzalez@uigtexas.com	MB	M/Hispanic	TX
			Total in SLBP:	217	
			Total Outside SLBP:	21	

Abayomi Olusegun Adekoya
2038 Charlotte Way
Round Rock, Tx 78664

Abc Erosion Control Inc
23407 Fulkes Lane
Leander, Tx 78641

Affordable Lawn Care And Landscaping
Inc
13523 Pond Springs Rd
Austin, Tx 78729-4415

All Points Inspection Svcs Inc
6613 Bramber Ln
Austin, Tx 78754

Alvin Washington Trucking Inc
Po Box 14872
Austin, Tx 78761

Apv Construction And Remodeling Llc
1008 York Castle Dr
Pflugerville, Tx 78660

Asd Consultants Inc
8120 N Ih 35
Austin, Tx 78753

Austex Tree Service Inc
Po Box 6089
Round Rock, Tx 78683-6086

Austin Constructors Llc
7907 S Fm 973
Austin, Tx 78719

Austin Underground Inc
Po Box 5650
Lago Vista, Tx 78645-5650

Avery'S Lawn Care & Landscaping Llc
2002 Savannah Ct
Round Rock, Tx 78681

Aws Inc
4402 South Congress Ave
Suite 203
Austin, Tx 78745

Alberto R Guerra
1302-A Highway 71 W
Bastrop, Tx 78602

Allied Electric Services, Inc.
4355 E University Ave
Georgetown, Tx 78626

Alpha Paving Industries Llc
Po Box 6565
Round Rock, Tx 78683

Alpha Ready Mix Llc
212 Investment Loop
Hutto, Tx 78634

Austin Formula Utilities Llc.
3701 Hobbs Cove
Austin, Tx 78749

Barbara White
9701 Wayside Blvd
Austin, Tx 78724

Benito Munoz
Po Box 70
Maxwell, Tx 78656

Benqwest L L C
2300 E Ben White Blvd
Austin, Tx 78741-7111

Bonifacio Reyes Rangel
2108 E 16th St
Austin, Tx 78702

Bridget C Thomas
2021 Airport Blvd
Austin, Tx 78722

Beckett Electrical Services, Llc
P.O. Box 81381
Austin, Tx 78708

Bedrock Transportation, Llc
13492 Research Blvd
Suite 120-622
Austin, Tx 78750-2254

Brian Castro
8038 Exchange Drive
Appt# 239
Austin, Tx 78754

C Garcia Trucking
12730 Laws Rd
Buda, Tx 78610-9695

Cd Trucking Inc
8000 Margo Cove
Buda, Tx 78610

Central Road And Utility Ltd
8760 A Research Blvd #192
Austin, Tx 78758

Central Texas Barricade Inc
Po Box 1088
Bastrop, Tx 78602-1088

Cge Inc
4408 Hwy. 183 S.
Austin, Tx 78702

CI Concrete Construction Corporation
Po Box 971
Taylor, Tx 76574

Claudia Serna
2700 Cherry Blossom Ct
San Marcos, Tx 78666

Comanche Xpress Llc
Po Box 144402
Austin, Tx 78714

Conroe Wood Products Inc
804 West Dallas Ste #1
Conroe, Tx 77301-2208

Cvi Development, Llc.
1801 Lavaca 2-J
Austin, Tx 78701

Cx2 Construction, Inc.
19507 Fm 150 W
Driftwood, Tx 78619

Cantu Construction Inc
14806 Eilers Rd
Austin, Tx 78719

Champion Fuel Solutions
P.O. Box 210191
Bedford, Tx 76095

Chivas Engineering And Consulting, Inc
9901 Brodie Ln
Suite 160-246
Austin, Tx 78748

Concept Development & Planning, Llc
P.O. Box 5459
Austin, Tx 78763-5459

Cynthia Cueva-Luna
Po Box 3560
Pflugerville, Tx 78691

D&S Texas Icon Construction, Llc
1901 Onion Creek Pkwy #14202
Austin, Tx 78748

David Dela Cerda
2302 Southwood Hills Dr
Taylor, Tx 76574

Diven Valles
1229c Fm 1626
Buda, Tx 78610

Easy Drive Stake Inc
4111 Todd Lane
Suite H
Austin, Tx 78744

Edge Electric, Inc.
Po Box 252
Driftwood, Tx 78619

Environmental Survey Inc
4602 Placid Pl
Austin, Tx 78731-5515

Eagle Pride Supply Llc
13900 Ih 35 Suite D1
Austin, Tx 78727

Earthco Landscape Construction Llc
4500 Williams Dr. Suite 212-108
Georgetown, Tx 78633

Environmental Safety Services Inc.
14101 Hwy 290 W
Bldg. 400, Suite C
Austin, Tx 78737

Esperanza C White
P.O. Box 1202
Dripping Springs, Tx 78620

Facilities Rehabilitation Inc
9120 S Fm 973
Austin, Tx 78719

Felis Balderas Sr.
6803 Viewing Place
Austin, Tx 78719

Garcia J Contractors Inc
10005 Fm 1625
Austin, Tx 78747

Geosearch Llc
3006 Bee Caves Rd Ste A230
Austin, Tx 78746-5686

Gerald Nunn Electric Llc
410 N Patterson Ave
Florence, Tx 76527

Gibson Concrete L L C
4613 Priem Lane
Pflugerville, Tx 78660

Global Engineers Inc
4219 Pebblestone Trl
Round Rock, Tx 78665-5027

Government Interior Solutions Inc
1301 S Capital Of Tx Hwy
Suite B-125
Austin, Tx 78746

