

City of Delray Beach Golf RAW Water Transmission Main Replacement and Golf Course Renovation Design Services

Fee Summary

GOLF COURSE IMPROVEMENTS

Item	Sanford Golf Design	Staples Golf Design	Pignato Group	Burrows Turfgrass	Total Fees
Golf Course Restoration Design					
Initial Design (30%)	\$35,000.00	\$18,525.00	\$6,000.00	\$0.00	\$59,525.00
Design Development (60%)	\$60,000.00	\$10,775.00	\$7,000.00	\$0.00	\$77,775.00
Construction Documents (100%)	\$99,000.00	\$4,250.00	\$10,000.00	\$5,000.00	\$118,250.00
Bid Phase Services	\$16,500.00	\$0.00	\$2,000.00	\$0.00	\$18,500.00
Totals	\$210,500.00	\$33,550.00	\$25,000.00	\$5,000.00	\$274,050.00

Project Management*	\$145,000.00
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MAINTENANCE FACILITY, RESTROOMS AND PUMP HOUSE

Item	DQ Studio Architects	Structural Eng	MEP Engineer	Civil Eng / LA	Total Fees
Maintenance Facility					
Construction Drawings and Permitting	\$14,025.00	\$49,932.00	\$9,775.00	\$97,731.00	\$171,463.00
Irrigation Pump House					
Construction Drawings and Permitting	\$2,550.00	\$1,275.00	\$1,700.00	\$10,672.00	\$16,197.00
Golf Course Restrooms					
Construction Drawings and Permitting	\$2,550.00	\$1,275.00	\$1,700.00	\$0.00	\$5,525.00
Totals	\$19,125.00	\$52,482.00	\$13,175.00	\$108,403.00	\$193,185.00

**Kimley-Horn's structural, civil engineering and landscape architecture fee breakdown for the maintenance are provided for budgeting purposes. Actual amounts may vary.

ENGINEERING AND LANDSCAPE ARCHITECTURE

Item	Kimley-Horn	Avirom	Inframp	Tierra	C&W	JLA	Total Fees
Civil/Structural, Golf Course Structural, Landscape Architecture, Design, Well and Onsite Raw Watermain Replacement (Onsite)							
Data Collection	\$32,751.50	\$59,209.00	\$10,308.86	\$27,314.50	\$0.00	\$0.00	\$129,583.86
Construction Drawings	\$478,091.50	\$0.00	\$0.00	\$0.00	\$23,000.00	\$22,310.00	\$523,401.50
Permitting	\$58,878.00	\$0.00	\$0.00	\$0.00	\$1,250.00	\$5,040.00	\$65,168.00
Bid Phase Services	\$10,851.50	\$0.00	\$0.00	\$0.00	\$1,250.00	\$2,910.00	\$15,011.50
Watermain Replacement (Offsite)							
Data Collection and Design Meetings	\$57,095.00	\$22,891.00	\$58,416.90	\$18,664.00	\$0.00	\$0.00	\$157,066.90
Construction Drawings	\$307,377.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$307,377.00
Permitting	\$19,994.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,994.00
Bid Phase Services	\$15,005.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,005.00
Totals	\$980,043.50	\$82,100.00	\$68,725.76	\$45,978.50	\$25,500.00	\$30,260.00	\$1,232,607.76

Project Administration	\$33,613.00
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COMMUNITY OUTREACH

Item	Sanford Golf Design	Staples Golf Design	Kimley-Horn	Total Fees
Community Engagement/Public Outreach	\$20,000.00	\$19,500.00	\$43,199.00	\$82,699.00

		% of Project Costs
Total Golf Course, RAW Mainline and Wells Design Fees	\$1,506,657.76	6.55%
Total Golf Course Maintenance Facility, Restrooms and Pump House Design Fees	\$193,185.00	0.84%
Total Community Engagement	\$82,699.00	0.36%
Total Project Management	\$178,613.00	0.78%
Post-Design Services Allowance	\$165,000.00	0.72%
Reimbursable Allowance	\$73,545.24	0.32%
TOTAL	\$2,199,700.00	9.24%

Raw Water Transmission Main Replacement and Golf Course Renovation Design Services

