

PORT ST. LUCIE CITY COUNCIL  
AGENDA ITEM REQUEST

COUNCIL ITEM 13F  
DATE 11/14/11

Meeting Date: November 14, 2011

Public Hearing \_\_\_\_\_ Ordinance \_\_\_\_\_ Resolution \_\_\_\_\_ Motion X

Item: #20070008, **Amendment #21, Change Order #2**, Melvin Bush Construction, E-8 Canal Drainage Improvements, Natural Resources Conservation Service (NRCS), Watershed Protection Program Project, \$72,227.49 contract increase with 60 additional calendar days for project completion.

Recommended Action:

Approval of Contract # 20070008, City Wide Culvert Replacements & Sidewalk Construction, Amendment #21, **Change Order #2** with Melvin Bush Construction for E-8 Canal Drainage Improvements for additional calendar days to complete this project and additional \$72,227.49 for increase in hourly rates/various equipment, concrete needed, ballast rock and drainage revisions. The contract amount total increased to \$1,453,364.92 with a new contract completion date of January 1, 2012, an increase of 60 calendar days. 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 #2** document.
- Copy of correspondence from Captec Engineering, Inc. with City.
- Copy of Contractor's correspondence requesting time extension.

**RECEIVED**  
NOV 07 2011

~~Assistant City Manager's Office~~

Summary Explanation/Background Information:

Change Order #2 to Amendment #21 of the City's existing contract is for an extension of time (60 calendar days) for the completion of the project due to inclement weather and unforeseen project conditions (unsuitable organic debris). The new completion date will be January 1, 2012. The new total of contract amount is \$1,453,364.92, an increase of \$72,227.49 for added equipment and operation rates, added materials needed and revised drainage work. This is a Natural Resources Conservation Service (NRCS)-funded project and NRCS has also extended their agreement through January 2, 2012.

Purchase (x) is ( ) is not a replacement

Purchase/project has been budgeted.

Additional expenditure: \$ 72,227.49  
 Previous contract Amendment Amount: \$1,381,137.43  
 New contract Amendment Amount: \$1,453,364.92

60 additional calendar days requested for contract/project completion.

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: ct

City Manager concurs with award: JAB

Submitted by: Patricia Roebing  
Title: City Engineer

Date Submitted: 11/7/11



"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: November 8, 2011

Re: Melvin Bush Construction, Inc. Contract #20070008 Amendment #21, CO#2  
E-8 Canal Repairs – Natural Resources Conservation Service EWP Program

Attached please find a change order form, recommendation letter, along with our CEI's support documentation for Change Order #2 to Contract #20070008 Amendment #21 with Melvin Bush Construction, Inc., 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 about and further described below.

On September 29, 2011 we requested a 60-day time extension from the Natural Resources Conservation Service (NRCS) for the ongoing E-8 Canal Repairs. NRCS granted the extension on October 10, 2011 thereby adjusting the completion date for the identified E-8 Canal repairs to January 2, 2012. The extension accommodates unforeseen project conditions that affect the original scope of work and timeframe earlier discussed with NRCS. The NRCS agreement and budget remains unchanged at \$2 million.

Highlighting the changes, the contractor encountered several pockets of unsuitable organic debris at the B-15 project which was excavated and removed from the project. This also required the import and placement of fill materials to achieve the necessary 3:1 slopes for future maintenance purposes along with additional equipment and crew expenses to undertake this extra work. The B-12 water control structure (WCS) required modifications to the emergency bypass pipe along with certain elevation changes to the spillway. The Import Drive project required additional Class I concrete at the headwalls. Also, both the B-12 WCS and Import Drive require toe anchor materials based on manufacturer's recommendation. The material recommended is a #4 ballast rock.

The contractor also experienced two significant rain events. Ongoing work had to be terminated to accommodate canal flows throughout the event and a few days after the event. Significant cleanup and rework of these sites has been required. Combining the above with the delay on the initial project start-up, both the City and NRCS staff support an extension of time to the contractor. The new contractor's end date will be January 1, 2012.

