

DENTON HIGH SCHOOL #4 DENTON ISD LITTLE ELM, TX		Balfour Beatty Construction	
020060 - UTILITIES		Force Main	Lift Station
		PCR	OCO
A. SUBCONTRACTOR BASE BID			
C. SPECIFIC SCOPE OF WORK			
Lift Station Turn-Key			
Provide for all trenching, excavation, grading, backfilling and compaction in full accordance with the Contract Documents.			included
Provide material, equipment and labor for a complete Lift Station System including, but not limited to, lift station, generator, SCADA Antenna, wet well, valve vault, controls, electrical requirements, light pole, all conduit, metering station, raven coating as specified, etc..			included
When indicated or required, provide all sheeting, shoring and bracing in all trenches and excavations in strict accordance with approved Trench Safety Plans or other project specific engineering and design.			included
Furnish and/or import of all backfill materials, including bedding materials as specified.			included
6" Force main stubbed out 5' outside of mowstrip			included
Include all rock excavation as required per the Geotechnical Report.			included
Provide all dewatering as required for this scope of work.			included
Remove and haul-off all spoils generated from this scope off-site.			included
Maintain erosion control installed by others while performing work on site around all inlets.			included
Demo of existing metering station and 12" existing SS Line B for Lift Station construction. Metering station shall be salvaged and returned to a Balfour Beatty representative.			included
All grounding as required.			included
Provide (2) 12" test balls in existing manholes for pumping (install and removal only)			included
1-1/2" diameter washed landscape gravel 6" thick on water permeable weed proof fabric on 2" compacted bed of sand throughout yard in all pervious areas.			included
Provide excavation and off-site haul-off of all material removed from areas requiring 6" of 1-1/2" gravel and 2" of sand to achieve subgrade			included
Sleeves under paving for this scope of work.			included
All testing and training per Mustang Water District requirement, contract documents and specifications			included
Complete a site visit to review all existing conditions on-site and off-site, prior to bid submission			included
Provide line locate with Texas One-Call System for all existing utility locates			included
Provide all monument markers and other forms of sanitary line identification indicated or specified.			included
Provide and install water line, including tapping of existing 4" waterline and hose bib per contract documents.			included
Joints in paving shall be as per joint details on C-07			included
For clarification the new lift station drive shall tie into the existing paving as per the details as shown on sheet C-07			included
For clarification the concrete mix designs shall be as per contract document specification 033000 & 321313. Structural concrete and paving shall be 4000 psi. Mow strip shall be 3000 psi.			included
The "edge of pavement" detail backfill note on C-07 does not apply inside the mowstrip/lift station. At edge of paving the 24" condition for flex base shall override the overlap of gravel and sand requirement inside the mowstrip/lift station.			included
For clarification the routing of the sewer force main shall be as shown on the lift station only. The force main routing is not accurate.			included
Specifications shall be as noted. Discrepancies between specifications, Mustang water district or civil notes must be brought to BBC's attention prior to bid.			included
Digital submittals are acceptable for submission.			included
One year standard warranty and parts and labor shall cover all work. Specifications that require different warranty periods are to be included.			included
Mow strip shall be 4" on the low side & 6" in the high side. The width shall not change.			included
Professional Engineer Shop Drawings are required as part of this scope of work. Reference specifications.			included
Demo of existing metering station and 12" existing SS Line B for Lift Station construction is required by this scope of work. Remove existing structure to 1' below grade and backfill the remaining structure with native material (compacted to 12 inch lifts with 95% compaction or flowable fill, and route water line as necessary to provide service. Submit a revised alignment for review prior to commencing work.			included
Lift Station Turn-Key Bid Amount			
Bid Amount:		\$	438,870
2 year maintenance bond			See Below
Allowance: Provide hourly unit price and hourly minimum to pump existing 12" manhole		\$	300
Force Main Turn-Key			
Provide for all trenching, excavation, grading, backfilling and compaction in full accordance with the Contract Documents.	included		
Provide material, equipment and labor for a complete force main system per contract documents and as specified.	included		