Get It Clean, Inc
3736 Bee Caves Rd Ste 1-215
Austin, Tx 78746

Green And Sustainable Services, Llc
2421 Amyx Ranch Drive
Ponder, Tx 76259

Guerra Underground Llc
9810 Fm 969
Austin, Tx 78724

H&H Foradory Construction Inc
9220 Burklund Farms Road
Del Valle, Tx 78617-5328

Hsc Electric Company Inc
4131 Mount Laurel Drive
San Antonio, Tx 78240

Ivy Rosalva Cruz
7733 Marble Crest Dr.
Austin, Tx 78747

J A Road Boring
1000 Dacy Ln
Kyle, Tx 78640-5143

J S Electric Inc
4702 Fm 1327
Buda, Tx 78610

Jag Trucking Inc
800 Private Rd 917
Georgetown, Tx 78626

Jb Asphalt Paving & Grading Llc
Po Box 92856
Austin, Tx 78709

Jimmy Arredondo
130 Escondido Dr
Del Valle, Tx 78617

Johnson Hauling Llc
1805 Elmira
Austin, Tx 78721

Jte Company Llc
Po Box 3605
Pflugerville, Tx 78691

Juan Deanda Trucking Llc
5101 Hwy 21
Maxwell, Tx 78656

Jennifer Weems
206 Bellagio Dr
Austin, Tx 78734-5082

Juan Carlos Garza
11233 Kirkland Hill Path
Austin, Tx 78754

Kamo Energy Inc
1201 Universal City Blvd
Universal City, Tx 78148-3352

Kin Performance Contractors Llc
Po Box 140884
Austin, Tx 78714

Klp Commercial, L.L.C.
400 W. Main Street, Suite 100
Round Rock, Tx 78664

Keep It Digital, Llc
2206 Sandra Dr.
Cedar Park, Tx 78613

Lillie'S Trucking Inc
1110 Radam Cir
Austin, Tx 78745-3018

Latonya J Pegues
1701 Intervail Dr
Austin, Tx 78746

Lewis Clark Trucking, Llc
14815 Avery Ranch Blvd
Unit 2302
Austin, Tx 78717

Lewis Concrete Restoration
405 Ware Dr
Buda, Tx 78610

Liquid Waste Solutions, Llc
Po Box 1437
Buda, Tx 78610

Louis Paul Podraza
8400 Daleview Drivea
Austin, Tx 78757

M & R General Contracting Llc
13110 W Hwy 290 Suite 305
Austin, Tx 78737

Macaulay Controls Co
Po Box 890231
Houston, Tx 77289-0231

Marie'S Trucking
2314 Wagon Crossing Path
Austin, Tx 78744-4330

Mars Industries L L C
Po Box 560
Cedar Creek, Tx 78612-0560

Melendrez Trucking Llc
11608 Moore Rd
Austin, Tx 78719-9652

Mercury Electric Co Inc
Po Box 587
Liberty Hill, Tx 78642-0587

Mg Limon Corporation
124 Juarez Cv
Del Valle, Tx 78617

Muniz Concrete & Contracting Inc
Po Box 6596
Austin, Tx 78762

Majestic Services Inc
8120 North Ih 35, Suite 101
Austin, Tx 78753

Merrigan Electric Llc
706 Riva Ridge Dr
Leander, Tx 78641

Mid-State Insulation Co.
207-B E. St. Elmo Rd.
Austin, Tx 78745

Nancy Ledbetter & Associates Inc
20020 Farm Pond Ln
Pflugerville, Tx 78665

Naomi J Richard
P. O. Box 90644
Austin, Tx 78709-0644

Nova Landscape Group, Inc.
1290 Grandview Drive
Rockwall, Tx 75087

Oviedo Trucking Llc
3820 Julianas Way
Round Rock, Tx 78665

P D Morrison Enterprises Inc
1120 Toro Grande Blvd. Bldg 2#208
Cedar Park, Tx 78613-6973

