



# CITY OF INGLEWOOD



## SPECIFICATIONS FOR

### "INGLEWOOD NEW WELL NO. 7 PROJECT - DRILLING AND EQUIPPING"

BID NO. CB-17-08

Public Works Department  
One West Manchester Boulevard  
Inglewood, California 90301  
(310) 412-5333

Bid Proposal Due on Wednesday, May 17, 2017 no later than  
11:30 AM at City Clerk Office.

MARCH 2017

# CITY OF INGLEWOOD LOCATION MAP



**BIDDER'S PROPOSAL AND STATEMENT**  
**CITY OF INGLEWOOD, LOS ANGELES COUNTY, CALIFORNIA**  
**"INGLEWOOD NEW WELL NO. 7 PROJECT - DRILLING AND EQUIPPING"**

**PROPOSAL**

To the City of Inglewood  
 One Manchester Boulevard  
 Inglewood, CA 90301

The undersigned declares that he/she has carefully examined the location of the proposed work and has otherwise satisfied himself/herself as to the nature and location of the work, and is fully informed as to all conditions and matters which can in any way affect the work or cost thereof, that he/she has examined the Specifications and Plans, and has read the accompanying "**INSTRUCTIONS TO BIDDERS**" and hereby agrees to provide the following:

To furnish all labor, materials, equipment, transportation, and services and to do all the work required for the "**INGLEWOOD NEW WELL NO. 7 PROJECT - DRILLING AND EQUIPPING**" and in strict conformity with the plans and specifications and at the following lump sum prices, to Wit (please see "Measurement and Payment" Section for details):

Item No.	Bid Item Description	Quantity	Unit	Unit Price	Amount
<b>DRILLING OF NEW WELL NO. 7</b>					
201	Mobilization and Demobilization (including drilling/well permits).	1	Lump Sum		
202	Install, maintain & remove 24-foot tall noise control/acoustical sound panel wall around site perimeter.	360	Linear Feet		
203	Provide for treatment including the use of two above-ground settling tanks, sampling, analysis and compliance with NPDES permit for discharge of well development and testing fluids, in accordance with Appendix Exhibit C.	1	Lump Sum		
204	Drill 48-inch diameter hole; Furnish & Install 42-inch outside diameter (OD) x 3/8-inch thick Low Carbon Steel (LCS) conductor casing and grout into place to 50-feet below ground surface (bgs).	50	Linear Feet		
205	Drill pilot borehole from 50-feet to 700-feet bgs with 17½-inch nominal diameter drill bit, collect formation samples, monitor fluid properties, conduct Eastman type drift surveys and perform related	650	Linear Feet		

	works.				
206	Provide downhole geophysical surveying consisting of a spontaneous potential, short (16-inch) and long (64-inch) normal resistivity, focused (guard) resistivity, sonic variable density (sonic), gamma-ray and magnetic deviation surveys.	1	Lump Sum		
207A	Perform isolated aquifer zone tests in the pilot borehole per zone.	4	Each		
207B	Retain laboratory, collect samples, deliver samples to laboratory, and pay for specified analyses per zone.	4	Each		
208A	Ream pilot borehole to 38 inches in diameter from 50-feet to 350 feet bgs.	300	Linear Feet		
208B	Ream pilot borehole to 30 inches from 350-feet to 700 feet bgs.	350	Linear Feet		
209A	Provide caliper survey after completion of pilot borehole reams.	1	Lump Sum		
209B	Provide second magnetic deviation survey with a magnetometer tool following completion of the pilot borehole reams.	1	Lump Sum		
210A	Furnish and install 20-inch Inner Diameter (ID) by 3/8-inch-thick wall High Strength, Low Alloy Steel ASTM A606 blank well casing from 2-feet above ground surface (ags) to 350-feet below ground surface (bgs).	352	Linear Feet		
210B	Furnish and install 20-inch ID by 5/16-inch-thick wall High Strength, Low Alloy Steel ASTM A606 blank well casing, interspersed with 20-inch ID Louvers, from 350-feet bgs to 680-feet bgs including a cellar pipe/end cap between 660 feet bgs to 680 ft bgs.	80	Linear Feet		
210C	Furnish and install 20-inch ID by 5/16-inch-thick wall High Strength, Low Alloy Steel ASTM A606, 0.070-inch (70-slot) Ful-flo Louvers (interspersed with blank casing per Item 210B) from 350 feet bgs to 660 feet bgs.	250	Linear Feet		
210D	Furnish and install 3-inch ID Schedule 40 LCS, ASTM A53 gravel feed tube from 2-feet above ground surface to 320-feet bgs.	322	Linear Feet		

