

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

To: Jack Osterholt, Director  
SPEED, Business Development Division

From: Leo Vargas, OCI Supervisor  
Procurement Section.

Department: Miami-Dade Water and Sewer Department

Contract Title: RPQ P0078 Perrine-Cutler Ridge Water & Sewer Improvements, Water Main, Gravity Sewer and Force Main for Basin C

Contract No.: CICC7360-0/08

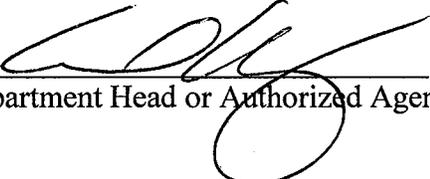
Estimate Amount: \$2,930,110.84 [\$2,930,110.84 + \$503,554.41 Contingency and Dedicated Allowances and Off-Duty Police Officers]

Account Funds:

<b>RECOMMENDATION</b>
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Analysis for Recommendation

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	Perrine-Cutler Ridge Water & Sewer Improvements, Water Main, Gravity Sewer and Force Main for Basin C (See Attached)	\$2,930,110.84	83%	
2.	Dedicated Allowance	\$87,903.33	3%	
3.	Contingency Allowance	\$293,011.08	10%	
4.	Off-Duty Police	\$122,640.00	4%	
5.	TOTAL	\$3,433,665.25	100%	

  
 Department Head or Authorized Agent

**DEPARTMENT INPUT**  
**CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Check applicable Ordinance(s):  90-143 Responsible Wage and Benefits  03-237 (formerly 03-1) Community Workforce Program

**PROJECT INFORMATION** See attachment

**Contract/Project/\*Work Order No.:** P0078

\*Reference corresponding project number when submitting a work order

**Contract/Project Title:** Perrine-Cutler Ridge Water & Sewer Improvements, Water Main, Gravity Sewer and Forcemain for Basin C.

**Description/Scope of Work:** See Attached

**Estimated Cost:** \$2,930,110 **Funding Source:** Grant funds

**Location of Project** (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
Eureka Dr to the South, State Road 5/US 1 SB to the West and SW 97<sup>th</sup> Ave to the East.

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP)** See attachment

Engineer/Department or Agency's estimated required workforce for Project  Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
N/A		
N/A		
N/A		

Comments: \_\_\_\_\_

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE)** See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
0	\$	0%	
0	\$	0%	
0	\$	0%	

**RECOMMENDATION**

**Set-Aside:** Level 1  Level 2  Level 3  Trade Set-Aside  Sub-Contractor Goal  Workforce Goal  No Measure

**Basis for Recommendation:** The project needs to be bid under the 7360 contract due to USEPA Grant

**Date submitted to DBD:** 05/11/2012

**Contact Person:** Jose Vilaboy, Telephone : 786-552-8056

**SPECIFICATIONS**  
**FOR**  
**PERRINE - CUTLER RIDGE WATER AND SEWER IMPROVEMENTS**  
**WATER MAIN, GRAVITY SEWER, FORCEMAIN AND SEWAGE PUMP STATION FOR**  
**BASIN C**

**ER NO. W016449 & S048508, PCTS NO. 01178, RPQ NO. P0078**

**1.00 SCOPE OF WORK**

The work as described below consists of the installation of a water distribution system and sanitary sewer to serve the area known and identified as "Perrine - Cutler-Ridge" (Basin C).

The project consists of installing a new gravity sewer system and a water distribution system, together with all appurtenances for these facilities to serve the area known and identified as "Perrine - Cutler-Ridge" (Basin C). The project area covers approximately 60 acres, limited by Wayne Avenue to the north, Eureka Drive to the south, State Road 5/US 1 SB to the west and SW 97<sup>th</sup> Avenue to the east. The project includes, but shall not be limited to, furnishing and installing 1,326 LF of 12" water mains, 29 LF of 16" water mains, 2 gate valves, 1,570 LF of 12" force mains, 5,663 LF of 8" gravity sewer, 3,687 LF of 12" gravity sewer, 39 manholes, 95 sewer laterals to serve adjacent properties; making connection to existing mains with tapping sleeves and valves; air release and flushing valve outlets assemblies; furnishing and installing castings; temporary and permanent paving repairs; sidewalk restoration; curb and gutter restoration; cleaning, testing and disinfecting the mains; furnishing additional suitable backfill materials; traffic control; maintenance of traffic and all other miscellaneous and appurtenant items of work for a complete, functional and satisfactory installation of the proposed water and sewer lines.