Panther Creek Transportation Inc
Po Box 2715
Georgetown, Tx 78627

Peabody General Contractors Inc
Po Box 3
Dripping Springs, Tx 78620-0003

Piatra Inc
Po Box 9593
Austin, Tx 78766-9593

Power Quality Engineering Inc
3061 Woodall Dr Bldg A
Cedar Park, Tx 78613-7225

Prism Development Inc
2709 E 5th St
Austin, Tx 78702-4729

Prolific Enterprises Inc
4146 W. Hwy 79
Rockdale, Tx 76567

Power Of Two Productions, Llc
9901 Brodie Ln 160-279
Austin, Tx 78748

Prota, Inc.
P.O. Box 342195
Austin, Tx 78734

Rama Tirumalachar
13105 Hymeadow Circle
Austin, Tx 78729

Rami Materials Transport Llc
7719 Mcangus Rd
Del Valle, Tx 78617

Rami Transportation Inc
7719 Mcangus Rd
Del Valle, Tx 78617-5911

Rbr Trucking Inc
1126 Welch Way
Cedar Park, Tx 78613

Roadway Specialties Inc
Po Box 90309
Austin, Tx 78709-0309

Robert M Medel Sr
10811 San Jose Ave
Del Valle, Tx 78617-5903

Royal Vista Inc
350 County Rd 260
Liberty Hill, Tx 78642-6202

Ruben P Rocha
8501 S Fm 973 Rd.
Austin, Tx 78719

Ralph Anthony Wright
1716 Meander Dr
Austin, Tx 78721

Robert E Ashford
P O Box 16478
Austin, Tx 78761

Robert M Medel
10811 San Jose Venue
Del Valle, Tx 78617

Rucoba & Maya Construction, Llc
1201 Grove Blvd. #2903
Austin, Tx 78741

S&R Investments Inc
Po Box 5877
Austin, Tx 78763

Sallie Burchett
2003 La Casa Dr
Austin, Tx 78704-4720

Sammie J Kellough
2314 Wagon Crossing Path
Austin, Tx 78744-4330

Santa Clara Construction Ltd
9811 Anderson Mill Road, Ste 201
Austin, Tx 78750

Sar Transportation, L.L.C.
1101 Jarvis Road
Saginaw, Tx 76179-5612

Scorpions Welding & Fabrication, Llc
1109 Coombs Creek Drive
Dallas, Tx 75211

Seto Vargas Utilities Inc
5300 Navarro Creek Rd
Del Valle, Tx 78617

Sivat Services Inc
9230 Research Blvd
Austin, Tx 78758

Ske Construction, Llc
Po Box 1111
Cypress, Tx 77410

Stephanie L Gomez-Andrews
409 S. Senter Ave
Kerens, Tx 75144

Stephanie Braun Clayton Llc
812 W Gibson St
Austin, Tx 78704

Terra Ecoservices Llc
11006 Swelfling Terrace
Austin, Tx 78737

Texas Solar Power Company
6448 Hwy 290e
Ste C111
Austin, Tx 78723

Texas Trucking Co Inc
3900 Shell Rd
Georgetown, Tx 78628-9249

The Arizpe Group Inc
6330 E Hwy 290 Ste 375
Austin, Tx 78723-1156

Tony Parent Enterprises
13350 Old Kimbro Rd, Bldg A
Manor, Tx 78653

Travis Paving & Excavating Inc
1190 Fm 969
Bastrop, Tx 78602

Tri Recycling Inc
Po Box 26499
Austin, Tx 78755-0499

Triad Building Maintenance
Po Box 140631
Austin, Tx 78714-0631

Trini Construction Builder Llc
Po Box 81431
Austin, Tx 78708

Tejas Premier Building Contractor, Inc.
1811 S. Laredo St.
San Antonio, Tx 78207

Terra Nova Consulting, Inc.
2425 Fountain View Drive, Suite 310-B
Houston, Tx 77057

The Orduno Holding Company
4500 Fuller Dr. Ste 205
Irving, Tx 75038

Unism Development Co Inc
Po Box 14145
Austin, Tx 78761-4145

Unity Contractor Services, Inc
6448 Hwy 290 East Ste F-113
Austin, Tx 78723

Under Construction, Inc.
233 W. Anderson Lane, Suite B505
Austin, Tx 78752

Underground Water Solutions Co.
Po Box 1355
Elgin, Tx 78621

Urban Infrastructure Group, Inc.
Po Box 729
Donna, Tx 78537

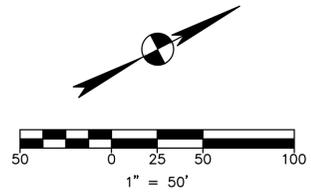
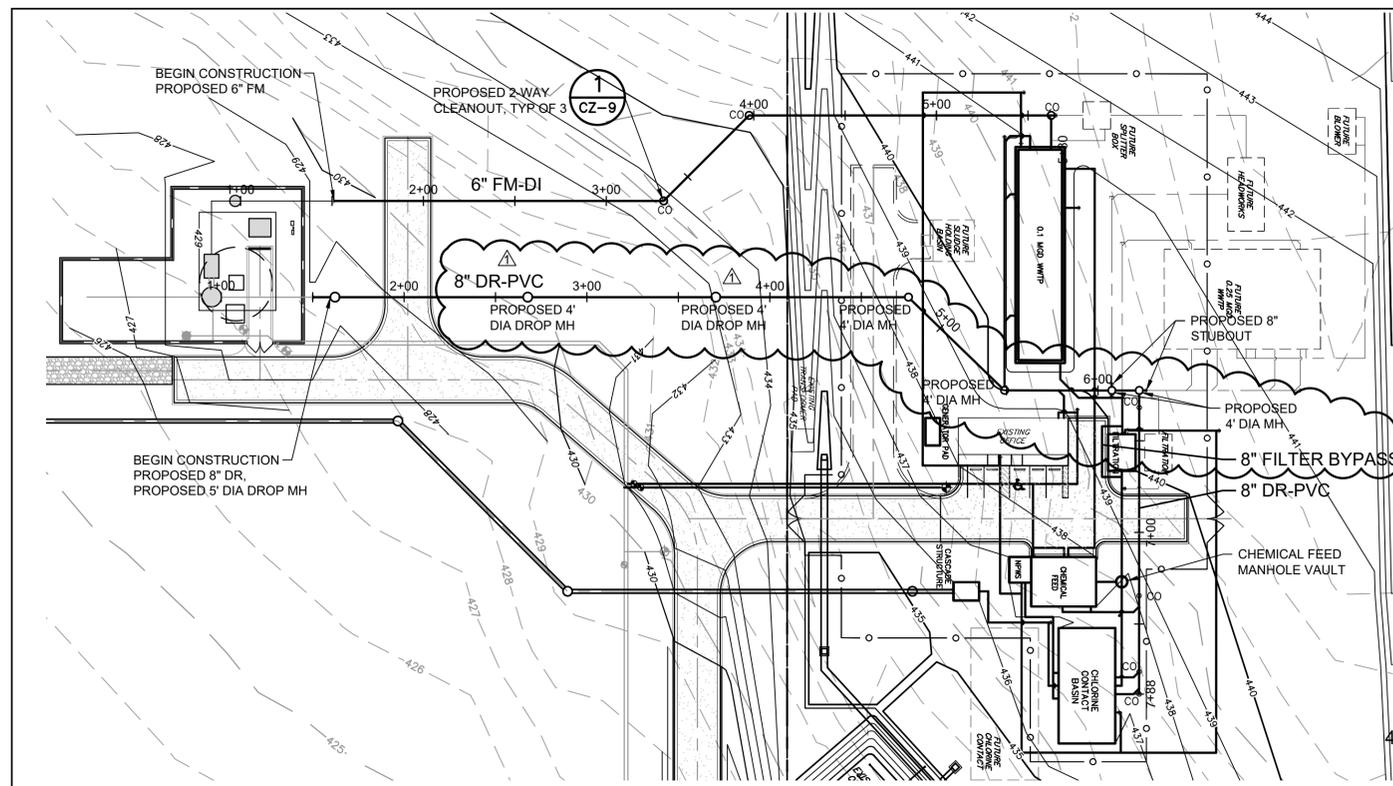
Williams Tunneling Industries Inc
18922 Woodglen Shadows
Humble, Tx 77396