ESTIMATE FOR ENGINEERING SERVICES

PROJECT:	Delray Beach Golf Course and Raw Water main									SHEET 1 of 1		
CLIENT:	City of Delray Beach									FILE NO.		
ESTIMATOR:										DATE:	\$ 43,966.00	
										ALLOCA		
DESCRIPTION: See Scope of Services	DIRECT LABOR (MAN-HOURS)											
										SUB	EXP	LINE
	Principal	Principal Engineer	Sr Professional	Project Engineer	Sr. Analyst	Analyst	Sr. Designer	Field Inspector	Admin Addt			TOTAL
	285.00	215.00	185.00	158.00	125.00	110.00	145.00	120.00	79.00			
Task 1 Project Meetings and Progress Reports												\$0
Initial Project Setup/Progress Reports with invoices per RFQ (up to 16 months)		22.0		16.0		22.0			22.0			\$11,416
Kickoff Meetings with City/Sanford (up to 2)		6.0	6.0	6.0	6.0	6.0			2.0			\$4,916
Coordination Meetings with City/Sanford (assume biweekly during design, up to 9 months, bi-monthly for following 7 months, 22 meetings)		44.0		44.0					11.0			\$17,281
												\$0
Task 2 - Golf Course Improvements												\$0
												\$0
Task 2A - Data Collection												\$0
Coordination with Florida Sunshine and Utilities for Record Drawings		2.0		2.0	9.0				1.0			\$1,950
Review Record Drawings		1.0		2.0	18.0				1.0			\$2,860
Golf Course Survey		2.0		2.0	2.0				2.0	\$ 59,209.00		\$60,363
Coordinate with Locate Information and include on existing base (20)		2.0		2.0	9.0				2.0	\$ 10,308.86		\$12,338
Geotechnical Investigation		2.0		2.0	2.0				2.0	\$ 27,314.50		\$28,469
Work Plan/Schedule Implementation for QA/QC		42.0		42.0		42.0			42.0			\$23,604
												\$0
												\$0
Task 2B - Design and Plans												\$0
												\$0
2.B.1 Civil/Structural/LS Tasks												
Conceptual Planning	5.0						36.0		2.0			\$6,803
Civil Plans and Calcs - Parking, Maintenance, Commerce Drive	10.0	20.0		100.0		100.0	100.0			\$ 6,000.00		\$54,450
Site Plan Approval	12.0		100.0			90.0			25.0			\$33,795
Golf Course Civil Engineering												\$0
PGD/Land Development - Schwartz and team	10.0	15.0		10.0		60.0	80.0					\$25,855
Reclaimed System Design/Modification/pond lining		9.0		18.0		36.0						\$8,739
Irrigation System Connection		4.0		6.0		18.0						\$3,788
Future Recharge System Design		6.0		18.0		25.0						\$6,884
												\$0
2 B.2 Golf Course Structural Plans												
North Bridge Repair Plans		4.0	6.0	15.0	30.0	0.0	60.0	4.0	6.0			\$17,744
South Bridge Replacement	15.0	57.0	91.0	65.0	20.0	0.0	114.0	8.0	12.0			\$64,573
Aerial Pipe	4.0	18.0	20.0	11.0	0.0	0.0	28.0	0.0	3.0			\$14,745
Maintenance Building Foundations, Pad, Bin Design	8.0	50.0	70.0	60.0	0.0	0.0	90.0	0.0	18.0			\$49,932
2B.3 Landscape Architecture												
Tree Disposition Plan		30.0		40.0		80.0						\$21,570
Planting Plan		50.0		100.0		240.0						\$52,950
Limited Irrigation Plans, Details, Specs		0.0		0.0		0.0						\$0
												\$0
2.B.4 Well Replacement (Tasks 1 and 2)												
Well-Siting	2.0	10.0	20.0	0.0	40.0	0.0	0.0	0.0	8.0			\$12,052
Construction Documents	12.0	30.0	99.0	0.0	138.0	0.0	0.0	0.0	34.0			\$48,121
JLA										\$ 22,310.00		\$22,310
C&W										\$ 17,000.00		\$17,000