The project also consists of furnishing all materials, labor and equipment necessary for building, testing, starting-up and adjusting a submersible sewage pump station for Perrine Cutler Ridge Basin C, including but not limited to, demolition and modification to existing site conditions; furnishing and installing a wet well structure; furnishing and installing a valve vault, and installing valves, fittings, and pipes, furnishing and installing the proposed 47 horsepower submersible pumps and related equipment; furnishing and installing PVC sump pump discharge pipes; furnishing and installing sump pump; furnishing and installing the proposed wet well top slab; furnishing and installing access hatches; furnishing and installing the control panel, furnishing and installing an RTU unit; furnishing and installing main disconnect switch, meter box, furnish and install new backflow preventer with hose bibb, motor connection box; constructing above ground concrete slab; furnishing and installing the proposed electrical and control system inclusive of the necessary electrical wiring, conduits; wiring to control panel; furnishing and installing a 180 KW generator with sub-base fuel tank; furnish and installing temporary emergency connection. The project also includes traffic control; replacing grass, sidewalk, pavement or driveway damaged by construction; construction of fence and access gate; cutting, patching and restoration of existing surfaces to match surrounding areas; sodding to be restored as required; electrical work; mechanical work and other appurtenant and miscellaneous items and work for a complete, satisfactory and functional installation.

Also includes removal of existing pumps, valves, and fittings; demolition of the existing pump station structures; removal of existing power/control panel; removal of existing electrical service meter and main disconnect; removal, transport, salvage, and legal disposal of demolition material and equipment.

It is the intent of the Department to obtain a complete functional, and satisfactory installation under this contract, and any items of labor, equipment or materials which may reasonably be assumed as necessary to accomplish this end shall be supplied whether or not they are specifically shown on the plans or stated herein.

The project is located in the Village of Palmetto Bay and unincorporated Miami-Dade County, Florida 33157, in the area known and identified as "Perrine - Cutler-Ridge" (Basin C), in Section 32, Township 55-S, Range 40-E, Miami, Florida. The new pump station will be installed at 9885 SW 184th Street (Eureka Drive), Village of Palmetto Bay, FL, 33157.

The Contractor is also alerted that various "Standards" are used herein for reference and criteria, and that he should obtain copies for his general use and protection. Abbreviated titles are used throughout these Specifications and although most of them are widely known, their complete titles are given below in order to avoid any misunderstanding.

AA	Aluminum Association
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AI	Asphalt Institute
AISI	American Iron and Steel Institute
ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
SFBC	South Florida Building Code
FDOT	Florida Department of Transportation

The above list shall not be considered complete, as there are other "Standards" used; however, in most cases complete titles have been given.

Wherever, "Standards" are indicated herein for reference, the referenced portion shall have the same force and effect as if it were included herein in its entirety, latest revision if date of publication not shown.

# CONSTRUCTION COST ESTIMATE

5/4/2012

Perrine - Cutler Ridge Water and Sewer Improvements  
 Proposed Water and Sewer Systems - BASIN C  
 OCI- Project No. E05-WASD-12



A&P CONSULTING TRANSPORTATION ENGINEERS  
 10305 NW 41ST STREET - SUITE 115 - MIAMI, FL 33178  
 (305)592-7283 / FAX(305)593-1594