Woolery Custom Fence Co
P.O. Box 986
Elgin, Tx 78621-5585

Waterfilled Barrier Systems
International, Inc.
195 Stockade Ranch Rd., B
Paige, Tx 78659

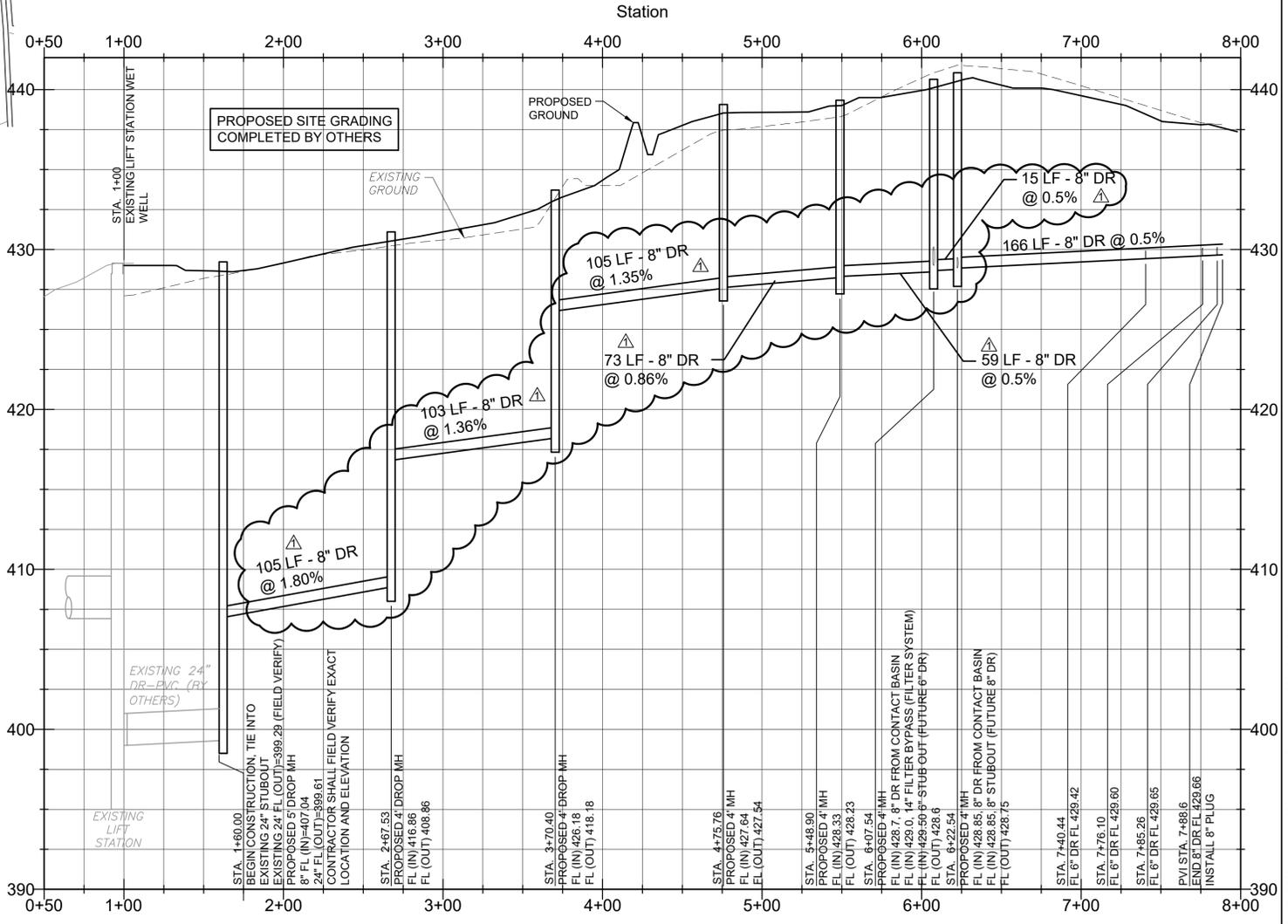
Williams Trinity Electric, Llc
339 Precipice Way
Georgetown, Tx 78626