The Engineering Department recommends approval of Change Order #2 for a 60-day extension for a new contract end date of January 1, 2011 and for additional work expenses of \$72,227.49 incurred to date by the contractor. Please schedule Change Order #2 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

Attachment

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



November 8, 2011  
801.5.4

Mr. Larry Nadeau  
City of Port St. Lucie  
900 SE Ogden Lane  
Port St. Lucie, Florida 34983  
(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.  
TIME EXTENSION REQUEST & ADDITIONAL COST- CHANGE ORDER NO. 2**

Dear Mr. Nadeau:

Please find attached Change Order No. 2 for the above referenced Contract. This Change Order will increase both the Contract Time and the Contract amount. The Contractor has requested a 60 day Time extension due to unforeseen additional work at the E-8 Canal Repair at the B-15 Control Structure, several significant rain events, and delay with initial start-up. The Contractor also incurred additional cost associated with the added work at the E-8 Canal Repair at the B-15 Control Structure. In addition, there have been modifications to the E-8 Canal Repairs at B-12, Import Drive and Port St. Lucie Blvd. projects. The total cost of the additional work and modifications is \$72,227.49.

This Change Order provides for an increase in the Contract Amount of \$72,227.49 and changes the Contract Completion Date from November 3, 2011 to January 1, 2012.

The breakdown on this Change Order is as follows:

Original Contract Amount:	\$ 1,354,587.43	111 Days
Previous Change Order #1:	\$ 26,550.00	0 Days
Adjusted Contract Amount:	\$ 1,381,137.43	102 Days
Changes this Change Order:	\$ 72,227.49	60 Days
<b>Total</b>	<b>\$ 1,453,364.92</b>	<b>171 Days</b>

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

Mr. Larry Nadeau  
November 8, 2011  
Page Two

A summary of the additional cost is as follows:

Increases at Schedule 7 (B-15) were required to cover additional manpower and equipment cost associated with removal and replacement of unsuitable material with clean fill.

Increases at Schedule 2 (Import Drive) were required due to quantity increase in the Class I Concrete headwalls. Additionally, the material utilized for the toe anchor on the ACMs was changed from soil to #4 ballast rock after issues were noted at other locations.

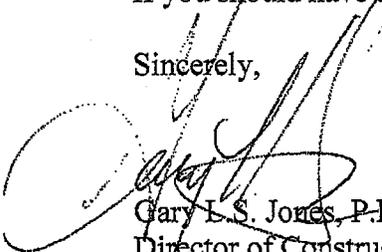
Increases at Schedule 5 (B-12) were required due to cost associated with removing and replacing the existing 24" pipe, additional fill for modifications to the ACM placement and a change in the ACM toe anchor material to #4 ballast rock.

Increases at Schedule 9 (Port St. Lucie Blvd.) were required due to modifications to the plans to work around a limited amount of right of way for connecting drainage facilities from under PSL Blvd. and from private property parcel to eliminate ongoing maintenance issues.

CAPTEC has reviewed the cost summarized above 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

**CHANGE ORDER**

No.: Change Order # 2

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 - Admendment #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) Correct the number of days on documents to reflect 111 calendar days were allowed for project completion date of November 3, 2011 on original contract and Change Order # 1 document.
- 2) Extend the Contract Time by sixty (60) calendar days making January 1, 2012, the Contract completion date. The time extension is required to provide sufficient time to complete all eight projects after construction progress on the B-15 project was slowed due to unforeseen conditions.
- 3) Increase of \$56,438.94 for additional work needed on the B-15 Control Structure/Canal Restoration. (additional hours/equipment used).
- 4) Increase of \$11,681.55 for additional concrete & ballast rock for headwall extension and ACM toe anchor at Import Drive.
- 5) Increase of \$2,428.50 for 24" CMP, 24" MES and ballast rock for ACM toe anchor at B-12.
- 6) Increase of \$1,678.50 for revisions to drainage structures at PSL Blvd, schedule 9.
- 7) All other provisions of the Original Contract / Addendum remain in full force and effect.