www.apcte.com

ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL
<b>SEWAGE COLLECTION SYSTEM, ER: S048508</b>					
S-1	Sell and Deliver 8" D.I. Pipe & Fittings (San. Sewer)	LF	\$32.25	1,395.00	\$44,991.54
S-2	Install 8" D.I. Pipe & Fittings (8-10' Depth) (San. Sewer)	LF	\$42.27	465.00	\$19,656.95
S-3	Install 8" D.I. Pipe & Fittings (10-12' Depth) (San. Sewer)	LF	\$49.35	290.00	\$14,310.34
S-4	Install 8" D.I. Pipe & Fittings (12-14' Depth) (San. Sewer)	LF	\$50.34	320.00	\$16,107.52
S-5	Install 8" D.I. Pipe & Fittings (14-16' Depth) (San. Sewer)	LF	\$53.15	320.00	\$17,008.64
S-6	Sell and Deliver 12" D.I. Pipe & Fittings (San. Sewer)	LF	\$52.68	2,112.00	\$111,258.05
S-7	Install 12" D.I. Pipe & Fittings (12-14' Depth) (San. Sewer)	LF	\$48.28	247.00	\$11,924.91
S-8	Install 12" D.I. Pipe & Fittings (14-16' Depth) (San. Sewer)	LF	\$50.49	798.00	\$40,291.02
S-9	Install 12" D.I. Pipe & Fittings (16-18' Depth) (San. Sewer)	LF	\$52.91	1,067.00	\$56,454.97
S-10	Sell and Deliver 8" PVC Pipe & Fittings (San. Sewer)	LF	\$23.82	4,268.00	\$101,642.42
S-11	Install 8" PVC Pipe & Fittings (0-6' Depth) (San. Sewer)	LF	\$34.62	857.00	\$29,666.77
S-12	Install 8" PVC Pipe & Fittings (6-8' Depth) (San. Sewer)	LF	\$35.21	2,267.00	\$79,823.34
S-13	Install 8" PVC Pipe & Fittings (8-10' Depth) (San. Sewer)	LF	\$33.74	824.00	\$27,799.29
S-14	Install 8" PVC Pipe & Fittings (10-12' Depth) (San. Sewer)	LF	\$38.79	320.00	\$12,411.52
S-15	Sell and Deliver 12" PVC Pipe & Fittings (San. Sewer)	LF	\$44.24	1,575.00	\$69,681.15
S-16	Install 12" PVC Pipe & Fittings (0-6' Depth) (San. Sewer)	LF	\$27.87	270.00	\$7,525.98
S-17	Install 12" PVC Pipe & Fittings (6-8' Depth) (San. Sewer)	LF	\$30.36	467.00	\$14,178.12
S-18	Install 12" PVC Pipe & Fittings (8-10' Depth) (San. Sewer)	LF	\$32.12	807.00	\$25,920.84
S-19	Install 12" PVC Pipe & Fittings (10-12' Depth) (San. Sewer)	LF	\$35.70	31.00	\$1,106.55
S-20	Sell and Deliver 8"x6" DIP Tee	EA	\$367.70	8.00	\$2,941.58
S-21	Install 8"x6" DIP Tee	EA	\$634.29	8.00	\$5,074.34
S-22	Sell and Deliver 12"x6" DIP Tee	EA	\$536.79	5.00	\$2,683.95
S-23	Install 12"x6" DIP Tee	EA	\$634.29	5.00	\$3,171.47
S-24	Sell and Deliver 8"x6" PVC Tee	EA	\$308.29	12.00	\$3,699.43
S-25	Install 8"x6" PVC Tee	EA	\$385.20	12.00	\$4,622.38
S-26	Sell and Deliver 12"x6" PVC Tee	EA	\$477.38	8.00	\$3,819.02
S-27	Install 12"x6" PVC Tee	EA	\$385.20	8.00	\$3,081.58
S-28	Sell and Deliver 8"x6" DIP Wye	EA	\$405.01	5.00	\$2,025.05
S-29	Install 8"x6" DIP Wye	EA	\$584.76	5.00	\$2,923.80
S-30	Sell and Deliver 8"x6" PVC Wye	EA	\$265.98	48.00	\$12,767.04
S-31	Install 8"x6" PVC Wye	EA	\$288.90	48.00	\$13,867.39
S-32	Sell and Deliver 12"x6" PVC Wye	EA	\$457.58	9.00	\$4,118.20
S-33	Install 12"x6" PVC Wye	EA	\$352.20	9.00	\$3,169.78
S-34	Sell and Deliver Utility Structure (Std.) (Precast) (0-6' Depth)	EA	\$1,513.64	10.00	\$15,136.44
S-35	Install Utility Structure (Std.) (Precast) (0-6' Depth)	EA	\$1,384.54	10.00	\$13,845.37
S-36	Sell and Deliver Utility Structure (Std.) (Precast) (6-8' Depth)	EA	\$1,337.13	11.00	\$14,708.40
S-37	Install Utility Structure (Std.) (Precast) (6-8' Depth)	EA	\$1,851.83	11.00	\$20,370.11
S-38	Sell and Deliver Utility Structure (Std.) (Precast) (8-10' Depth)	EA	\$1,930.74	5.00	\$9,653.71
S-39	Install Utility Structure (Std.) (Precast) (8-10' Depth)	EA	\$2,307.57	5.00	\$11,537.85
S-40	Sell and Deliver Utility Structure (Std.) (Precast) (10-12' Depth)	EA	\$2,090.33	2.00	\$4,180.66