PROJECT:	Delray Beach Golf Course and Raw Water main								SHEET 1 of 1			
CLIENT:	City of Delray Beach								FILE NO.			
ESTIMATOR:									DATE:	\$ 43,966.00		
									ALLOCA			
DESCRIPTION: See Scope of Services				DIRECT LABOR (MAN-HOURS)								
										SUB	EXP	LINE
	Principal	Principal Engineer	Sr Professional	Project Engineer	Sr. Analyst	Analyst	Sr. Designer	Field Inspector	Admin Addt			TOTAL
	285.00	215.00	185.00	158.00	125.00	110.00	145.00	120.00	79.00			
2.B.5 Onsite Raw Watermain Replacement												
Site Visit (2)		4.0		8.0		8.0						\$3,004
Meetings with City (2)		4.0		8.0		8.0						\$3,004
Utility Coordination Meetings (1)				2.0		3.0						\$646
Meeting with LWDD		4.0		4.0								\$1,492
												\$0
Construction Plans												\$0
Cover Sheet		0.5		1.0		2.0						\$486
General Notes (1 Sheet)		2.0		6.0		9.0						\$2,368
Overall Site Plan (1 Sheet)		2.0		4.0		9.0						\$2,052
Phasing Plan (1 Sheet)		9.0		9.0		20.0						\$5,557
Raw Watermain Plan and Profile (24 Sheets)	24.0	120.0		240.0		600.0						\$136,560
Aerial Crossing Plan and Profile (2 Sheets)	3.0	9.0		18.0		40.0						\$10,034
Utility Construction Details	6.0	18.0		18.0		60.0						\$15,024
Standard Details		2.0		6.0		12.0						\$2,698
												\$0
Technical Specifications		9.0		40.0		18.0			12.0			\$11,183
												\$0
30%, 60%, 100 OPC		6.0		18.0		40.0						\$8,534
												\$0
30%, 60% Plan Submittal		6.0		12.0		18.0			18.0			\$6,588
Make Revisions, Finalize	9.0	9.0		9.0		18.0						\$7,902
Prepare documents for bidding		3.0		6.0		9.0			9.0			\$3,294
												\$0
												\$0
Task 2C- Permitting												
LWDD/SFWMD ERP	15.0	40.0				120.0			25.0			\$28,050
Environmental				4.0	12.0		30.0					\$6,482
												\$0
FDEP - Wells/SWMFD WUP letter	2.0	6.0	14.0	0.0	28.0	0.0	0.0	0.0	8.0			\$8,582
JLA										\$ 5,040.00		\$5,040
C&W										\$ 1,250.00		\$1,250
												\$0
PBCHD – Raw watermain – ft		6.0		9.0		18.0			4.0			\$5,008
												\$0
Building Department Preliminary		12.0		24.0		24.0			6.0			\$9,486
												\$0
LWDD Notification		1.0		2.0		6.0			1.0			\$1,270
												\$0
Permit Fee Allowance											\$42,734	\$42,734
												\$0
Task 2D - Bid Phase Services												
												\$0
Attend Prebid		3.0		3.0								\$1,119
Answer Questions		6.0	9.0	9.0		24.0			2.5			\$7,215
Review of Low Bid/Letter		3.0		3.0		12.0			1.0			\$2,518
JLA										\$ 2,910.00		\$2,910
C&W										\$ 1,250.00		\$1,250
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PROJECT:	Delray Beach Golf Course and Raw Water main								SHEET 1 of 1			