**Contract Time:**  
All work shall be completed by January 1, 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 <u>\$26,550.00</u>	Net change from previous Change Orders <u>0</u> days
Contract Price prior to this Change Order <u>\$1,381,137.43</u>	Contract Time prior to this Change Order <u>111</u> date
Increase this Change Order <u>\$72,227.49</u>	Net Increase of this Change Order <u>60</u> days
Contract Price with all approved Change Orders <u>\$1,453,364.92</u>	Contract Time with all approved Change Orders <u>171</u> date

RECOMMENDED:	APPROVED:	APPROVED:
By _____ Engineer	by _____ Owner	by _____ Contractor

**Schedule 7 -E-8 Canal Repairs @ B-15 Control Structure**

11/8/2011

DELETED ITEMS	Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
	Mitered End Section (18")	EA	1.0	\$335.00	\$335.00	0	(1)	(\$335.00)
	<b>Subtotal Added Items</b>							<b>(\$335.00)</b>

ADJUSTED ITEMS:	Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
	Excavator @ \$125.00 / hour	HR	294.0	\$125.00	\$125.00	240	(54)	(\$6,750.00)
	Loader @ \$90.00 / hour	HR	294.0	\$90.00	\$90.00	298	4	\$360.00
	Dump Truck @ \$65.00 / hour	HR	294.0	\$65.00	\$65.00	550.5	257	\$16,672.50
	Labor Crew @ \$341.00 / hour	HR	294.0	\$341.00	\$341.00	380.5	87	\$29,496.50
	Mitered End Section (24")	EA	2.0	\$475.00	\$475.00	4	2	\$950.00
	Rip Rap Rubble	TN	90.8	\$168.00	\$168.00	128.83	38	\$6,389.04
	Fill Material - Furnish and Install	CY	4500.0	\$5.90	\$5.90	4158	(342)	(\$2,017.80)
	Performance Turf (Sod) (Bahia)	SY	24375.0	\$3.15	\$3.15	14725	(9650)	(\$30,397.50)
	<b>Subtotal Adjusted Items</b>							<b>\$14,702.74</b>

ADDED ITEMS	Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
	Excavator (gradall) \$110.00 / hour	HR	0.0	\$110.00	\$110.00	365	365	\$40,150.00
	Pipe Culvert 13" x 17" CAP	LF	0.0	\$61.30	\$61.30	24	24	\$1,471.20
	Install Swale Liner	LF	0.0	\$18.00	\$18.00	25	25	\$450.00
	<b>Subtotal Added Items</b>							<b>\$42,071.20</b>
	<b>SUBTOTAL SCHEDULE 7 CHANGES</b>							<b>\$56,438.94</b>

**Schedule 2 E-8 Canal Repairs @ Import Drive**

DELETED ITEMS	Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
	<b>Subtotal Added Items</b>							<b>\$0.00</b>

ADJUSTED ITEMS:	Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
	Class I Concrete (Headwall Extension)	CY	24.7	\$1,016.10	\$1,016.10	35.2	11	\$10,669.05
	<b>Subtotal Adjusted Items</b>							<b>\$10,669.05</b>

ADDED ITEMS	Description	Unit	Original Quantity	Original Unit Price	New Unit Price	New Quantity	Adjustment This CO	Amount
	# 4 Ballast Rock	TN	0.0	\$0.00	\$40.50	25	25	\$1,012.50
	<b>Subtotal Added Items</b>							<b>\$1,012.50</b>
	<b>SUBTOTAL SCHEDULE 2 CHANGES</b>							<b>\$11,681.55</b>

**Schedule 5 E-8 Canal Repairs @ B-12 Control Structure**

DELETED ITEMS

Subtotal Added Items

\$0.00

ADJUSTED ITEMS:

