



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

ENGINEER'S OPINION
OF PROBABLE COST
WORKSHEET

DATE
1/24/2018

PROJECT NAME				CGA PROJECT No.	
SW/SE Quad Hallandale Drainage Improvements (Addendum 2)				09-2591.22	
LOCATION					
City of Hallandale Beach, FL					
OWNER					
City of Hallandale Beach					
ESTIMATED BY MJI		CHECKED BY	JDM	APPROVED BY	JRM
ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE FURNISH & INSTALL	ESTIMATED AMOUNT
I. GENERAL ITEMS					
1.01	General Requirements - 4%	1	LS	\$ 338,290.51	\$ 338,290.51
1.02	Mobilization/Demobilization - 2%	1	LS	\$ 169,145.25	\$ 169,145.25
1.03	Maintenance of Traffic - 0.5%	1	LS	\$ 42,286.31	\$ 42,286.31
1.04	Testing and Survey - 0.5%	1	LS	\$ 42,286.31	\$ 42,286.31
1.05	Prevention, Control and Abatement of Erosion and Water Pollution - 0.5%	1	LS	\$ 42,286.31	\$ 42,286.31
1.06	Permitting Allowance	1	AL	\$ 60,000.00	\$ 60,000.00
1.07	Record Drawings - 0.5%	1	LS	\$ 42,286.31	\$ 42,286.31
1.08	Trench Safety, Shoring, and Security Fencing - 1%	1	LS	\$ 84,572.63	\$ 84,572.63
				GENERAL ITEMS SUBTOTAL	\$ 821,153.64
II. ASPHALT OVERLAY					
2.01	1" Asphalt Type 9.5 Overlay	8,222	SY	\$ 6.98	\$ 57,389.56
2.02	4' Asphalt Milling	5,293	SY	\$ 2.50	\$ 13,232.50
2.03	Adjust Existing Manhole Rims	20	EA	\$ 517.83	\$ 10,356.60
2.04	Adjust Existing Valve Boxes	40	EA	\$ 325.00	\$ 13,000.00
				ASPHALT OVERLAY SUBTOTAL	\$ 93,978.66
III. PAVING, GRADING, AND DRAINAGE					
3.01	18" RCP Storm Pipe (Including Backfilling, Compaction and Full-Depth Pavement Reconstruction)	213	LF	\$ 50.00	\$ 10,650.00
3.02	24" DIP Stormwater Force Main (Including Backfilling, Compaction and Full-Depth Pavement Reconstruction)	1,235	LF	\$ 271.81	\$ 335,685.35
3.03	30" DIP Stormwater Force Main (Including Backfilling, Compaction and Full-Depth Pavement Reconstruction)	538	LF	\$ 320.09	\$ 172,208.42
3.04	36" DIP Stormwater Force Main (Including Backfilling, Compaction and Full-Depth Pavement Reconstruction)	357	LF	\$ 389.33	\$ 138,990.81
3.05	48" DIP Stromwater Force Main (Including Backfilling, Compaction and Full-Depth Pavement Reconstruction)	1,247	LF	\$ 539.61	\$ 672,893.67
3.06	60" DIP Stormwater Force Main (Including Backfilling, Compaction and Full-Depth Pavement Reconstruction)	95	LF	\$ 852.20	\$ 80,959.00
3.07	24" DIP Forcemain Fittings (Bends, Valves, etc.)	14.0	TN	\$ 3,325.00	\$ 46,483.50
3.08	30" DIP Forcemain Fittings (Bends, Valves, etc.)	13.0	TN	\$ 3,675.00	\$ 47,775.00
3.09	36" DIP Forcemain Fittings (Bends, Valves, etc.)	8.4	TN	\$ 6,825.00	\$ 57,330.00
3.10	48" DIP Forcemain Fittings (Bends, Valves, etc.)	135.0	TN	\$ 10,900.00	\$ 1,471,500.00
3.11	60" DIP Forcemain Fittings (Bends, Valves, etc.)	15.8	TN	\$ 11,675.00	\$ 184,231.50
3.12	4' Diameter Storm Manhole	3	EA	\$ 4,223.17	\$ 12,669.51
3.13	4' Diameter Storm Catch Basin	2	EA	\$ 4,223.17	\$ 8,446.34
3.14	24" x 37" FDOT Type C Structure	1	EA	\$ 3,500.00	\$ 3,500.00
3.15	Pollution Retardant Baffle	4	EA	\$ 1,400.00	\$ 5,600.00
3.16	48" Flap Gates	4	EA	\$ 12,100.00	\$ 48,400.00
3.17	72" x 90" SS Multi Disc Slide Gate	1	EA	\$ 52,000.00	\$ 52,000.00
3.18	Core Existing Drainage Structures	2	EA	\$ 3,800.00	\$ 7,600.00
3.19	Brick and Mortar Existing Manhole Connection	2	EA	\$ 2,000.00	\$ 4,000.00
3.20	Remove Existing Drainage Pipes (All Types)	243	LF	\$ 21.20	\$ 5,151.60
3.21	Removal and Disposal of Unsuitable Soils	2,464	CY	\$ 15.00	\$ 36,960.00
3.22	Pressure Relief Valve	1	EA	\$ 20,000.00	\$ 20,000.00