Provide excavation and off-site haul-off of all material spoils from this scope of work.	included		
Complete a site visit to review all existing conditions on-site and off-site, prior to bid submission	included		
At off-site scope provide all required repair/replacement of existing conditions, including, but not limited to, grass repair with new sod, irrigation repair, tree replacement, sidewalk replacement, all areas must be replaced to existing conditions, if not better	included		
Provide all necessary BMP's to protect existing inlets, drains, etc.	Offsite only		
All testing and training per Mustang Water District requirements, contract documents and specifications	included		
Provide site specific trench and excavation safety plan for all areas	included		
Provide barricade system as required by City or TXDOT at all off-site scope	included		
Provide concrete removal and haul-off at drive A for force main install. Concrete demo to span joint to joint. (Total of 6 panels removed). Concrete place back will be an allowance.	included		
Provide line locate with Texas One-Call System for all existing utility locates	included		
Provide all boring as specified.	included		
Provide all monument markers and other forms of sanitary line identification indicated or specified.	included		
Provide, maintain and remove all erosion control measures needed to complete this scope per contract drawings and AHJ requirements	included		
All fencing and safety measures required for barricading off-site construction	included		
Provide bypass/temporary connection to 8" sewer for gas station during tie-in of new force main for Raven application	included		
Digital submittals are acceptable for submission.	included		
Force Main Turn-Key Bid Amount			

Bid Amount:		\$	233,559
Allowance: Provide price to bore the off-site force main from east of Navo up to tie-in, including sleeving at road as required		\$	80,000
Allowance: Provide price for approximately 1,000 sqft of 6" paving and curb to be replaced after force main install at Drive A, including 8" flexbase prep.		\$	26,000
Allowance: Provide price for approximately 1,000 sqft of 6" paving and curb to be replaced after force main install at Drive E, including 8" flexbase prep.		\$	26,000
Allowance: Provide price to remove and haul-off approximately 1000 sqft of paving and curb at Drive E per construction managers direction		\$	3,000
Allowance: If required provide breakout for 3-way contract bonds			TBD
Lift Station Concrete Turn-Key			
Provide all labor, material and equipment to form, reinforce, place and finish all concrete work associated with this scope of work.			included
Provide excavation and off-site haul-off of all material removed from paving and mowstrip areas to achieve subgrade elevation.			included
Provide sawcutting and removal of existing paving and curb for new paving			included
Provide 6" concrete paving on 8" Flexbase per contract documents.			included
Provide and Install bollards per contract documents			included
Provide all mowstrip per contract documents, coordinate with fence subcontractor.			included
Provide and install all concrete pads per contract documents.			included
Provide and install light pole base per contract documents			included
Provide and install caulking of all joints			included
Digital submittals are acceptable for submission.			included
For clarification the concrete mix designs shall be as per contract document specification 033000 & 321313. Structural concrete and paving shall be 4000 psi. Mow strip shall be 3000 psi.			included
Lift Station Concrete Turn-Key Bid Amount			
Bid Amount:		\$	43,828
Lift Station Fence			
Provide and install fencing per drawings, including 8' Chain Link Fence with single strand of barbed wire, 14' double gate.			included
Coordinate post installation with concrete subcontractor. Coordinate fence installation with existing project fence subcontractor.			included
Digital submittals are acceptable for submission.			included
One year standard warranty and parts and labor shall cover all work. Specifications that require different warranty periods are to be included.			included
Lift Station Fence Bid Amount			
Bid Amount:		\$	17,104
Existing Fence Credit			
Provide credit for material and labor for existing fence per sheet C1.10, coordinate tie-in of fencing with lift station fence subcontractor			N/A
Existing Fence Credit Bid Amount			
Bid Amount:			
Related Requirements All Scopes			
BBC will utilize BIM 360 Field during all field operations. All foreman are required to utilize a compatible electronic tablet to run the Good Reader program in order to coordinate in real time with updated electronic drawings and associated punchlist/project issues.		included	included
