



JEA, FL
Well No.15
Opinion of Probable Construction Cost, April, 2017, IFB Design-Part 1

Project name	Well No. 15 Jacksonville FL
Client	CDM Smith
Estimator	RWR
Labor rate table	FL17 Jacksonville
Equipment rate table	00 17 Equip Rate BF
Job size	750 VLF
Project	Well 15
OPCC Type	OPCC
Design Level	Issued for Bid
Reviewed by	CAG
ENR 20 City CCI	April, 25: 10,678.15
Notes	<p>This is an Opinion of Probable Construction Cost (OPCC) only, as defined by the documents provided at the level of design indicated above. CDM Smith has no control over the cost of labor, materials, equipment, or services furnished, over schedules, over contractor's methods of determining prices, competitive bidding (at least 3 each - both prime bidders and major subcontractors), market conditions or negotiating terms. CDM Smith does not guarantee that this opinion will not vary from actual cost, or contractor's bids.</p> <p>There are not any costs provided for: Change Orders, Design Engineering, Construction Oversight, Client Costs, Finance or Funding Costs, Legal Fees, Impact Fees, Land Acquisition or temporary/permanent Easements, Operations, or any other costs associated with this project that are not specifically part of the bidding contractor's proposed scope.</p> <p>Assumptions: No rock excavation is required. Only nominal dewatering is needed. No consideration for contaminated groundwater/soils or hazardous materials is included (i.e. asbestos, lead, etc). Temporary parking/storage/staging is available within the limits of construction. Based on a normal 40 hour work week with no overtime.</p>
Report format	Sorted by 'Area/95CSI Sctr/Element' 'Detail' summary Allocate addons

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
1a Well Construction Permit								
01210 Project Permits								
01210.4605 Well Construction Permit	1.00 ls					0	0.01 /ls	0
01210 Project Permits						0		0
1a Well Construction Permit	1.00 LS					0	0.01 /LS	0
2a Site Restoration								
02300 Earthwork								
05.02300.4605 Site Grading	1.00 ls	1,575	624		896		3,095.17 /ls	3,095
02300 Earthwork		1,575	624		896			3,095
2a Site Restoration	1.00 LS	1,575	624		896		3,095.17 /LS	3,095
2b Temporary Site Security Fence								
02520 Wells								
02520.3105 Temporary Site Security Fence				6,250			/lf	6,250
02520 Wells				6,250				6,250
2b Temporary Site Security Fence	1.00 LS			6,250			6,250.00 /LS	6,250
2c Fluid Management								
02520 Wells								
02520.3150 Fluid Management		1,851	1,800		2,020		/ls	5,672
02520 Wells		1,851	1,800		2,020			5,672
2c Fluid Management	500.00 LF	1,851	1,800		2,020		11.34 /LF	5,672
3a Mobilization/Demobilization Maximum 10% Of Total Well Cost								
02520 Wells								
02520.4605 Mobilize/Demobilize Drilling Crew	1.00 ea			29,717			29,717.10 /ea	29,717
02520 Wells				29,717				29,717
3a Mobilization/Demobilization Maximum 10% Of Total Well Cost	1.00 LS			29,717			29,717.10 /LS	29,717
3b Drill and Grout In Place 36" 0.375" Casing Pipe 0' to 35'(±)								
02520 Wells								
01200.4605 Survey & Stake Well Location	1.00 ea	864				500	1,363.90 /ea	1,364
02520.4606 Install 36" Diameter Surface Casing	35.00 lf			8,750			250.00 /lf	8,750
02520 Wells		864		8,750		500		10,114
3b Drill and Grout In Place 36" 0.375" Casing Pipe 0' to 35'(±)	35.00 FT	864		8,750		500	288.97 /FT	10,114
3c Drill 10 - 12.25" Pilot Boring 95' Into Hawthorn Group								
02520 Wells								
02520.4608 Drill Pilot Hole	95.00 lf			3,325			35.00 /lf	3,325
02520 Wells				3,325				3,325
3c Drill 10 - 12.25" Pilot Boring 95' Into Hawthorn Group	95.00 FT			3,325			35.00 /FT	3,325
3d Perform Geophysical Logging (Caliper, Gamma and Electric to 95' +/-)								
02520 Wells								
02520.4610 Conduct Geophysical Log	95.00 lf			1,710			18.00 /lf	1,710
02520.4680 Conduct Caliper Log	95.00 lf			1,710			18.00 /lf	1,710
02520.4681 Conduct Video Survey	95.00 lf			1,710			18.00 /lf	1,710
02520 Wells				5,130				5,130
3d Perform Geophysical Logging (Caliper, Gamma and Electric to 95' +/-)	1.00 LS			5,130			5,130.00 /LS	5,130
3e Ream 36" Nominal Borehole By Mud-Rotary Method to 95'±								
02520 Wells								
02520.4612 Ream 39" Diameter Borehole	70.00 lf			4,725			67.50 /lf	4,725
02520 Wells				4,725				4,725
3e Ream 36" Nominal Borehole By Mud-Rotary Method to 95'±	70.00 FT			4,725			67.50 /FT	4,725
3f Drill and Grout In Place 30" 0.375" Casing Pipe 0' to 95'±								
02520 Wells								
02520.4614 Install 30" Diameter Intermediate Casing	100.00 lf			27,700			277.00 /lf	27,700
02520 Wells				27,700				27,700
3f Drill and Grout In Place 30" 0.375" Casing Pipe 0' to 95'±	95.00 FT			27,700			291.58 /FT	27,700
3g Drill 10 - 12.25" Pilot Boring to Approx. 530'± Into Florida Aquifer								
02520 Wells								
02520.4608 Drill Pilot Hole	430.00 lf			15,050			35.00 /lf	15,050
02520 Wells				15,050				15,050
3g Drill 10 - 12.25" Pilot Boring to Approx. 530'± Into Florida Aquifer	430.00 FT			15,050			35.00 /FT	15,050
3h Perform Geophysical Logging (Caliper, Gamma and Electric)								
02520 Wells								
02520.4610 Conduct Geophysical Log	430.00 lf			2,086			4.85 /lf	2,086
02520.4680 Conduct Caliper Log	430.00 lf			1,356			3.15 /lf	1,356
02520 Wells				3,441				3,441
3h Perform Geophysical Logging (Caliper, Gamma and Electric)	1.00 LS			3,441			3,441.29 /LS	3,441
3i Ream 29" Nominal Borehole By Mud-Rotary Method To 530'±								
02520 Wells								



Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
02520.4616 Ream 29" Diameter Borehole	430.00 If			21,500			50.00 /lf	21,500
02520 Wells				21,500				21,500
3i Ream 29" Nominal Borehole By Mud-Rotary Method To 530'±	430.00 FT			21,500			50.00 /FT	21,500
3j Perform Geophysical Logging (Caliper, Gamma and Electric)								
02520 Wells								
02520.4610 Conduct Geophysical Log	430.00 If			2,150			5.00 /lf	2,150
02520.4680 Conduct Caliper Log	430.00 If			1,398			3.25 /lf	1,398
02520 Wells				3,548				3,548
3j Perform Geophysical Logging (Caliper, Gamma and Electric)	1.00 LS			3,548			3,547.50 /LS	3,548
3k D & G In Place 20" 0.375" Casing(From Surface to Upper Floridian Aquif								
02520 Wells								
02520.4618 Install 20" Diameter Final Casing	530.00 If			106,000			200.00 /lf	106,000
02520 Wells				106,000				106,000
3k D & G In Place 20" 0.375" Casing(From Surface to Upper Floridian Aquif	530.00 FT			106,000			200.00 /FT	106,000
3l Drill 10-12.25" Pilot Bore By Reverse Air Drilling To 1300'±								
02520 Wells								
02520.4608 Drill Pilot Hole	770.00 If			26,950			35.00 /lf	26,950
02520 Wells				26,950				26,950
3l Drill 10-12.25" Pilot Bore By Reverse Air Drilling To 1300'±	770.00 FT			26,950			35.00 /FT	26,950
3m Static and Dynamic Geophysical and Full Video Logging Section 02853								
02520 Wells								
02520.4620 Conduct Static & Dynamic Geophysical/Video Logging	1,300.00 If			6,500			5.00 /lf	6,500
02520.4680 Conduct Caliper Log	1,300.00 If			4,225			3.25 /lf	4,225
02520.4681 Conduct Video Survey	1,300.00 If			4,550			3.50 /lf	4,550
02520 Wells				15,275				15,275
3m Static and Dynamic Geophysical and Full Video Logging Section 02853	1.00 LS			15,275			15,275.00 /LS	15,275
3n Ream 18" Borehole By Reverse Air Drilling to 1,280'±								
02520 Wells								
02520.4622 Ream 18" Diameter Borehole	750.00 If			26,950			35.93 /lf	26,950
02520 Wells				26,950				26,950
3n Ream 18" Borehole By Reverse Air Drilling to 1,280'±	750.00 FT			26,950			35.93 /FT	26,950
3o Perform Geophysical Logging (Caliper, Gamma and Video)								
02520 Wells								
02520.4610 Conduct Geophysical Log	750.00 If			2,138			2.85 /lf	2,138
02520.4680 Conduct Caliper Log	750.00 If			1,390			1.85 /lf	1,390
02520.4681 Conduct Video Survey	750.00 If			1,496			2.00 /lf	1,496
02520 Wells				5,024				5,024
3o Perform Geophysical Logging (Caliper, Gamma and Video)	1.00 LS			5,024			5,023.50 /LS	5,024
3p Perform Plumbness and Alignment Test								
02520 Wells								
02520.4624 Perform plumbness and alignment test	1.00 ls			4,000			4,000.00 /ls	4,000
02520 Wells				4,000				4,000
3p Perform Plumbness and Alignment Test	1.00 LS			4,000			4,000.00 /LS	4,000
3q Develop Well With Temporary Pump Flowing To 3,000 GPM								
02520 Wells								
02520.4626 Develop Well With Temporary Pump Flowing To 3,000 GPM	14.00 hr			8,350			596.43 /hr	8,350
02520 Wells				8,350				8,350
3q Develop Well With Temporary Pump Flowing To 3,000 GPM	14.00 HR			8,350			596.43 /HR	8,350
3r Conduct Step Drawdown Test and Field Water Samples per Section 02863								
02520 Wells								
02520.4628 Conduct step drawdown test and field water samples	1.00 ls			6,800			6,800.00 /ls	6,800
02520 Wells				6,800				6,800
3r Conduct Step Drawdown Test and Field Water Samples per Section 02863	1.00 LS			6,800			6,800.00 /LS	6,800
3s Collect Primary and Secondary Water Samples per Section 02863								
02520 Wells								
02520.4632 Collect Primary and Secondary Water Samples	1.00 ls			6,000			6,000.00 /ls	6,000
02520 Wells				6,000				6,000
3s Collect Primary and Secondary Water Samples per Section 02863	1.00 LS			6,000			6,000.00 /LS	6,000
3t Install Temporary Wellhead per Contract Documents								
02520 Wells								
02520.4640 Temporary Tapped Plug w/Welded O-Let, 20" x 2"	1.00 ea			2,400			2,400.00 /ea	2,400
02520 Wells				2,400				2,400
13420 I&C Instruments								
13420.4605 Pressure Gauge	1.00 ea	91	120			120	330.79 /ea	331
13420 I&C Instruments		91	120			120		331
15117 Ball Valve								



