

**PORT ST. LUCIE CITY COUNCIL
AGENDA ITEM REQUEST**

COUNCIL ITEM 7G
DATE 10/8/12

Meeting Date: October 8, 2012

Public Hearing Ordinance Resolution Motion

Item: E-Bid #20110046 CO #1 - Eastern Watershed Improvement Project (EWIP) Tiffany Intake Channel and Ancillary Work

Recommended Action:

- 1) Approval of Change Order #1 to Melvin Bush Construction, Inc. for the final true-up for the construction of the Eastern Watershed Improvement Project (EWIP) Tiffany Intake Channel and Ancillary Work in the amount of \$198.37 and an additional 56 calendar days. The new Contract amount is \$1,392,578.37 and the Contract period is 206 calendar days.

Exhibits: Department memo attached yes no

Summary Explanation/Background Information: The Tiffany Intake Channel and Ancillary Work is one of the Eastern Watershed Improvement Projects (EWIP). The final true-up involves quantity adjustments to the Tiffany Channel Widening portion of the project to include sediment barrier, excavation, embankment, piping, paving, concrete mats, signing, utility adjustments, sod and irrigation repair for a net credit of \$63,837.10. Additional items were added to address revisions to extend the piping outfalls which connected to the channel in the amount of \$12,948.05. Adjustment of pay items for the Tiffany Pump Station include sediment barriers, soil tracking device, channel grading, concrete driveway, swale liner, paving, signing, utility adjustments, vegetation removal, sod and irrigation repair in the amount of a total credit of \$32,953.50. Additional items were added to the contract to address deficiencies discovered at the pump station that were not identified during scoping inspections and the total cost for these items are \$79,523.71. Adjustment of pay item quantities for the Village Green Culvert include sediment barrier, excavation, piping, swale liner, paving, striping, utility adjustments, sod and irrigation totaling \$8,797.21. Other additional pay items were for Construction Engineer Inspector (CEI) overtime costs that will be charged to the Contractor for a net credit to the contract in the amount of \$4,280.00. This Change Order also includes fifty six (56) additional calendar days for weather impacts, by-pass pumps at the pumping station and additional work involving drainage pipes on the Tiffany Channel and utility adjustments at Village Green Drive. The net total for all the adjustments and additions is \$198.37. The Engineering Department ~~has~~ requests approval of Change Order #1.

Purchase is not a replacement Purchase is budgeted.
Award Amount: **\$198.37**

Department requests expenditure from the following:

Fund	403	EWIP Fund
Cost Center	4126	Street & Drainage
Object Code	Various	Various
Project	00000	n/a

RECEIVED

Director of OMB concurs with award: DRP City Manager concurs with award: SEP 26 2012

Department requests 0 minutes to make a presentation.

City Manager's Office

Submitted by: James Angstadt for Patricia Roebing Date Submitted: 9/26/2012

Title: Assistant City Engineer

CHANGE ORDER

No.: Change Order # 1 - Final True-up

PROJECT: EWIP Tiffany Lakes Intake Channel Widening & Ancillary Project. DATE OF ISSUANCE: _____

OWNER: City of Port St. Lucie
121 SW Port St. Lucie Boulevard
Port St. Lucie, Florida 34984

CONTRACTOR: Melvin Bush Construction, Inc. OWNER's Project No.: 20110046
2748 SW Casella Street
Port St. Lucie, Florida 34953-2762 ENGINEER: CAPTEC Engineering Inc.

CONTRACT FOR: Contract No. 2011046 - EWIP Tiffany Intake Channel Widening & Ancillary Project. ENGINEER's Project # 1357.20

You are directed to make the following changes in the Contract Documents.