CLIENT:	City of Delray Beach								FILE NO.			
ESTIMATOR:									DATE:	\$ 43,966.00		
									ALLOCA			
DESCRIPTION: See Scope of Services				DIRECT LABOR (MAN-HOURS)								
										SUB	EXP	LINE
	Principal	Principal Engineer	Sr Professional	Project Engineer	Sr. Analyst	Analyst	Sr. Designer	Field Inspector	Admin Addt			TOTAL
	285.00	215.00	185.00	158.00	125.00	110.00	145.00	120.00	79.00			
3B Offsite Raw Watermain Replacement												
Site Visit (3)		8.0		12.0		12.0						\$4,936
Meetings with City (4)		8.0		16.0		8.0						\$5,128
Utility Coordination Meetings (3)				6.0		9.0			4.5			\$2,294
Perform hydraulic modeling		9.0		18.0		18.0						\$6,759
Meetings with PBC, FDOT, CSX (4 total)		12.0		12.0		20.0			6.0			\$7,150
Stakeholder Meetings (up to 4)		12.0		12.0		20.0			6.0			\$7,150
Construction Plans												\$0
Cover Sheet		0.5		1.0		2.0						\$486
General Notes (1 Sheet)		2.0		6.0		9.0						\$2,368
Overall Site Plan (1 Sheet)		2.0		4.0		9.0						\$2,052
Phasing Plan (1 Sheet)		9.0		9.0		20.0						\$5,557
Raw Watermain Plan and Profile (25 Sheets)	25.0	200.0		375.0		600.0						\$175,375
CSX Crossing Plan and Profile (1 Sheet)	3.0	9.0		18.0		25.0						\$8,384
Utility Construction Details (8 sheets)	8.0	40.0		80.0		160.0						\$41,120
Standard Details		2.0		6.0		12.0						\$2,698
												\$0
Technical Specifications		9.0		30.0		18.0			12.0			\$9,603
												\$0
30%, 60%, 100 OPC		6.0		18.0		40.0						\$8,534
												\$0
30%, 60% Plan Submittal		6.0		12.0		18.0			18.0			\$6,588
Make Revisions, Finalize	9.0	9.0		9.0		18.0						\$7,902
Prepare documents for bidding		3.0		6.0		9.0			9.0			\$3,294
												\$0
Task 3C Public Outreach												
Public Outreach												\$0
PBI Meetings (up to 2)		18.0		30.0		30.0			6.0			\$12,384
Create website		2.0		30.0								\$5,170
Maintain website (up to 16 months)				32.0								\$5,056
Develop mailing list (up 2x)		9.0				36.0			6.0			\$6,369
Send notices (up to 2x)		9.0		9.0		36.0			6.0			\$7,791
Attend 1 City Commission meeting		9.0		15.0		15.0			6.0			\$6,429
												\$0
Task 3D- Permitting												
												\$0
FDOT Utility Permit		4.0		9.0		12.0			4.0			\$3,918
PBC Utility Permit		4.0		9.0		12.0			4.0			\$3,918
												\$0
PBCHD – Raw watermain – fit		6.0		9.0		18.0			4.0			\$5,008
												\$0
CSX RR Permit		12.0		12.0		20.0			6.0			\$7,150
												\$0
Permit Fee Allowance											\$5,500	\$5,500
												\$0
Task 3E - Bid Phase Services												
												\$0
Attend Prebid (2)		6.0		6.0								\$2,238
Answer Questions		12.0		12.0		30.0			5.0			\$8,171
Review of Low Bid/L												