JEA, FL
Well No.15
(INDIRECT COSTS UN-ALLOCATED)

4/25/2017 4:25 PM

Spreadsheet Level	Takeoff Quantity	Labor Amount	Material Amount	Sub Amount	Equip Amount	Other Amount	Total Cost/Unit	Total Amount
15117.4605 2" PVC Ball Valve FL x FL	2.00 ea	115	1,919			24	1,028.76 /ea	2,058
15117.4608 1/2" PVC Ball Valve	1.00 ea	24	13			12	49.05 /ea	49
15117.4610 1/4" Bronze Ball Valve	2.00 ea	51	136			24	105.66 /ea	211
15117 Ball Valve		190	2,068			60		2,318
15241 PVC Pipe & Fittings								
15241.4605 2" PVC SCH80 Pipe & Fittings	1.00 ls	138	328		0		465.58 /ls	466
15241.4610 1/2" & 1/4" PVC SCH80 Fittings	1.00 ls	36	41				76.51 /ls	77
15241 PVC Pipe & Fittings		174	368		0			542
3t Install Temporary Wellhead per Contract Documents	1.00 LS	455	2,556	2,400	0	180	5,590.76 /LS	5,591
4a Contractor's Provision for Equipment Standby Time								
02520 Wells								
02520.4655 Standby Time	24.00 hr			3,600			150.00 /hr	3,600
02520 Wells				3,600				3,600
4a Contractor's Provision for Equipment Standby Time	24.00 HR			3,600			150.00 /HR	3,600
4b Contractor's Provision for Equipment and Crew Standby Time								
02520 Wells								
02520.4655 Standby Time	24.00 hr			6,600			275.00 /hr	6,600
02520 Wells				6,600				6,600
4b Contractor's Provision for Equipment and Crew Standby Time	24.00 HR			6,600			275.00 /HR	6,600
4c Supplemental Work Authorization								
01220 Allowances								
01000.4699 Supplemental Work Authorization	1.00 ls					30,000	30,000.01 /ls	30,000
01220 Allowances						30,000		30,000
4c Supplemental Work Authorization	1.00 LS					30,000	30,000.01 /LS	30,000

Estimate Totals

Description	Amount	Totals	Hours	Rate
Labor	4,745		116 hrs	
Material	4,980			
Subcontract	347,084			
Equipment	2,916		45 hrs	
Other	30,680			
Subtotal Direct Costs:	390,405	390,405		
Indirect Costs				
Permits	2,500			
Sales Tax (MEO)-Duvall Cty	506			7.00 %
Bldr's Risk Ins - Not Req'd				
Gen Liab Ins (% total cost)	4,972			1.00 %
GC Bonds (% total cost)	7,458			1.50 %
Subtotal Prior to OH&P:	15,436	405,841		
GC General Conditions	18,792			5.00 %
Contractor Total OH&P	30,067			8.00 %
Subtotal with OH&P:	48,859	454,700		
Estimate Contingency	42,470			10.00 %
OPCC Total:	42,470	497,170		