# CONSTRUCTION COST ESTIMATE

5/4/2012

Perrine - Cutler Ridge Water and Sewer Improvements  
Proposed Water and Sewer Systems - BASIN C  
OCI- Project No. E05-WASD-12



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ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL
<b>GENERAL ITEMS</b>					
G-1	Limerock Base (Type I)	SY	\$12.98	5,436	\$70,559.28
G-2	Asphaltic Concrete Surface Course (Type I)	SY	\$15.24	5,436	\$82,817.46
G-3	Limerock Base (Type II)	SY	\$18.06	1,613	\$29,134.01
G-4	Asphaltic Concrete Surface Course (Type II)	SY	\$22.56	1,758	\$39,662.24
G-5	Asphaltic Concrete Surface Course (Type V) (Contingent Item)	SY	\$6.31	38,427	\$242,628.08
G-6	Milling (1" nominal) (Contingent Item)	SY	\$1.83	38,427	\$70,167.70
G-7	Pavement Markings Restoration (Contingent Item)	AS	\$5,648.50	1	\$5,648.50
G-8	Sodding Restoration (Contingent Item)	SY	\$4.00	1,553	\$6,218.21
G-9	Concrete Curb and Gutter Restoration (Contingent Item)	LF	\$18.66	340	\$6,343.04
G-10	Concrete Sidewalk & Driveways Restoration (Contingent Item)	SF	\$3.54	7,364	\$26,083.29
G-11	Pedestrian Curb Ramp Restoration (Contingent Item)	EA	\$746.77	2	\$1,493.54
G-12	Curb Ramp Detectable Warning Surface (Contingent Item)	SF	\$15.80	16	\$252.74
G-13	Inductive Loop Detectors (Contingent Item)	EA	\$903.91	12	\$10,846.97
G-14	Polyethylene Encasement (Contingent Item)	LF	\$0.55	5,348	\$2,941.40
G-15	Trench Overcut (Contingent Item)	LF	\$0.81	2,500	\$2,035.00
G-16	Sheeting and Shoring (Contingent Item)	SF	\$1.13	1,250	\$1,416.25
G-17	Flowable Fill (Contingent Item)	CY	\$76.16	10	\$761.64
G-18	Maintenance of Traffic [5% of Water and Sewer]	LS		1	\$103,003.12
G-19	Mobilization (8%)	LS		1	\$217,045.25
G-20	Subtotal of Items G-1 through G-19	LS		1	\$84,849.84
<b>G-21</b>	<b>Sub Total Estimated Construction Cost</b>				<b>\$2,930,110.84</b>
G-22	Dedicated Allowance (3%) for permits, fees, impact fees, and ins				\$87,903.33
G-23	Contingency Allowance (10%)				\$293,011.08
G-24	Off-Duty Policemen				\$122,640.00
<b>G-25</b>	<b>GRAND TOTAL</b>				<b>\$3,433,665.25</b>