Xevex Construction Llc
Po Box 681
Buda, Tx 78610

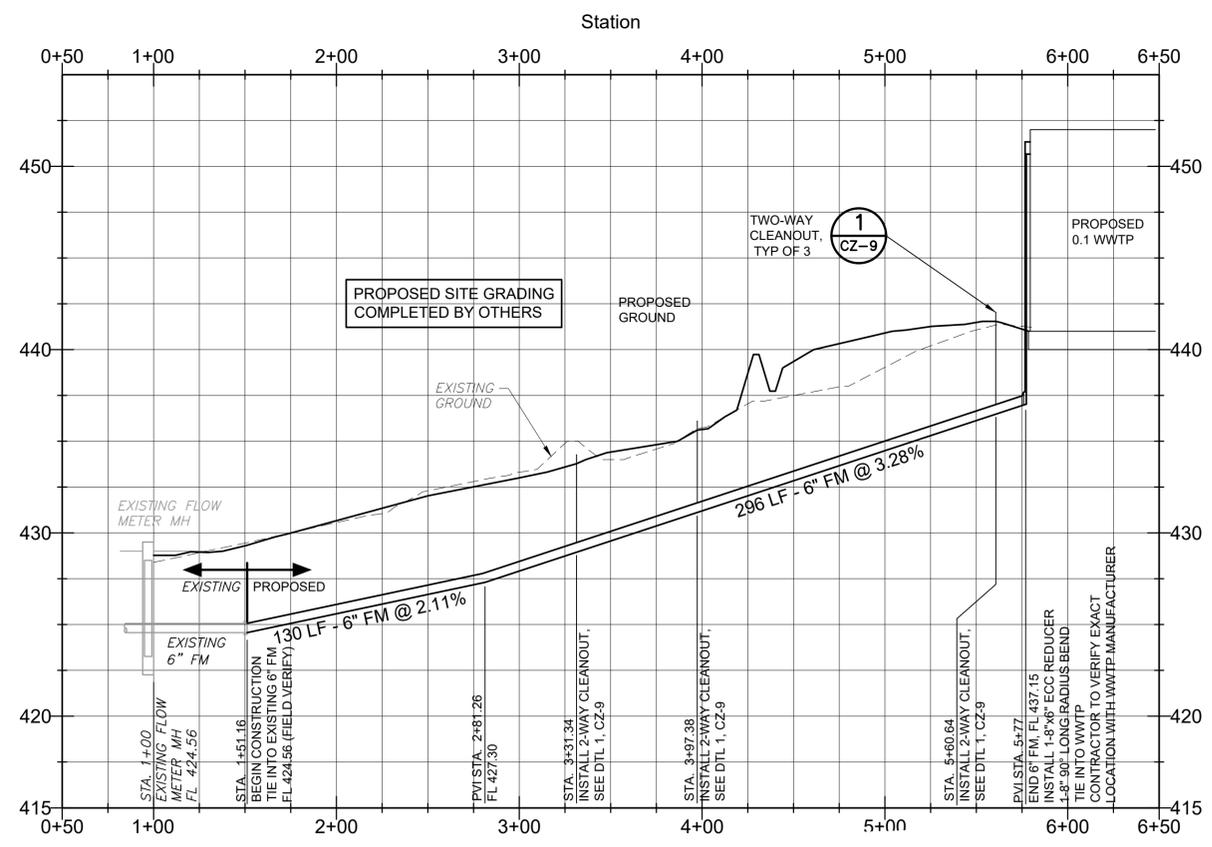


PARTIAL PLAN

8in-DR PROFILE



6in-FM PROFILE



REV	DATE	BY	DESCRIPTION	APPROVED
ADD2	9-20-2016	RJR	YARD PIPING	SST

VERIFY SCALES

IF BAR DOES NOT MEASURE ONE INCH ON THIS SHEET, ADJUST ACCORDINGLY.

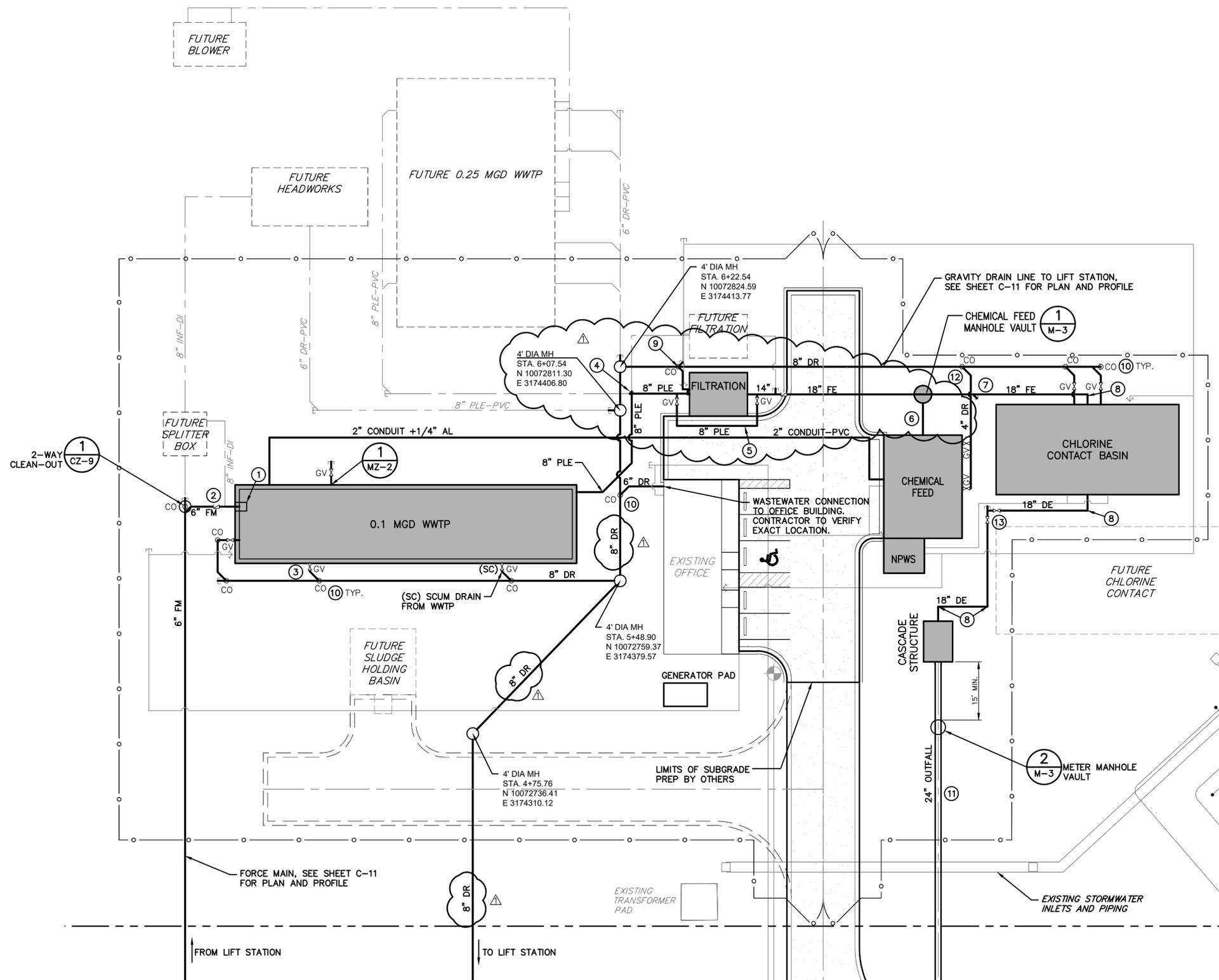
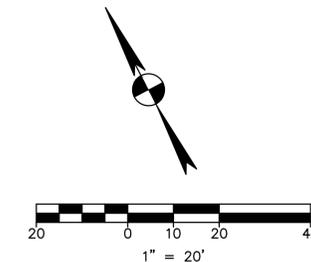
DRAWN BY: RR
 DESIGNED BY: SST
 REVIEWED BY: SST
 PROJECT NO: SST# XXXXX

