

PORT ST. LUCIE CITY COUNCIL
AGENDA ITEM REQUEST

COUNCIL ITEM 13B
DATE 12/12/11

Meeting Date: December 12, 2011

Public Hearing Ordinance Resolution Motion

Item: #20070008, City Wide Culvert Replacements & Sidewalk Construction, **Amendment #21, Change Order #3**, Melvin Bush Construction, E-8 Canal Drainage Improvements, Natural Resources Conservation Service (NRCS), Watershed Protection Program Project, \$146,988 cost increase for necessary additional work and additional 30 days for project completion.

Recommended Action:

Approval of contract Change Order #3, Contract # 20070008, Amendment #21, with Melvin Bush Construction for E-8 Canal Drainage Improvements for additional work and materials to complete this project and an adjustment to quantities previously approved. The contract amount will increase by \$146,988.00 for a new total of \$1,600,352.92. Thirty (30) additional calendar days are requested for completion of project. Approval of contract change order document is also requested.

Vendor/Contractor has indicated that they do have a Drug-Free Workplace Program in place.

Exhibits: Department memo attached [x] yes [] no

Copy of the Amendment #21, **Change Order #3** document.
Copy of correspondence from Captec Engineering, Inc. with City.

Summary Explanation/Background Information:

Change Order #3 to Amendment #21 of the City's existing contract is for an increase in needed work and materials for an increase of \$146,988.00 for a new contract amount of \$1,600,352.92. The changes in the scope of work and materials include but are not limited to a change in 72" piping, FDOT type E inlet and conflict box modification. The number of days allowed for project completion is changed to 201 calendar days. This is a Natural Resources Conservation Service (NRCS) funded project.

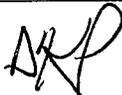
Purchase (x) is () is not a replacement

Purchase/project has been budgeted.

Total Expenditure
Including all change orders to date: \$1,600,352.92

Department requests expenditure from the following:

Fund	401	Stormwater Utility Fund
Cost Center	4126	Street & Drainage
Object Code	534000	Other contractual services
Project	Y1116	NRCS Grant-Emergency Watershed

Director of OMB concurs with award: 

City Manager concurs with award: 

RECEIVED

Submitted by: **Patricia Roebing**
Title: City Engineer

Date Submitted: 12/6/11
DEC 06 2011



"A City for All Ages"

CITY OF PORT ST. LUCIE
ENGINEERING DEPARTMENT
Accredited Agency – American Public Works Association



MEMORANDUM

To: Cheryl Shanaberger, OMB Deputy Director
Barbara Moquin, Contract Specialist

Thru: James E. Angstadt, P.E. *JEA*

From: Larry Nadeau, Project Manager *LN*

Date: December 6, 2011

Re: Melvin Bush Construction, Inc. Contract #20070008 Amendment #21, CO#3
E-8 Canal Repairs – Project #3 Kensington Street
Natural Resources Conservation Service EWP Program

Per our earlier discussions, attached please find a change order form, department memo, along with CAPTEC Engineering, Inc. support documentation for the Melvin Bush Construction, Inc. Change Order #3 through Contract #20070008 Amendment #21 for additional work and quantity adjustments associated with the E-8 Canal drainage improvements. The Engineering Department is requesting authorization by the City Council for the City Manager to execute the necessary change order as referenced above and further described below.

Highlights of this change order are as follows. Following the dewatering of the work area around the existing twin 72" aluminum pipes at Kensington Street, staff witnessed abnormally weak pipe ends. CAPTEC immediately undertook an evaluation of the pipe under the street. Using a hand held metal probe staff was able to pierce the inner pipe wall at the spring line of the pipe without much effort. It was also visually observed that the pipe was exhibiting fatigue and was out of round along several pipe sections at the spring line. CAPTEC concluded that the pipe was not structurally sound and should be replaced.