Raw Water Transmission Main Replacement and Golf Course Renovation Design Services

Delray Beach Golf Club - Staff Hours and Fee Estimate

DESIGN PHASE	Principal	Senior Design Associate	Technical / CAD	Administrative
Hourly Rate	\$225.00	\$175.00	\$125.00	\$100.00
Community Engagement				
Design and Community Engagement Coordination				
Coordination for Community Engagement	17	19	0	8
Community Engagement				
Presentation Materials	2	2	4	3
Initial Engagement Session	16	0	0	0
Townhall Evening Meeting	8	0	0	0
Community Meeting (Upon 90% Completion of Master Plan)	8	0	0	0
City Update Meetings	8	0	0	0
Coordinate Summary Report	4	2	0	2
Subtotal Hours	63	23	4	13
Subtotal Fee	\$14,175.00	\$4,025.00	\$500.00	\$1,300.00

Initial Design (30% Review)				
Design and Community Engagement Coordination				
Coordination for Golf Course Design Team	16	8	0	4
Base Information				
Convert, assemble, label base topographic files	3	2	11	0
Schematic Design				
Historic Documentation				
Research/Analysis	12	2	0	2
Graphic Depiction Sketches	12	3	3	0
Report and Digital File	6	2	2	2
Golf Course Master Plan				
Draw/Digitize Proposed Features	8	8	20	0
Quantify Golf Course Features	1	1	2	0
Develop Scorecard, General Notes, Tabular Data, etc.	1	1	2	0
Plan Sheet Setup	0	0	2	0
Plan Rendering	1	1	8	0
Preliminary Estimate of Probable Costs	6	2	2	2
Meetings (2) and Summary Report	16	4	0	2
City Review/Approval	10	2	0	3
Subtotal Hours	92	36	52	15
Subtotal Fee	\$20,700.00	\$6,300.00	\$6,500.00	\$1,500.00

Design Development (60% Review)				
Design Coordination				
Coordination for Golf Course Design Team	40	36	0	10
Design Development Documents				
Preliminary Staking and Layout Plan				
Sketch Golf Course Feature Design Refinements	4	4	1	0
Digitize Golf Course Feature Design Refinements	0	1	10	0
Quantify Golf Course Feature Scorecard, and Staking Coordinates	2	2	4	0
Preliminary Clearing and Demolition Plan				
Draw Clearing Limits and Demo Areas	4	2	1	0
Digitize Clearing Limits and Demo Area	0	1	10	0
Plan Sheet Setup	0	0	1	0
Quantify Cleared and Demo Areas	1	2	2	0
Preliminary Grading Plan				
Draw Conceptual Grading	16	24	2	0
Digitize Contour and Label	1	2	38	0
Earthwork Calculations	3	3	12	0

Raw Water Transmission Main Replacement and Golf Course Renovation Design Services

<i>Plan Sheet Setup</i>	0	0	1	0
Preliminary Drainage Plan				
<i>Draw Preliminary Drainage</i>	4	4	1	0
<i>Digitize Basins and Pipe Routings</i>	0	0	6	0
<i>Plan Sheet Setup</i>	0	0	1	0
<i>Quantify Golf Course Drainage Components</i>	1	1	2	0
Preliminary Grassing Plan				
<i>Digitize Grassing Areas</i>	2	2	4	0
<i>Plan Sheet Setup</i>	0	0	1	0
<i>Quantify Grassing Areas</i>	0	1	2	0
Estimate of Probable Costs Update	6	6	0	3
Meetings (2) and Summary Report	16	16	0	4
City Review/Approval	14	6	0	5
Subtotal Hours	114	113	99	22
Subtotal Fee	\$25,650.00	\$19,775.00	\$12,375.00	\$2,200.00

Construction Documents (100% Final)				
Design Coordination				
Coordination for Golf Course Design Team	74	50	0	10
Construction Drawings				
Staking and Layout Plan				
<i>Draw Layout and Staking Revisions</i>	6	2	0	0
<i>Digitize Layout and Staking Revisions</i>	0	0	8	0
<i>Scorecard, Quantities and Coordinate Revisions</i>	1	1	1	0
Clearing Plan				
<i>Draw Clearing and Demo Revisions</i>	2	4	0	0
<i>Digitize Clearing and Demo Revisions</i>	0	0	6	0
<i>Quantify Revisions</i>	2	1	1	0
Grading Plan				
<i>Draw Grading Revisions</i>	8	6	1	0
<i>Digitize Grading Revisions</i>	0	2	30	0
<i>Update Earthwork Calculations</i>	2	2	6	0
Drainage Plan				
<i>Draw Drainage Revisions</i>	2	0	0	0
<i>Digitize Drainage Revisions</i>	0	0	4	0
<i>Update Drainage Quantities</i>	2	1	2	0
Grassing Plan				
<i>Grassing Revisions</i>	2	2	4	0
<i>Update Grassing Quantities</i>	2	2	2	0
Tree Massing Plans				
<i>Draw Tree Massing Layout</i>	6	8	2	0
<i>Digitize Tree Massings</i>	0	0	8	0
<i>Plan Sheet Setup</i>	0	0	2	0
<i>Quantify and Specify Trees</i>	2	2	2	0
Golf Course Construction Details	4	2	6	0
Green Detail Plans				
<i>Sketch Green Details</i>	20	30	10	0
<i>Digitize Green Details</i>	2	5	60	0
<i>Plan Sheet Setup</i>	0	0	6	0
Specifications	16	4	0	8
Revise and Prepare Construction Drawings and Specifications	20	20	20	5
Meetings (2) and Summary Report	16	6	0	2
City Review/Approval	14	10	0	2
Subtotal Hours	203	160	181	27
Subtotal Fee	\$45,675.00	\$28,000.00	\$22,625.00	\$2,700.00