SMITH TURRIETA
ENGINEERING

P.O. BOX 5902, AUSTIN, TEXAS 78763
 TELEPHONE: (512) 569-9022
 Texas Registration Number, F-16076

CITY OF AUSTIN, TEXAS
 TAYLOR LANE 0.1 MGD WASTEWATER
 TREATMENT PLANT PROJECT
 6" FM-DI AND 12" DR-PVC
 PLAN AND PROFILE

DWG. NO.
C-11
 SHEET 27 OF 79



NOTES:

1. ALL YARD VALVES SHALL HAVE VALVE BOXES WITH CONCRETE PADS PER DETAIL 2 ON SHEET CZ-6.
2. THRUST BLOCKING AT ALL LOCATIONS AS DEFINED IN DETAIL 2 ON SHEET CZ-7.
3. CONTRACTOR SHALL VERIFY EXACT LOCATION AND FITTINGS REQUIRED TO TIE INTO YARD PIPING WITH EQUIPMENT MANUFACTURERS.
4. ALL BENDS SHALL BE LONG RADIUS.
5. SEE SHEET C-13 FOR POTABLE WATER AND NON-POTABLE WATER PIPING.

- ① WWTW TO BE FITTED WITH AN AUTOMATIC SCREEN SYSTEM
- ② 8"x6" ECCENTRIC REDUCER
(2)-8" 90° BENDS
- ③ WWTW SHALL HAVE DRAINAGE LINE FROM EACH CHAMBER.
- ④ 8" CROSS
(2)-8" CAP
- ⑤ 8" PLE (FILTER BYPASS)
(6)-90° BENDS
(1)-14"x8" TEE
(1)-18"x14" ECCENTRIC REDUCER
(2)-8" GV
(1)-14" GV
(1)-8"x8" CROSS
(1)-8" PLUG
- ⑥ 2" CONDUIT 1/2" NaClO
- ⑦ (1)-18"x18" WYE
(1)-18" CAP
- ⑧ (1)-18" 90° BEND
- ⑨ 6" FBW (FILTER BACKWASH)
(1)-45° BEND
(2)-90° BEND
(1)-8"x8" WYE
(1)-6" CLEANOUT
(1)-8" CAP
- ⑩ (1)-6" 45° BEND
(1)-8"x6" WYE
(1)-6" GV
- ⑪ 24" OUTFALL, SEE SHEET C-10 FOR PLAN AND PROFILE
- ⑫ (1)-4" 45° BEND
(1)-8"x4" WYE
- ⑬ (1)-18"x18" TEE
(1)-18" CAP

REV	DATE	BY	DESCRIPTION	APPROVED
ADD2	9-20-2016	RJR	YARD PIPING	SST

VERIFY SCALES

 IF BAR DOES NOT MEASURE ONE INCH ON THIS SHEET, ADJUST ACCORDINGLY.