Description: City of Port St. Lucie Contract No. 20110046
Purchase Order No.: 20112643-00

Purpose of Change Order:

- 1) Create a new pay item and unit cost to provide compensation to the contractor to furnish and install 24" HDPE drainage pipes, mitered end sections, rubble rip rap and ballast rock, swale liner reset, concrete wedges, excavate north basin and replace several corroded structural steel members.
- 2) Adjust estimated contract quantities to represent actual final quantities constructed and accepted.
- 3) Delete the following existing contract pay items that were not required: Irrigation Allowance at Village Green and Grand Drive, subsoil excavation, Swale liner, 6" PVC pipe and 8" 45 degree Bends, sediment barrier, soil tracking device and repair sand cement rip rap.
- 4) Assessment for CEI time charges for weekend and holiday work in accordance with Article 3.15 of the General Specifications.
- 5) Extend the Contract Time by forty-one (41) days for delays caused to the contractor for by-pass pump delivery, heavy rain weather impacts, and additional work: fourteen (14) days for additional excavation in the basin to the north of the pump house and one (1) day for additional work in the existing outfall dissipater structure for a total of fifty-six (56) days.

All other provisions of the Original Contract / Addendum remain in full force and effect.

Contract Time:

All work shall be completed by February 9, 2012 the adjusted Final Contract Completion Date.

Attachments: Exhibit B

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIME:
Original Contract Price <u>\$1,392,380.00</u>	Original Contract Time <u>150</u> date
Previous Change Orders <u>\$0.00</u>	Net change from previous Change Orders <u>0</u> days
Contract Price prior to this Change Order <u>\$1,392,380.00</u>	Contract Time prior to this Change Order <u>150</u> date
Increase this Change Order <u>\$198.37</u>	Net Increase of this Change Order <u>56</u> days
Contract Price with all approved Change Orders <u>\$1,392,578.37</u>	Contract Time with all approved Change Orders <u>206</u> date

RECOMMENDED:

APPROVED:

APPROVED:

By _____
Engineer

by _____
Owner

by _____
Contractor



"A City for All Ages"

CITY OF PORT ST. LUCIE

Public Works Department

Accredited Agency – American Public Works Association

MEMORANDUM

TO: CHERYL SHANABERGER –DEPUTY DIRECTOR OF OMB

FROM: JAMES E. ANGSTADT, P.E., ACTING ASSISTANT CITY ENGINEER **JEA**

DATE: SEPTEMBER 25, 2012

RE: EASTERN WATERSHED IMPROVEMENT PROJECT
TIFFANY INTAKE CHANNEL STORMWATER RETROFIT PROJECT
MELVIN BUSH CONSTRUCTION, INC.,
CONTRACT NO. 20110046, CHANGE ORDER NO. 1 – FINAL TRUE-UP

Attached please find a cover letter, a quantity spreadsheet, an overtime spreadsheet and a change order form for Change Order No. 1 (Final True-up) to Contract No. 20110046 with Melvin Bush Construction, Inc., for close out of the construction services for the Tiffany Intake Channel Stormwater Retrofit Project which is a part of the Eastern Watershed Improvement Project (EWIP). We are hereby requesting authorization by the City Council for the City Manager to execute the necessary change order as referenced above and as further described below.

Change Order No. 1 to the Tiffany Intake Channel Stormwater Retrofit Project contract with Melvin Bush Construction (Contract No. 20110046) involves the following:

Schedule 1 – Tiffany Channel Widening

- Adjustment of pay item quantities to reflect actual construction quantities. The quantities adjusted include sediment barrier, excavation, embankment, piping, paving, concrete mats, signing, utility adjustments, sod and irrigation repair. The total credit for these items is \$63,837.10.
- Additional items were added to the contract to address revisions to extend drainage piping outfalls which connected to the channel. These items were requested by staff to allow for ease in future maintenance of the channel. The added items include drainage pipe, mitered end sections, rip-rap, swale liner and ballast rock. The total cost for these items is \$12,948.05.

Schedule 2 – Tiffany Pump Station

- Adjustment of pay item quantities to reflect actual construction quantities. The quantities adjusted include sediment barriers, soil tracking device, channel grading, concrete driveway, swale liner, paving, signing, utility adjustments, vegetation removal, sod and irrigation repair. The total credit for these items is \$32,953.50.
- Additional items were added to the contract to address deficiencies discovered at the pump station which were not identified during scoping inspections. These items include steel replacement and a re-mobilization charge for the sand blasting and painting of a walkway in conjunction with the added steel item. Items were also added to dissipate the water from the pumps and to create a stilling pond to

reduce erosion and improve water quality downstream of the pump outfalls. These items include riprap, concrete wedges, excavation and as-builts plans. The total cost for these items is \$79,523.71.