Subtotal Adjusted Items

\$0.00

ADDED ITEMS

24" CAP	LF	0.0	\$0.00	\$74.00	15	15	\$1,110.00
24" MES	EA	0.0	\$0.00	\$475.00	1	1	\$475.00
# 4 Ballast Rock	TN	0.0	\$0.00	\$40.50	15	15	\$607.50
Fill Material - Furnish and Install	CY	0.0	\$0.00	\$5.90	40	40	\$236.00
Subtotal Added Items							\$2,428.50

**SUBTOTAL SCHEDULE 2 CHANGES**

\$2,428.50

**Schedule 9 E-8 Canal Repairs @ Port St. Lucie Blvd.**

DELETED ITEMS

Mitered End Section (18")

EA 1.0

\$335.00

\$335.00

0

(1)

(\$335.00)

Subtotal Added Items

(\$335.00)

ADJUSTED ITEMS:

Excavator @ \$125.00 / hour	HR	5.0	\$125.00	\$125.00	5	0	\$0.00
Loader @ \$90.00 / hour	HR	5.0	\$90.00	\$90.00	10	5	\$450.00
Dump Truck @ \$65.00 / hour	HR	5.0	\$65.00	\$65.00	10	5	\$325.00
Labor Crew @ \$341.00 / hour	HR	5.0	\$341.00	\$341.00	10	5	\$1,705.00
Rip Rap Rubble	TN	60.0	\$168.00	\$168.00	10	(50)	(\$8,400.00)
Subtotal Adjusted Items							(\$5,920.00)

ADDED ITEMS

Excavator (gradall) \$110.00 / hour	HR	0.0	\$110.00	\$110.00	5	5	\$550.00
Conflict Box Modification	EA	0.0	\$600.00	\$600.00	1	1	\$600.00
4' Diameter Manhole	EA	0.0	\$3,600.00	\$3,600.00	1	1	\$3,600.00
18" RCP	LF	0.0	\$101.00	\$101.00	8	8	\$808.00
30" RCP	LF	0.0	\$155.50	\$155.50	13	13	\$2,021.50
Fill Material - Furnish and Install	CY	0.0	\$5.90	\$5.90	60	60	\$354.00
Subtotal Added Items							\$7,933.50

**SUBTOTAL SCHEDULE 9 CHANGES**

\$1,678.50

**TOTAL CHANGES CO #2**

\$72,227.49

Day	Date	Excavator	Gradall	Loader	Dump Truck	Labor Crew	Weekly Total
		\$125.00	\$110.00	\$90.00	\$65.00	\$341.00	
8/8/2011	Mon	0		0	0	0	
8/9/2011	Tuesday	3		5		8	
8/10/2011	Wednesday	11		4		8	
8/11/2011	Thursday	5.5	2	2		7.5	
8/12/2011	Friday	5	11	4	6	8	
8/13/2011	Saturday	11	11.5	8	11.5	0	
		35.5	24.5	23	17.5	31.5	
<b>Total Hours</b>							
<b>Total Costs</b>		\$4,437.50	\$2,695.00	\$2,070.00	\$1,137.50	\$10,741.50	\$21,081.50
8/14/2011	Sunday						
8/15/2011	Mon	8	11	8	21	11	
8/16/2011	Tuesday	10	11.5	8	44.5	8	
8/17/2011	Wednesday	0	10.5	21	53.5	8	
8/18/2011	Thursday	0	11	19	43.5	2	
8/19/2011	Friday	0	8.5	8.5	35	0	
8/20/2011	Saturday	0	6.5	0	6.5	0	
		18	59	64.5	204	29	
<b>Total Hours</b>							
<b>Total Costs</b>		\$2,250.00	\$6,490.00	\$5,805.00	\$13,260.00	\$9,889.00	\$37,694.00
8/21/2011	Sunday						
8/22/2011	Mon	11	11	11	11	11	
8/23/2011	Tuesday	11	6	5	6	11	
8/24/2011	Wednesday	10.5	10.5	5	10.5	10.5	
8/25/2011	Thursday	7.5	0	6	2	7.5	
8/26/2011	Friday	8	8	0	8	8	
8/27/2011	Saturday	8			8	8	
		56	35.5	27	45.5	56	
<b>Total Hours</b>							
<b>Total Costs</b>		\$7,000.00	\$3,905.00	\$2,430.00	\$2,957.50	\$19,096.00	\$35,388.50
8/28/2011	Sunday						
8/29/2011	Mon	5	11		3	11	
8/30/2011	Tuesday	10.5	10.5	6	10.5	10.5	
8/31/2011	Wednesday	6.5	6.5	6.5	6.5	10.5	
9/1/2011	Thursday	10.5	10.5	10.5	10.5	10.5	
9/2/2011	Friday	6	6	6	6	8	