We promptly contacted the Natural Resources Conservation Service (NRCS) Area Engineer and State Conservation Engineer. We discussed the recommendation rendered by CAPTEC Engineering and City staff. They agreed that the likelihood of having a pipe failure was not in the best interest to both, NRCS and the City of Port St. Lucie, and to proceed with the replacement. NRCS agreed to financially participate in the pipe's replacement with a new 72" reinforced concrete pipe (RCP) along with two inlets excluding the pipe directly under the street, 44 linear feet out of the total 256 linear feet. Due to contract time constraints, a 30-day time extension was requested and approved by NRCS. The 30-day time extension will also be incorporated in this change order. The additional work remains within the \$2 million budget agreement we hold with NRCS.

The Engineering Department recommends approval of Change Order #3 for the installation new 72" RCP and associated inlets at Kensington Street NRCS Project #3 at a cost of \$146,988. Please schedule Change Order #3 for presentation at the next available City Council meeting for their review and consideration. Three (3) original signed change order forms will be forwarded to your office once they have been signed by the contractor and engineer. If you have any questions or require additional information, please do not hesitate to contact me.

/ln
Attachments

cc: Jesus Merejo – Utility Systems Director
Patricia Roebing, P.E. – City Engineer
Kimberly Graham, P.E. – Assistant City Engineer
Sue Walsh, Budget Specialist



December 6, 2011
801.5.4

Mr. Larry Nadeau
City of Port St. Lucie
900 SE Ogden Lane
Port St. Lucie, Florida 34984
(772) 871-5100
Fax: (772) 871-7397

**RE: City of Port St. Lucie –
Contract No. 20070008/Amendment No. 21 – E-8 Waterway NRCS EWP Repairs
PO # 20112657-00
Melvin Bush Construction, Inc.
ADDITIONAL COST & TIME EXTENSION – CHANGE ORDER NO. 3**

Dear Larry:

Melvin Bush Construction, the Prime Contractor on the E-8 Waterway NRCS EWP Repairs Contract and their subcontractor, Blazer Construction recently began work on Project #3 of the referenced Contract; E-8 Canal Repair @ Kensington Drive. They installed well points and removed the existing sand/cement headwalls exposing three to four feet of the existing 72" aluminum pipe culverts. The exposed ends of the pipe are exhibiting uncharacteristic advanced deterioration of the aluminum pipe primarily along the spring line of the pipe.

In the southern run of pipe, approximately midway within the run a 20' section of pipe has been compressed out of round by approximately 1 foot, compromising the structural integrity of the corrugated aluminum pipe. We also noted several joints with 3 to 4 inch gaps and bulging neoprene rubber gaskets.

In light of the noted condition of the existing pipe culverts crossing Kensington Drive, CAPTEC Engineering did not recommend continuing with the culvert extensions as planned. Instead, CAPTEC recommended removal and replacement of the existing 72" CAP with 72" RCP, then proceeding with the remaining planned improvements. Replacement of the CAP with RCP will bring the roadway crossing up to current City of Port St. Lucie standards as well as increase the flow capacity of this structure (due to the reduced roughness coefficient of the replacement pipe).

This change was discussed with NRCS Area Engineer and State Conservation Engineer who concurred with the decision to remove and replace as well as agreed to financially participating in the replacement cost, except for the portion of pipe immediately under the roadway (44 LF of 72" RCP).

Mr. Larry Nadeau
December 6, 2011
Page Two

Due to time constraints on the above Contract and the fact that the Contractor's City-wide Contract has established unit rates for this type of work, the Contractor was directed to proceed with this additional work immediately. Construction on the pipe replacement began early last week.

The above additional work associated with the pipe replacement at Kensington Drive will add approximately 20 additional days to the Contract duration. Additional time is also required for necessary work to correct damage observed on the recently completed B-15 project. This repair work will take 10 days to complete. Both issues relative to time have been discussed with NRCS who concur with our recommendation of a 30 day time extension for this work. This Change Order will incorporate a 30 time extension as well.

Please find attached Change Order No. 3 for the above referenced Contract. This Change Order will increase the Contract amount \$146,988.00 and will add 30 days to the Contract duration. The new Contract Completion Date will be January 31, 2012.