# CONSTRUCTION COST ESTIMATE

5/4/2012

Perrine - Cutler Ridge Water and Sewer Improvements  
 Proposed Water and Sewer Systems - BASIN C  
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ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL
S-41	Install Utility Structure (Std.)(Precast)(10-12' Depth)	EA	\$2,538.33	2.00	\$5,076.65
S-42	Sell and Deliver Utility Structure (Std.) (Precast) (12-14' Depth)	EA	\$2,721.41	2.00	\$5,442.82
S-43	Install Utility Structure (Std.) (Precast) (12-14' Depth)	EA	\$2,769.09	2.00	\$5,538.17
S-44	Sell and Deliver Utility Structure (Std.) (Precast) (14-16' Depth)	EA	\$2,874.95	5.00	\$14,374.75
S-45	Install Utility Structure (Std.) (Precast) (14-16' Depth)	EA	\$3,115.22	5.00	\$15,576.11
S-46	Sell and Deliver Utility Structure (Std.) (Precast) (16-18' Depth)	EA	\$3,212.28	4.00	\$12,849.10
S-47	Install Utility Structure (Std.) (Precast) (16-18' Depth)	EA	\$3,465.86	4.00	\$13,863.43
S-48	Sell and Deliver 6" DIP Laterals & Fittings	LF	\$55.17	356.00	\$19,638.74
S-49	Install 6" DIP Laterals & Fittings	LF	\$37.90	356.00	\$13,490.62
S-50	Sell and Deliver 6" PVC Laterals & Fittings	LF	\$38.37	1,895.00	\$72,707.36
S-51	Install 6" PVC Laterals & Fittings	LF	\$34.19	1,895.00	\$64,786.26
S-52	Make connection to exist. Manhole	EA	\$2,302.72	1.00	\$2,302.72
S-53	Sell and Deliver 12" D.I. Pipe (Force Main)	LF	\$56.78	1,570.00	\$89,147.74
S-54	Install 12" D.I. Pipe (Force Main)	LF	\$32.12	1,570.00	\$50,428.40
S-55	For furnishing and installing DIP plugs (8" & 10")	EA	\$1,657.05	3.00	\$4,971.15
S-56	Furnishing and Installing 54"x12" M.J. Tapping Saddle & Tapping Valve complete	EA	\$37,950.00	1.00	\$37,950.00
S-57	Construct Automatic Air Release Valve assembly complete	EA	\$3,074.06	5.00	\$15,370.30
S-58	Furnish and Install 12" Plug Valves	EA	\$4,621.61	1.00	\$4,621.61
S-59	Sell and Deliver Materials and Equipment for Pump Station	LS	\$380,000.00	1.00	\$380,000.00
S-60	Install Materials and Equipment for Pump Station	LS	\$170,000.00	1.00	\$170,000.00
S-61	Subtotal of Items S-1 through S-60				\$1,857,293.38
	<b>Sub-Total Sewage Collection System</b>				<b>\$1,857,293.38</b>

# CONSTRUCTION COST ESTIMATE

Perrine - Cutler Ridge Water and Sewer Improvements  
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ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL
<b>WATER DISTRIBUTION SYSTEM, ER: W-016449</b>					
W-1	Sell and Deliver 6" D.I. Pipe, Fittings & Valves	LF	\$78.01	51.00	\$3,978.61
W-2	Install 6" D.I. Pipe, Fittings & Valves	LF	\$22.86	51.00	\$1,165.76
W-3	Sell and Deliver 12" D.I. Pipe, Fittings & Valves	LF	\$42.38	1326.00	\$56,199.86
W-4	Install 12" D.I. Pipe, Fittings & Valves	LF	\$29.11	1326.00	\$38,594.56
W-5	Sell and Deliver 16" D.I. Pipe & Fittings	LF	\$41.80	29.00	\$1,212.20
W-6	Install 16" D.I. Pipe & Fittings	LF	\$37.40	29.00	\$1,084.60
W-7	Make cut-in connection to existing water mains w/ 12" M.J. Solid Sleeve	EA	\$3,300.00	3.00	\$9,900.00
W-8	Make cut-in connection to existing water mains w/ 16" M.J. Solid Sleeve	EA	\$3,850.00	2.00	\$7,700.00
W-9	Construct Air Release Valve assembly complete.	EA	\$811.66	6.00	\$4,869.94
W-10	Sell and Deliver 12" M.J. Tapping Sleeve & M.J. Tapping Valve complete	EA	\$3,734.53	2.00	\$7,469.07
W-11	Making connection to 12" WM, including installing 12" M.J. Tapping Sleeve & M.J. Tapping Valve complete	EA	\$768.69	2.00	\$1,537.38
W-12	Sell and Deliver 12"x6" M.J. Tapping Sleeve & M.J. Tapping Valve complete	EA	\$1,584.97	1.00	\$1,584.97
W-13	Making connection to 12" WM, including installing 12"x6" M.J. Tapping Sleeve & M.J. Tapping Valve complete	EA	\$708.59	1.00	\$708.59
W-14	Sell and Deliver Fire Hydrants	EA	\$1,662.10	4.00	\$6,648.40
W-15	Install Fire Hydrants	EA	\$708.59	4.00	\$2,834.35
W-16	Furnish & Install Water Service (2" Single Long & Short)	EA	\$2,467.65	3.00	\$7,402.96
W-17	Furnish & Install Water Service (1" Single Long & Short)	EA	\$868.49	1.00	\$868.49
W-18	Subtotal of Items W-1 through W-17				\$153,759.74
<b>Sub-Total Water Distribution System</b>					<b>\$153,759.74</b>