Day	Date	Excavator	Gradall	Loader	Dump Truck	Labor Crew	Weekly Total
Total Hours	9/3/2011	38.5	44.5	29	36.5	50.5	
Total Costs	9/3/2011	\$4,812.50	\$4,895.00	\$2,610.00	\$2,372.50	\$17,220.50	\$31,910.50
Total Hours	9/4/2011						
	9/5/2011						
	9/6/2011	8.5	8.5	9	8.5	8.5	
	9/7/2011	9	9	7	8	9	
	9/8/2011	10	8	8	8	16.5	
	9/9/2011	8	8	8	8	8	
	9/10/2011	4.5	4.5	24	4.5	4.5	
Total Hours		40	38	24	38	46.5	
Total Costs		\$5,000.00	\$4,180.00	\$2,160.00	\$2,470.00	\$15,856.50	\$29,666.50
Total Hours	9/11/2011						
	9/12/2011	8.5	3	11	3	8.5	
	9/13/2011	8.5	8.5	11	11	8.5	
	9/14/2011	9	9	10	9	21	
	9/15/2011	8	11	8	11	8	
	9/16/2011	8	10	6	24.5	7.5	
	9/17/2011	0	5	5	16		
Total Hours		42	46.5	40	74.5	53.5	
Total Costs		\$5,250.00	\$5,115.00	\$3,600.00	\$4,842.50	\$18,243.50	\$37,051.00
Total Hours	9/18/2011						
	9/19/2011	0	11	8	11	10	
	9/20/2011	5	10	8.5	16	8.5	
	9/21/2011	5	10.5	10.5	22.5	10.5	
	9/22/2011	0	10.5	10.5	10.5	8	
	9/23/2011	0	8	8	9	8	
	9/24/2011	0	8	6	14.5	2	
Total Hours		10	58	51.5	83.5	47	
Total Costs		\$1,250.00	\$6,380.00	\$4,635.00	\$5,427.50	\$16,027.00	\$33,719.50
	9/25/2011						
	9/26/2011	0	4.5	4.5	9	4.5	
	9/27/2011	0	7	5	5	5	

Day	Date	Excavator	Gradall	Loader	Dump Truck	Labor Crew	Weekly Total
		\$125.00	\$110.00	\$90.00	\$65.00	\$341.00	
9/28/2011	Wednesday	0	11	11	11	11	
9/29/2011	Thursday	0	10	8	11	8	
9/30/2011	Friday	0	8.5	8.5		8.5	
10/1/2011	Saturday	0	4.5	2		4.5	
<b>Total Hours</b>		<b>0</b>	<b>45.5</b>	<b>39</b>	<b>36</b>	<b>41.5</b>	
<b>Total Costs</b>		<b>\$0.00</b>	<b>\$5,005.00</b>	<b>\$3,510.00</b>	<b>\$2,340.00</b>	<b>\$14,151.50</b>	<b>\$25,006.50</b>
10/2/2011	Sunday						
10/3/2011	Mon	0	10.5			9	10.5
10/4/2011	Tuesday	0	3			6	8.5
10/5/2011	Wednesday						6
10/6/2011	Thursday						
10/7/2011	Friday						
10/8/2011	Saturday						
<b>Total Hours</b>		<b>0</b>	<b>13.5</b>	<b>0</b>	<b>15</b>	<b>25</b>	
<b>Total Costs</b>		<b>\$0.00</b>	<b>\$1,485.00</b>	<b>\$0.00</b>	<b>\$975.00</b>	<b>\$8,525.00</b>	<b>\$10,985.00</b>
<b>Total Job Hours</b>		<b>240</b>	<b>365</b>	<b>298</b>	<b>550.5</b>	<b>380.5</b>	
<b>Total Job Costs</b>		<b>\$30,000.00</b>	<b>\$40,150.00</b>	<b>\$26,820.00</b>	<b>\$35,782.50</b>	<b>\$129,750.50</b>	<b>\$262,503.00</b>