Raw Water Transmission Main Replacement and Golf Course Renovation Design Services

Bidding Administration				
Bidding Coordination				
Manage Golf Course Design Team Documents (Including Maintenance Facility, Bridges, Parking Lot, Landscape Architecture, Civil Engineering)	12	16	0	7
Bid Documents				
Prepare Bidding Specifications	4	2	0	2
Prepare Bid Form	2	2	0	2
Tender Bid Documents to Approved Golf Course Contractors	4	0	0	1
Conduct One (1) Onsite Prebid Meeting	6	4	0	0
Prepare Addendas, Clarifications and Supplemental Information	6	2	0	2
Bid Review				
Provide Bid tabulations Spreadsheet	2	0	0	2
Provide Bid Evaluation and Recommendations	2	2	0	1
Meeting (1) with City to Review Bids	4	2	0	1
Subtotal Hours	42	30	0	18
Subtotal Fee	\$9,450.00	\$5,250.00	\$0.00	\$1,800.00

Total Hours	514	362	336	95
Total Fee	\$115,650.00	\$63,350.00	\$42,000.00	\$9,500.00
			TOTAL FEE:	\$230,500.00

Other Services

Staples (Golf Course Co-Design & Comm. Engagement)	\$53,050.00
Pignato (Irrigation Design)	\$25,000.00
Burrows (Agronomy)	\$5,000.00
DQ Studios (Maint. Facility, Restrooms, Pump House)	\$34,850.00
Total Subconsultant Fees	\$117,900.00

Project Management \$145,000.00

Total Fee: \$493,400.00

Delray Beach Golf Course - Estimate of Project Management Hours

PROJECT MANAGEMENT ITEMS (For 16 Months)	TOTAL HRS	PRINCIPAL	SR. DESIGN ASSOC.	TECH/CAD	ADMIN.	TOTAL FEE
Project Guidance						
Project Planning:						
Develop and Review Project Plan / Schedule / Costs (16 Months)	64.0	32	25.6	0	6.4	\$12,320.00
Develop and Review Project Objectives / Procedures (16 Months)	32.0	16	12.8	0	3.2	\$6,160.00
Project Tracking:						
Review Progress and Provide Status Report (16 Months)	64.0	22.4	25.6	0	16	\$11,120.00
Budget Tracking (16 Months)	64.0	22.4	25.6	0	16	\$11,120.00
Virtual Meetings with City and Project Team (16 Months)	69.3	24.3	27.7	0	17.3	\$12,045.00
Project Directing:						
Manage Communications and Activities with Project Team (16 Months)	256.5	77	115.4	0	64.1	\$43,930.00
Manage and Review Value Engineering Efforts (16 Months)	48.0	14.4	21.6	0	12	\$8,220.00
Manage RFI Responses (0 Months)	0.0	0	0	0	0	\$0.00
Manage Shop Drawing and Sample Submittals / Responses (0 Months)	0.0	0	0	0	0	\$0.00
Review Sub-Consultant Work Products (Not QA/QC - 16 Months)	64.0	19.2	28.8	0	16	\$10,960.00
Project Administration						
Contract Oversight:						
Manage Insurance Requirements / Certificates	4.4	0.4	0.9	0	3.1	\$565.00
Manage Requested Consultant Scope Changes and Related Fees	16	1.6	3.2	0	11.2	\$2,040.00
Accounting:						
Manage Consultant Team Billing	32	3.2	6.4	0	22.4	\$4,080.00
Prepare/Submit Team Invoices and Address Questions	112	11.2	22.4	0	78.4	\$14,280.00
Payment Tracking and Distribution	64	6.4	12.8	0	44.8	\$8,160.00
Total	890.2	250.5	328.8	0.0	310.9	\$145,000.00
		\$56,372.21	\$57,537.60	\$0.00	\$31,090.20	