At all times, have on site, qualified supervision while work under this Subcontract is ongoing.		included	included
Provide all required submittals, samples, warranties and guarantees.		included	included
Coordination with the other trades and authorities to ensure proper execution of the work and to ensure work is not delayed.		included	included
Provide all mobilizations as required.		included	included
Provide all trade permits, plan checks, licenses, inspections and associated fees (as necessary) to complete the work.		included	included
Subcontractor will acknowledge the stie logistics plan and schedule referenced in plan room		included	included
Provide all traffic control; including flag men and barricades as required for the execution of the work.		included	included
Receive, unload, store, and distribute all materials required by this Scope of Work. Coordinate delivery, storage and handling of all materials with Balfour Beatty Construction's Superintendent or designated representative.		included	included
Provide all layout and field engineering, including horizontal and vertical control which is required to complete this Scope of Work.		included	included
Removal of trash to a centrally located dumpster provided by Balfour Beatty Construction. However, Subcontractor shall not deposit in the dumpster any hazardous, combustible, or other material deemed a threat to the environment or to health, but shall remove them from the jobsite at his own expense.		included	included
Specification Section - Description			
Division 00 - Procurement and Contracting Requirements, complete			
Division 01 - General Requirements, complete			
Division 33 - Utilities			
TNP Mustang Lift Station Drawings			
("C-01-TCEQ GENERAL CONSTRUCTION NOTES," "C-02-LIFT STATION SITE PLAN," "C-03-LIFT STATION PAVING, GRADING & DRAINAGE," "C-04-LIFT STATION WATER PLAN," "C-05-PLAN VIEWS," "C-06-SECTION VIEWS," "C-07-LIFT STATION DETAILS A," "C-08-LIFT STATION DETAILS B," "C-09-PUMP CURVE & DETAILS," "S-01-STRUCTURAL NOTES AND DETAILS," "E-01-SITE ELECTRICAL AND GROUNDING PLAN," "E-02-LIFT STATION-ELECTRICAL ON-LINE DIAGRAMS," "E-03-LIFT STATION-PUMP CONTROL DIAGRAMS," "E-04-LIFT STATION-SCADA DATA-ELECTRICAL," "E-05-LIFT STATION-ELECTRICAL DETAILS," "E-06-LIFT STATION-ELECTRICAL DETAILS") DATED FEBRUARY 29, 2016			
TNP SS Force Main Drawings			
("1-MUSTAING S.U.D. GENERAL NOTES," "2-SANITARY SEWER LAYOUT," "3-SS FORCE MAIN PLAN-PROFILE (STA 0+00 TO STA 9+50)," "4-SS FORCE MAIN PLAN-PROFILE (STA 9+50 TO STA 19+00)," "5-SS FORCE MAIN PLAN-PROFILE (STA 19+00 TO STA 29+00)," "6-SS FORCE MAIN PLAN-PROFILE (STA 29+00 TO END)," "7-MUSTANG S.U.D. WASTEWATER STANDARD DETAILS," "8-MUSTANG S.U.D. WASTEWATER STANDARD DETAILS II," "9-MUSTAIN S.U.D. WATER STANDARD DETAILS," "10-MUSTANG S.U.D. WATER STANDARD DETAILS II") DATED JANUARY 29, 2016			
TNP Special Specifications dated January 27, 2016			

Section 01340 - Shop Drawings, Product Data and Samples; Section 01655 - Starting of the System; Section 01730 - Operation and Maintenance Data; Section 02643 - Combination Wastewater Air Valves; Section 02644 - Expansion Joints and Couplings; Section 02653 - Transit-Time Ultrasonic Flow Meter; Section 02670 - Check Valves; Section 02680 - Plug Valves; Section 09905 - Piping And Equipment Housing Painting; Section 11100 - Submersible Solids Handling Wastewater Pumps; Section 11300 - Access Hatches; T Tabor Consulting Specifications dated March 1, 2016 (Lift Station Electrical)			
Section 16000 - Electrical - General Provisions; Section 16110 - Raceways, Boxes, Fittings and Supports; Section 16120 - Wires and Cables (600 Volt Maximum); Section 16130 - Conduit Boxes; Section 16470 - Panel Boards; Section 16475 - Low Voltage Enclosed Circuit Breakers and Disconnect Switches; Section 16476 - Automatic Transfer Switches; Section 16488 - Mechanical Manufacturer's Provided Control Panels (OEM's); Section 16660 - Grounding System			
Existing Denton HS #4 Contract Documents (https://bbcus.egnyte.com/fl/pZa5uYkaBV) Engineering Design Report pages 1-20 dated March 3, 2016 Light Pole Specification pages 1-2 "Lithonia"			
Workers comp modifier	\$	1	
Payment and performance bond	\$	12,499	
3-way Bond			
Total Man hours included in Proposal			
	Total Base Bid	\$ 233,559	\$ 499,802
	Total Allowances	\$ 147,499	\$ -
	Subtotals	\$ 381,058	\$ 499,802
Balfour Beatty Costs			
CoServ Design and Infrastructure (Budget, no design received)		\$	60,000
Bond		\$	3,749
Owner Contingency		\$	9,996
General Liability & Insurance		\$	3,749
Builders Risk		\$	375
Temporary Sanitary Pumping Allowance (\$300/HR + 4 HR MIN @ 90 Days) (Budget)		\$	50,000
	Force Main Value	\$ 381,058	
	Lift Station Value		\$ 627,670
	BBC Overhead and Profit (4%)		\$ 25,107
	COMPLETE LIFT STATION AND FORCE MAIN VALUE		\$1,033,835
	LESS PCR 167 FORCE MAIN		-\$381,058
	TOTAL OWNER CHANGE VALUE FOR LIFT STATION		\$652,777