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OWNER					
City of Hallandale Beach					
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ITEM No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE FURNISH & INSTALL	ESTIMATED AMOUNT
3.23	Control Structure (Including connection to existing culvert, guardrail, sidewalk, fences, and concrete revetment)	1	LS	\$ 335,895.18	\$ 335,895.18
3.24	Control Structure Electrical & Standby Power System	1	LS	12,050.00	\$ 12,050.00
3.25	Monitoring Wells	4	EA	\$ 11,111.00	\$ 44,444.00
3.26	Drainage Wells (Drilling Depth up to 128', BGS)	17	EA	\$ 37,500.00	\$ 637,500.00
3.27	Well Drilling and Casing Depth Exceeding 128'	850	VF	\$ 175.00	\$ 148,750.00
3.28	Adjust Sewer Laterals within ROW	40	EA	\$ 745.00	\$ 29,800.00
3.29	4" Concrete Sidewalk	29	SY	\$ 32.00	\$ 928.00
3.30	Adjust Potable Water Services within ROW	40	EA	\$ 125.00	\$ 5,000.00
3.31	4" DIP Water Main	27	LF	\$ 68.00	\$ 1,836.00
3.32	6" DIP Water Main	158	LF	\$ 85.00	\$ 13,430.00
3.33	10" DIP Water Main	201	LF	\$ 100.00	\$ 20,100.00
3.33A	Replace 20 LF of 10" Gravity Sewer Main	3	EA	\$ 2,570.00	\$ 7,710.00
3.34	Desilting/Water Jetting Existing Drainage Pipes	3,470	LF	\$ 3.00	\$ 10,410.00
				PGD SUBTOTAL	\$ 4,690,887.88
IV. PUMP STATION					
4.01	Pump Station Site Work	1	LS	\$ 22,063.20	\$ 22,063.20
4.02	Pump Station Structural Work	1	LS	\$ 1,050,703.70	\$ 1,050,703.70
4.03	Pump Station Mechanical Work	1	LS	\$ 550,000.00	\$ 550,000.00
4.04	Pump Station Raker Assembly (Funiss & Install)	1	LS	\$ 650,000.00	\$ 650,000.00
4.05	Pump Station Electrical Work	1	LS	\$ 289,727.64	\$ 289,727.64
4.06	Pump Station Instrumentation Work	1	LS	\$ 340,289.00	\$ 340,289.00
4.07	Pump Station Standby Power System (Including 3M wrap)	1	LS	\$ 647,004.00	\$ 647,004.00
				PUMP STATION SUBTOTAL	\$ 3,549,787.54
V. PAVEMENT MARKINGS AND SIGNAGE					
5.01	Pavement Markings and Signage	1	LS	\$ 5,000.00	\$ 5,000.00
				PMS SUBTOTAL	\$ 5,000.00
VI. LANDSCAPING					
6.01	Existing Tree Protection & Disposition	1	LS	\$ 7,380.00	\$ 7,380.00
6.02	Planting & Sod Restoration	1	LS	\$ 88,905.56	\$ 88,905.56
6.03	Irrigation System	1	LS	\$ 21,323.00	\$ 21,323.00
				LANDSCAPING SUBTOTAL	\$ 117,608.56
				TRADES SUBTOTAL =	\$ 8,457,262.64
				GENERAL ITEMS SUBTOTAL =	\$ 821,153.64
				FEMA PROJECT TOTAL =	\$ 9,278,416.28
VII. FPL					
8.01	FPL Allowance	1	AL	\$ 30,000.00	\$ 30,000.00
				FPL Allowance SUBTOTAL	\$ 30,000.00
IX. Owner's Contingency					
9.01	Unforeseen conditions (5%)	1	AL	\$ 422,863.13	\$ 422,863.13
				Owner's Contingency SUBTOTAL	\$ 422,863.13



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PROJECT

*** GRAND TOTAL** \$ 9,731,279.41