Schedule 3 -- Village Green Culvert

- Adjustment of pay item quantities to reflect actual construction quantities. The quantities adjusted include sediment barrier, excavation, piping, swale liner, paving, striping, utility adjustments, sod and irrigation repair. The total cost for these items is \$8,797.21.

General Item

- Additional pay item for Construction Engineer Inspector (CEI) overtime costs. Due to the contractor's schedule, work activities were undertaken on selected holidays and on weekends which required oversight by the CEI Consultant. In accordance with the contract this time can be charged to the contractor. The credit for this item based on hours and contract rates was \$9,879.06, but the CEI consultant was able to absorb a portion of the costs in their contract, therefore staff has identified that \$4,280 should be charged to the contractor. The total credit for this item is \$4,280.

This change order will result in an overall net increase in the contract price of \$198.37 for a new contract total of \$1,392,578.37. This change order also involves adding 56 days to the contract due to delays beyond the contractor's control associated with weather impacts, by-pass pumps at the pump station and additional work involving drainage pipes on the Tiffany Channel and utility adjustments at Village Green Drive. The total contract time including this change order is 206 days. This contract is funded by account number 403-4126-Various-00000.

Please process this material and schedule Change Order No. 1 (Final True-up) for presentation at the next available City Council meeting for their consideration. Two (2) original signed Change Order forms will be forwarded to your office once they have been signed by the contractor. If additional documentation is needed, or if you have any questions, please do not hesitate to contact me. Thank you for your cooperation.

jea

c:

Patricia Roebing, P.E., City Engineer
Dave Pollard, Director of OMB
Sue Walsh, Manager Operations



May 23, 2012
1357.2

Mr. Steve Jungjohan
City of Port St. Lucie
900 SE Ogden Lane
Port St. Lucie, Florida 34983
772-370-8229

**RE: City of Port St. Lucie – Tiffany Intake Channel Widening and Ancillary Work
City of Port St. Lucie Contract Number: 20110046, Purchase Order # 20112643
CHANGE ORDER NO. 1 FINAL TRUE-UP (Revised)**

Dear Mr. Jungjohan:

Please find attached the Final True-up Change Order No. 1 for the above referenced Contract with the final net increase to the original Contract amount of \$198.37 and a fifty-six (56) day time extension for additional work, weather impacts, and delays that were beyond the contractor's control. .

The increased amount is the sum of the following changes to the Contract items of work.

- The addition of 24" HDPE pipe, mitered ends and rip rap to fill in two existing lateral ditches within the project limits to eliminate ongoing maintenance issues.
- The addition of #4 ballast rock to the downstream toe-in section of the ACM's at Grand and Village Green in lieu of the compacted fill as detailed.
- The extension of fiber optic conduit and the addition of another pull box to connect to the existing system.
- Additional sidewalk and sod were constructed at Village Green Drive.
- The removal and replacement of existing 10" and 12" AC water and force mains at Village Green Drive under the new drainage pipes.
- The removal and replacement of several structural steel components within the pump station that were discovered during sandblasting efforts, and the remobilization cost for sandblasting and painting of new members.
- The clearing and grubbing, excavation and placement of rubble rip rap, in a 250' x 250' area north of the pump station outfall.
- The adjustment of estimated plan quantities to actually constructed quantities required and approved in the field.
- The deletion of several irrigation allowances and a utility adjustment that was not required.
- CEI time charges for Weekend and Holiday work in accordance with Article 3.15 NIGHT, SATURDAY, SUNDAY, AND/OR HOLIDAY WORK; CITY RIGHT-OF-WAY.

Mr. Steve Jungjohan
May 23, 2012
Page Two

The 43 day time extension is due to delays beyond the contractor's control associated with the by-pass pumps, weather impacts, additional work with side lot pipes, concrete dissipater repairs, rip rap and excavation of the north basin and the utility relocation at Village Green Drive.