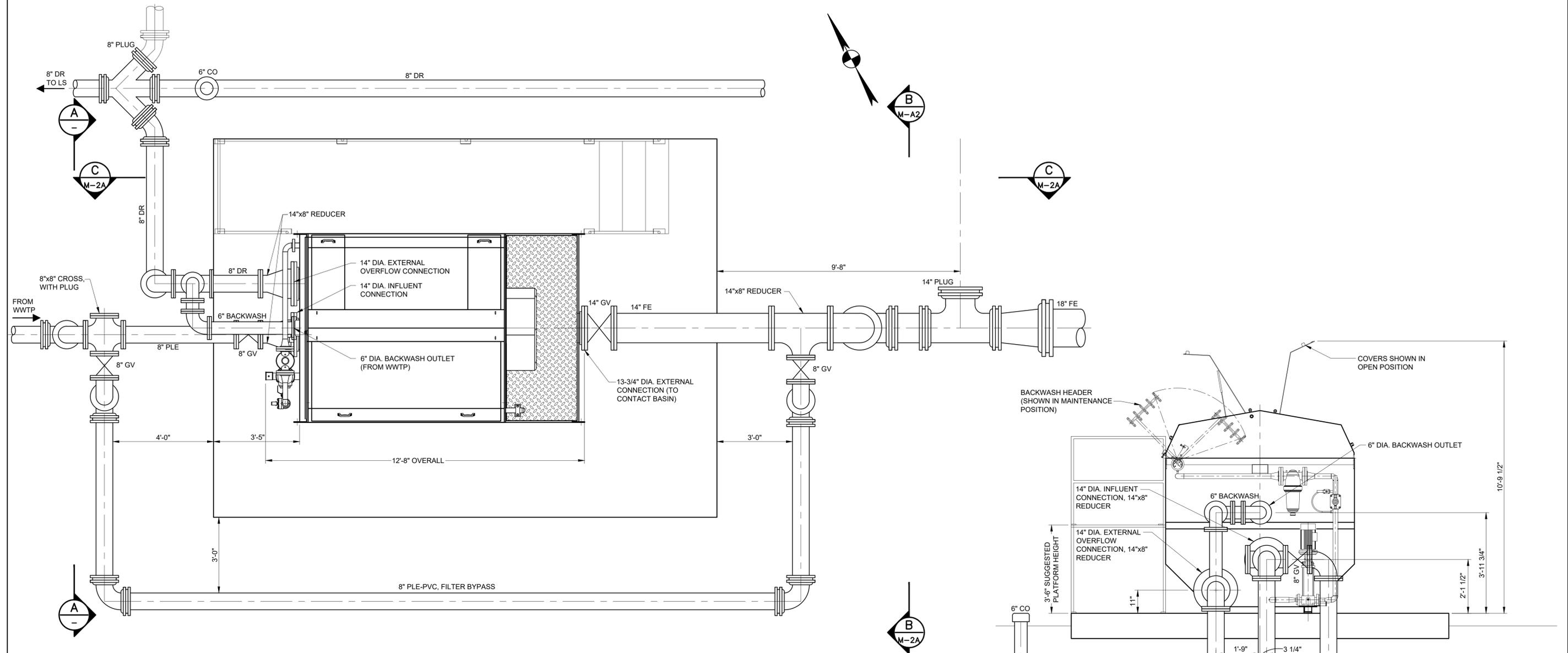


DRAWN BY: RR
 DESIGNED BY: SST
 REVIEWED BY: SST
 PROJECT NO: SST# XXXXX

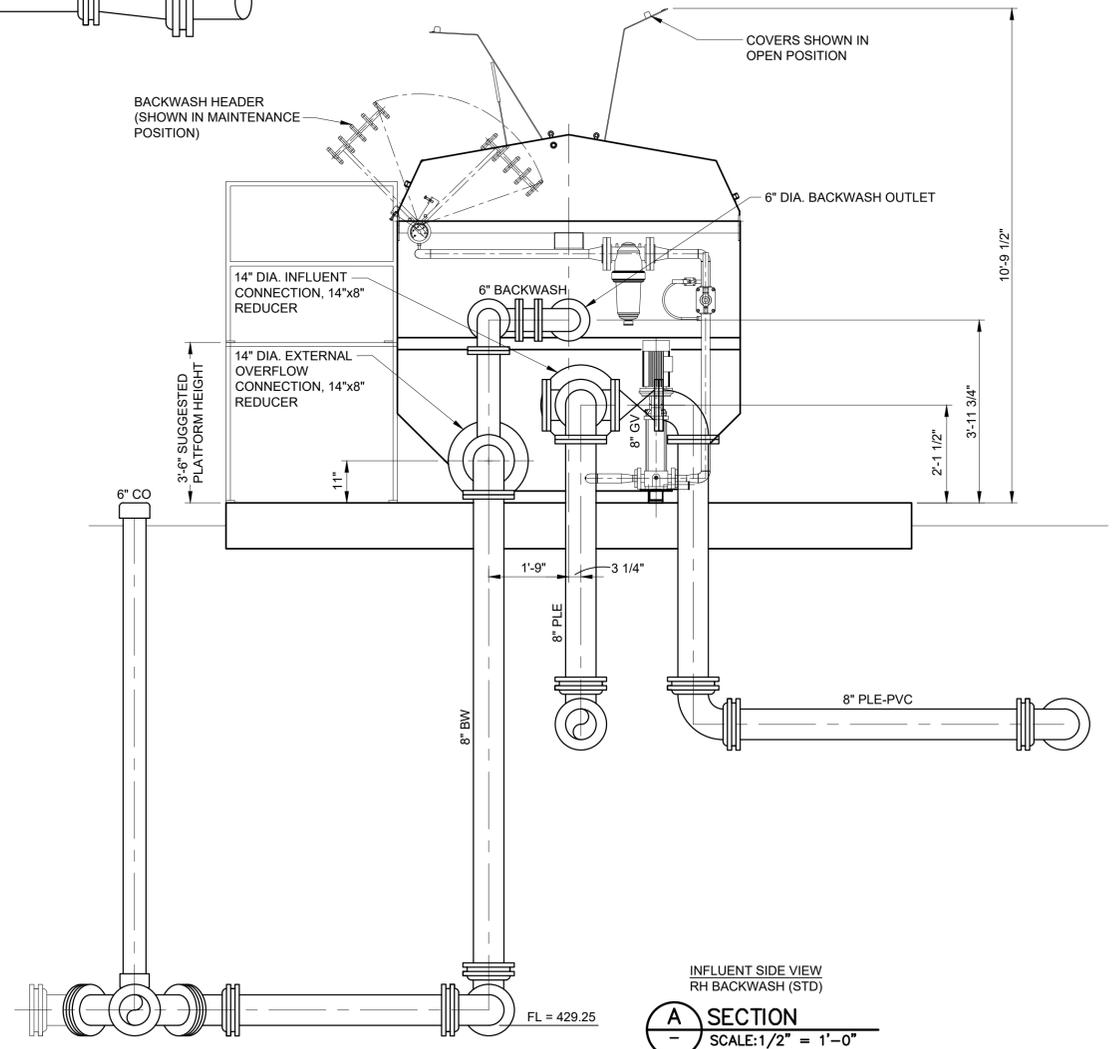
SMITH TURRIETA ENGINEERING
 P.O. BOX 5902, AUSTIN, TEXAS 78763
 TELEPHONE: (512) 569-9022
 Texas Registration Number, F-16076

CITY OF AUSTIN, TEXAS
 TAYLOR LANE 0.1 MGD WASTEWATER TREATMENT PLANT PROJECT
WWTP SITE PLAN - YARD PIPING

DWG. NO.
M-1A
 SHEET 41 OF 79



PLAN
SCALE: 1/2" = 1'-0"

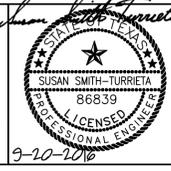


A SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION	APPROVED
ADD2	9-20-2016	RJR	SHEET REISSUED	SST

VERIFY SCALES

 IF BAR DOES NOT MEASURE ONE INCH ON THIS SHEET, ADJUST ACCORDINGLY.