The breakdown on this Change Order is as follows:

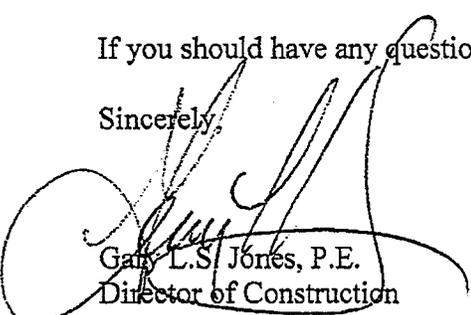
Original Contract Amount:	\$ 1,354,587.43	111 Days
Previous Change Order #1 & #2:	\$ 98,777.49	0 Days
Adjusted Contract Amount:	\$ 1,453,364.92	171 Days
Changes this Change Order:	\$ 146,988.00	30 Days
Total	\$ 1,600,352.92	201 Days

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

CAPTEC has reviewed the cost associated with the above work and has found them to be fair, reasonable and in line with terms of the Contract. Therefore, CAPTEC recommends approval of this Change Order and request the City's review and approval to proceed with processing. Please review the attached documentation and advise if acceptable. Three (3) copies of this Change Order will be submitted to the contractor for signatures if acceptable 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: File

P:\800\801.5.4\Construction\Larry CO #3 120611.doc

CHANGE ORDER

No.: Change Order # 3

PROJECT:	E-8 Waterway NRCS EWP Repairs	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. 2748 SW Casella Street Port St. Lucie, Florida 34953-2762	OWNER's Project No.:	<u>20070008/Amend #21</u>
		ENGINEER:	CAPTEC Engineering Inc.
CONTRACT FOR:	Contract #20070008 - Amendment #21 E-8 WW NRCS EWP Repairs	ENGINEER's Project #	<u>801.5.4</u>

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

Description: City of Port St. Lucie Contract No. 20070008 / Amendment #21
Purchase Order No.: 20112657-00

Purpose of Change Order:

- 1) Increase of \$146,988.00 for additional work required to replace 72" CAP with 72" RCP at Kensington Drive.
- 2) Extend the Contract Time by thirty (30) calendar days making January 31, 2012, the Contract completion date. The time extension is required to provide sufficient time to complete the installation of RCP at Kensington Drive and additional work on the B-15 Control Structure project
- 3) All other provisions of the Original Contract / Addendum remain in full force and effect.

Contract Time:

All work shall be completed by January 31, 2012 the Final Contract Completion Date.

Attachments: Exhibit B

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIME:
Original Contract Price <u>\$1,354,587.43</u>	Original Contract Time <u>111</u> date
Previous Change Orders 1 & 2 <u>\$98,777.49</u>	Net change from previous Change Orders 1 & 2 <u>60</u> days
Contract Price prior to this Change Order <u>\$1,453,364.92</u>	Contract Time prior to this Change Order <u>171</u> date
Increase this Change Order <u>\$146,988.00</u>	Net Increase of this Change Order <u>30</u> days
Contract Price with all approved Change Orders <u>\$1,600,352.92</u>	Contract Time with all approved Change Orders <u>201</u> date

RECOMMENDED:

By _____
Engineer

APPROVED:

by _____
Owner

APPROVED:

by _____
Contractor

"EXHIBIT B"

12/6/2011

Schedule 3 - E-8 Canal Repair @ Kensington Drive

Description	Unit	Original Quantity	Amount	Final Quantity	Change	Increase
Pipe Culvert (corrugated aluminum pipe, 72")	LF	40	\$301.00	0.0	-40.0	-\$12,040.00
72" RCP - Furnish and Install	LF	0	\$602.00	256.0	256.0	\$154,112.00
FDOT Type "E" Inlet (0 - 7 deep)	EA	0	\$1,858.00	2.0	2.0	\$3,716.00
Conflict Box Modification	EA	0	\$600.00	2.0	2.0	\$1,200.00
Subtotal						\$146,988.00
Net Change this Change Order						\$146,988.00