The breakdown on this Change Order is as follows:

Original Contract Amount:	\$ 1,392,380.00
Previous Change Orders	\$ 0.00
Adjusted Contract Amount	\$ 1,392,380.00
Changes this Change Order	\$ <u>198.37</u>
Total	\$ 1,392,578.37

The amount of this Change Order is \$198.37 with fifty-six (56) days added to the Contract Time. The adjusted Completion date is now February 9, 2012.

CAPTEC recommends approval of this Change Order and request the City's review and approval to proceed with processing. Please review the attached supporting documentation and advise if acceptable. Three (3) copies of this Change Order have been submitted to the contractor for signatures and will be forwarded to the City for further processing upon receipt by this office.

If you should have any questions, or require any additional information, please feel free to contact me.

Sincerely,

Gary L.S. Jones, P.E.
Director of Construction

CC: James Angstadt, P.E., File

P:\1300\1352.7 Tiffany Channel CEI\Construction\CO\CO 1 Steve 030812.doc

"EXHIBIT B"

Change Order No. 1 - FINAL TRUE-UP

Schedule 1 - Tiffany Channel Widening

9/25/2012

Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
GENERAL ITEMS							
Sediment Barrier	LF	2800.0	\$1.20	\$1.20	700	-2100.00	(\$2,520.00)
Subtotal Added Items							(\$2,520.00)

Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
ROADWAY AND DRAINAGE							
Regular Excavation	CY	29000.0	\$6.50	\$6.50	25807	-3193.00	(\$20,754.50)
Subsoil Excavation	CY	1000.0	\$6.50	\$6.50	0	-1000.00	(\$6,500.00)
Embankment	CY	500.0	\$5.00	\$5.00	3751	3251.00	\$16,255.00
Type B Stabilization	SY	185.0	\$6.50	\$6.50	191	6.00	\$39.00
Optional Base Group 6	SY	173.0	\$28.50	\$28.50	183	10.00	\$285.00
Superpave Asphalt Concrete	TN	13.2	\$220.00	\$220.00	18	4.80	\$1,056.00
Swale Liner	LF	300.0	\$12.00	\$12.00	0	-300.00	(\$3,600.00)
14" x 23" Elliptical Corrugated Pipe	LF	60.0	\$44.00	\$44.00	52	-8.00	(\$352.00)
Articulated Concrete Mat	SY	325.0	\$114.00	\$114.00	302.2	-22.80	(\$2,599.20)
24" HDPE	LF	0.0	\$0.00	\$47.55	161	161.00	\$7,655.55
24" HDPE Mitered End Section	EA	0.0	\$0.00	\$475.00	4	4.00	\$1,900.00
Rip Rap	TN	0.0	\$0.00	\$168.00	10	10.00	\$1,680.00
Swale Liner Reset	LF	0.0	\$0.00	\$10.00	70	70.00	\$700.00
# 4 Ballast Rock	TN	0.0	\$0.00	\$40.50	25	25.00	\$1,012.50
Subtotal Adjusted Items							(\$3,222.65)

Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
PLANTING & GRASSING							
Performance Turf	SY	20000.0	\$2.95	\$2.95	12848	-7152.00	(\$21,098.40)
Irrigation Repair Allowance	Allowance	1.0	\$20,000.00	\$20,000.00	0	-1.00	(\$20,000.00)
Subtotal Added Items							(\$41,098.40)

Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
SIGNING & PAVEMENT MARKING							
Single Post Sign	EA	4.0	\$421.00	\$421.00	4	0.00	\$0.00
Subtotal Added Items							\$0.00

Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
UTILITIES.							
6" PVC Water Main	LF	50.0	\$44.00	\$44.00	0	-50.00	(\$2,200.00)
8" 45 Elbow (DIP)	EA	4.0	\$462.00	\$462.00	0	-4.00	(\$1,848.00)
Subtotal Added Items							(\$4,048.00)