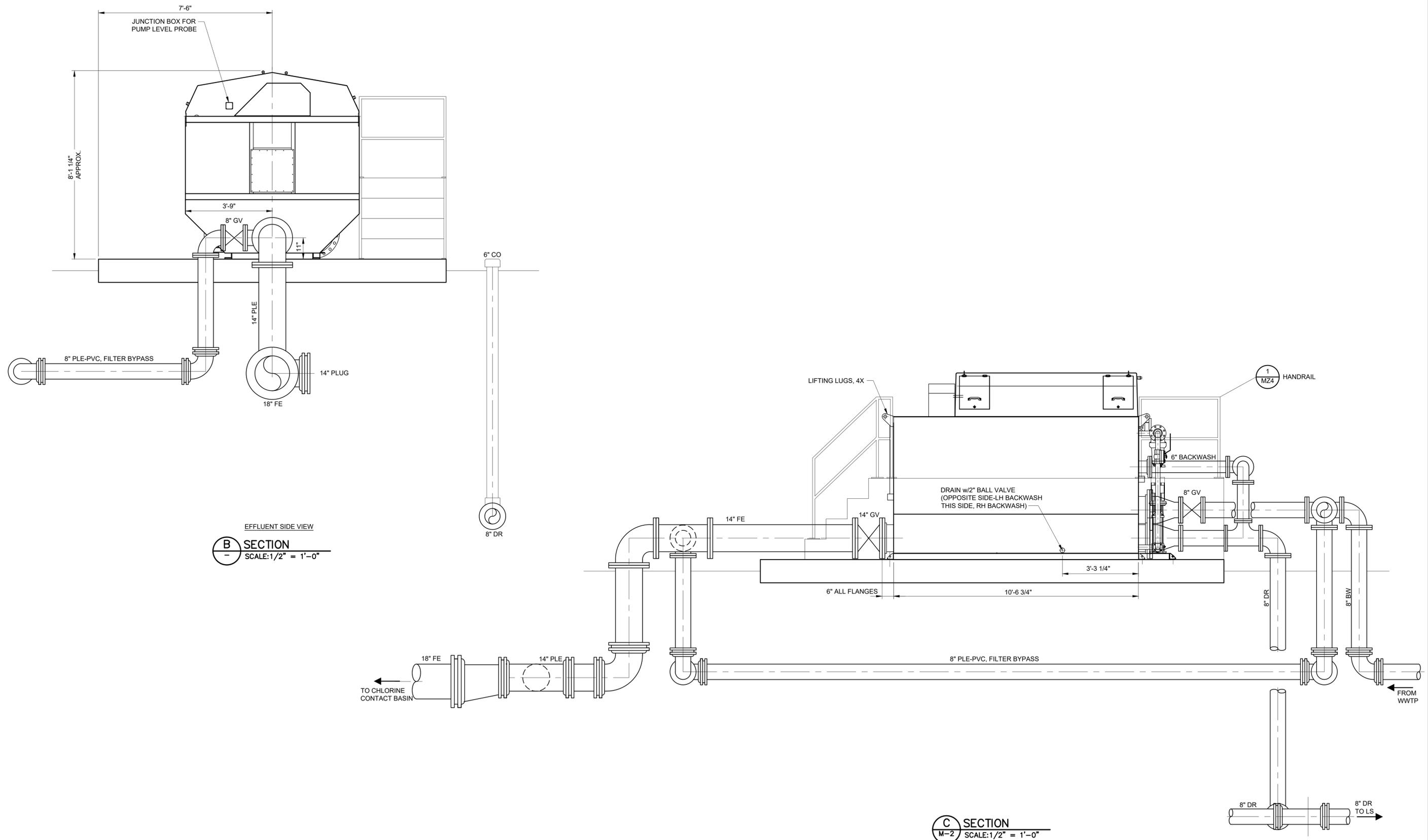


DRAWN BY: RR
 DESIGNED BY: SST
 REVIEWED BY: SST
 PROJECT NO: SST# XXXXX

SMITH TURRIETA ENGINEERING
 P.O. BOX 5902, AUSTIN, TEXAS 78763
 TELEPHONE: (512) 569-9022
 Texas Registration Number, F-16076

CITY OF AUSTIN, TEXAS
 TAYLOR LANE 0.1 MGD WASTEWATER TREATMENT PLANT PROJECT
FILTRATION SYSTEM
PLAN AND SECTION

DWG. NO.
M-2
 SHEET **43** OF **79**



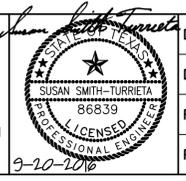
B SECTION
 SCALE: 1/2" = 1'-0"

C SECTION
 SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION	APPROVED
ADD2	9-20-2016	RJR	SHEET REISSUED	SST

VERIFY SCALES

 IF BAR DOES NOT MEASURE ONE INCH ON THIS SHEET, ADJUST ACCORDINGLY.



DRAWN BY: RR
 DESIGNED BY: SST
 REVIEWED BY: SST
 PROJECT NO: SST# XXXXX

SMITH TURRIETA ENGINEERING
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 TELEPHONE: (512) 569-9022
 Texas Registration Number, F-16076

CITY OF AUSTIN, TEXAS
 TAYLOR LANE 0.1 MGD WASTEWATER TREATMENT PLANT PROJECT
FILTRATION SYSTEM SECTIONS

DWG. NO.
M-2A
 SHEET **44** OF **79**