210E	Furnish and install 4-inch ID Schedule 80 LCS ASTM A53 camera tube from 2-feet above ground surface to 340-foot bgs, equipped with a 10-foot long port opening from 333-feet to 340-foot bgs.	342	Linear Feet		
210F	Furnish and install 2-inch ID Schedule 80 LCS ASTM A53 sounding tube, from 2-feet above ground surface to 325 feet bgs, equipped with a 1-foot long port opening into the well casing from 324-feet to 325-feet bgs.	327	Linear Feet		
210G	Furnish and install a 3-inch ID Schedule 80 LCS ASTM A53 air vent tube from 2-feet above ground surface to 2-feet bgs.	4	Linear Feet		
211	Install 20-foot bentonite pilot hole bottom seal (OPTIONAL).	20	Linear Feet		
212	Furnish and install Tacna Sand and Gravel, or Approved Equal, 6 x 12 gradation gravel pack, including 5-feet of plaster sand on top, from 300-feet to 700-feet bgs.	400	Linear Feet		
213	Install annular cement/grout seal, in lifts, from 5-feet bgs to 300-feet bgs.	295	Linear Feet		
214	Conduct alignment survey to the bottom of the well.	1	Lump Sum		
215	Standby time per hour.	24	Hour		
216	Mechanically develop well by swabbing and airlift pumping (only actual swabbing or surging time shall be attributed to development time) per hour.	100	Hour		
217A	Chemicals for well development: furnish 120 gallons of 12.5% Chlorine solution.	120	Gallon		
217B	Chemicals for well development: furnish 12 gallons of NW-220 or Approved Equal.	12	Gallon		
218	Provide color video surveys with DVD recordings on the completed well: two following mechanical development and a third one following removal of the test pump.	3	Each		
219	Mobilization and demobilization of a temporary test pump and accessories to a depth of 300-feet bgs.	1	Lump Sum		

220A	Conduct pumping development, record and monitor changes in water levels, sand content, and flow rates.	60	Hour		
220B	Perform step drawdown test (12-hour maximum) including measurements of water levels, pumping rates and sand production.	12	Hour		
220C	Perform constant rate pumping test (48-hour maximum) including measurements of water levels, pumping rates and sand production.	48	Hour		
221	Conduct down-well dynamic spinner survey.	1	Lump Sum		
222	Conduct depth specific sampling in four (4) sample depths per depth zone including analytical testing (selected California Title 22 analyses) from a State-certified laboratory for specified analyses.	4	Each		
223	Conduct down-well static flowmeter (spinner) survey.	1	Lump Sum		
224	Disinfect the well and Capping.	1	Lump Sum		
225	Abandonment/destruction of pilot hole in accordance with State or local County ordinances.	1	Lump Sum		
<b>EQUIPPING FOR NEW WELL NO. 7</b>					
301	Provide & establish new, permanent 480-volt electric service onsite including power transformer, components from SCE and anchor bolts installation per Drawing Sheet C-502.	1	Lump Sum		
302	Furnish and construct 5-inch R.C. Concrete Pad/Foundation with #3 rebars (including formworks & ties) on 6-inch Crush Aggregate Base compacted to 90% Compaction for power transformer and electrical cabinets per Drawing Sheet C-502 & C-201.	180	Square Feet		
303	Furnish & Construct Well Pump Pedestal Assemblies, including but not limited to sounding tube, gravel tube, camera tube, air vent, and concrete well pedestal.	1	Lump Sum		
304	Furnish and Install new 175-HP submersible pump/motor assemblies with stainless steel impeller (required flow=1,500 gpm & minimum TDH=420-feet).	1	Lump Sum		

305	Furnish and Install 10-inch Stainless Steel Column Pipe Assemblies (including SS416 shaft).	360	Linear Feet		
306	Furnish and Install C.I. Well Discharge Head Assemblies.	1	Lump Sum		
307	Furnish and Install Electrical assemblies including but not limited to electrical panels, conduit, wire, instrumentation & control components (PLC/RTU, Antenna, Communication equipments to WTP, etc.) per Inglewood New Well No. 7 electrical/instrumentation drawings, motor control center, variable frequency drive, enclosure, air conditioning, anchor bolts installation to RC Concrete foundation pad, software(s) and miscellaneous.	1	Lump Sum		
308	Miscellaneous, incidentals & all other Works such as check motor rotation, pump adjustment, perform start-up, test, disinfection, providing training to providers, and Final Report, as indicated in on the contract documents but not included in the above bid items.	1	Lump Sum		
<b>TOTAL BID WRITTEN IN WORDS</b>			<b>TOTAL BID IN FIGURES</b>		
_____			\$ _____		
_____					
_____					

**IN CASE OF DISCREPANCY BETWEEN THE WORDS AND FIGURES, THE WORDS SHALL PREVAIL.**

**RECEIPT OF ADDENDUM NO. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, IS HEREBY ACKNOWLEDGED.**

This bid is based upon completing the work within two hundred **(200)** working days\* from the date of the Notice to Proceed. Before signing the contract, the lowest responsible bidder shall furnish all necessary bonds within ten (10) days after receiving the Contract notification.

Lowest monetary bidder will be determined by the total lump sum bid amount indicated above. The City, however, reserves the right to add or subtract quantities or work based on the unit prices/unit lump sums so indicated as its budgetary needs may require. Notwithstanding Section 3, paragraph 3-2.1 of the Standard Specification for Public Works Construction, the City may change the Plans, Specifications, character of the work, or quantity of work provided even when the total arithmetic dollar value of such changes, both additive and deductive, are in excess of twenty-five percent (25%) of the Total Contract price. No adjustment for the Unit Prices/Unit Lump Sum will be made for the adjusted quantities or work.