SUBTOTAL SCHEDULE 1 CHANGES							(\$50,889.05)
------------------------------------	--	--	--	--	--	--	----------------------

Schedule 3 Village Green Culvert

GENERAL

Sediment Barrier	LF	255.0	\$1.00	\$1.00	170	-85.00	(\$85.00)
Subtotal Added Items							(\$85.00)

ROADWAY & DRAINAGE

Subsoil Excavation	CY	1000.0	\$6.50	\$6.50	370	-630.00	(\$4,095.00)
Type B Stabilization	SY	200.0	\$6.50	\$6.50	155	-45.00	(\$292.50)
Optional Base	SY	187.0	\$28.00	\$28.00	149	-38.00	(\$1,064.00)
Swale Liner	LF	120.0	\$12.00	\$12.00	0	-120.00	(\$1,440.00)
Concrete Sidewalk 4" Thick	SY	40.0	\$32.00	\$32.00	130	90.00	\$2,880.00
Articulated Concrete Block	SY	150.0	\$114.00	\$114.00	142.2	-7.80	(\$889.20)
#4 Ballast Rock	TN	0.0	\$0.00	\$40.50	25	25.00	\$1,012.50
Subtotal Adjusted Items							(\$3,888.20)

PLANTING & GRASSING

Performance Turf (Sod) Bahia	SY	3500.0	\$3.00	\$3.00	3975	475.00	\$1,425.00
Irrigation Repair Allowance	LS	1.0	\$5,000.00	\$5,000.00	0	-1.00	(\$5,000.00)
Subtotal Added Items							(\$3,575.00)

SIGNING & PAVEMENT MARKING

6" Solid White (Thermoplastic)	LF	112.0	\$1.00	\$1.25	94	-18.00	(\$22.50)
4" Solid Yellow (Thermoplastic)	LF	244.0	\$1.00	\$1.25	224	-20.00	(\$25.00)
18" Solid Yellow (Thermoplastic)	LF	12.0	\$1.00	\$4.00	10	-2.00	(\$8.00)
Subtotal Added Items							(\$55.50)

UTILITIES

Utility Relocation Allowance	LS	1.0	\$10,000.00	\$10,000.00	2.640091	1.64	\$16,400.91
Subtotal Added Items							\$16,400.91

SUBTOTAL SCHEDULE 3 CHANGES

\$8,797.21

CEI - Weekend/Holiday Time Charges - Article 3.15 of General

Specifications	LS	0.0	1	(\$4,280.00)	1	1.00	(\$4,280.00)
----------------	----	-----	---	--------------	---	------	--------------

TOTAL CHANGES CO #1

\$198.37

5/22/2012

Tiffany Intake Channel

STAFF Weekday, Weekend & Holiday working hours

Date	Description	Gary		Gerrit		Rick Madden					
		Saturday	Sunday	Saturday	Sunday	Week Day	Week End	Holiday			
9/2/2011	Labor Day Friday					2					
9/16/2011	Pump Turn on					2					
9/20/2011	Pump Turn on					1					
10/3/2011	Pump Turn on					1					
10/7/2011	Pump Turn on					1.5					
10/10/2011	Pump Turn on					2					
10/22/2011					4						
10/29/2011		1.5				1.5					
11/11/2011	Veteran's Day			2.5		8					
11/16/2011	Pump Turn on					1					
12/10/2011		7			3.5	7					
12/27/2011	Christmas Holiday					8					
12/28/2011	Christmas Holiday			4		8					
12/29/2011	Christmas Holiday			4		8					
12/30/2011	Christmas Holiday			3		8					
1/15/2012	Martin Luther King Day			5							
Subtotal Hours		8.5	0	18.5	7.5	0	42	9.5	0	0	
Total Amount				\$9,879.06							
Total Hours		27			49.5		\$4,950.00	9.5			\$204.06
Rate		\$175.00		\$4,725.00			\$100.00	\$21.48			
Amount											

Note: CEI Weekend/Holiday Time charges for CAPTEC totaled \$9,675.00. All except for \$4,280.00 was covered in the CEI Contract. Contractor to pay the remaining balance.