**MELVIN BUSH CONSTRUCTION, INC.**

Underground Utilities  
 2748 S.W. CASELLA ST.  
 PORT ST. LUCIE, FL 34953

Tel (772) 336-0623  
 Fax (772) 336-0488

TO CITY OF PORT ST. LUCIE  
 DEPT. OF PUBLIC WORKS  
 900 SE OGDEN LANE  
 PORT ST. LUCIE FL 34983

**change order**

NUMBER: 251  
 X **ADDITIONAL WORK ORDER**

PHONE (772) 871-7399	DATE 11/2/2011
JOB NAME / LOCATION E-8 WATERWAY NRCS EWP REPAIRS SCHEDULE 7 B-15 CONTROL STRUCTURE ADDITIONAL WORK TO CONTRACT INSTALL PIPE ON QUARRY ST & JAY AVE	
CONTRACT / JOB NUMBER 20070008/AMEND 21	JOB PHONE

We hereby agree to the change(s) or additional work specified below:

E-8 WATERWAY NRCS EWP REPAIRS  
 SCHEDULE 7 B-15 CONTROL STRUCTURE  
 ADDITIONAL WORK TO CONTRACT  
 INSTALL PIPE ON QUARRY ST & JAY AVE

INSTALL 13 X 17 CAP	24/LF	61.30	1,471.20
INSTALL SWALE LINER	25/LF	18.00	450.00
			<u>1,921.20</u>

NOTE: This Change Order becomes part of and in conformance with the existing contract.

**We Agree** hereby to make the change(s) specified above at this price ▶ 1,921.20

Date of agreement: 11/2/11	PREVIOUS CONTRACT AMOUNT	1,381,137.43
Authorized Signature: <i>Melvin Bush</i> (CONTRACTOR)	REVISED CONTRACT TOTAL	1,383,058.63

Payment will be made as follows:

**Accepted** — The above prices and specifications of this Change Order are satisfactory and are hereby accepted. All work to be performed under same terms and conditions as specified in original contract unless otherwise stipulated.

Authorized Signature \_\_\_\_\_ (OWNER)  
 Date of acceptance: \_\_\_\_\_

E-8 CANAL REPAIR @ IMPORT DRIVE  
CONCRETE HEADWALL EXTENSION

11/7/11

$$2' \times 46' \times 0.83 = 76.36 \text{ CF}$$

$$15 \times 10.25' \times 0.83 \times 2 = 255.23 \text{ CF}$$

$$\text{FOOTING} = 5.25' \times 0.75 \times 15 \times 2 = 118.13 \text{ CF}$$

$$\text{TOE} = 1.25' \times 0.67 \times 15 \times 2 = 25.13 \text{ CF}$$

$$\underline{474.85 \text{ CF}} \div 27 =$$

$$\times 2 = 949.70 \div 27 = 35.2 \text{ cy}$$

PLAN QUANT = 24.7

ACTUAL QUANT = 35.2

# PROPOSAL

20110203

**MELVIN BUSH CONSTRUCTION, INC.**  
**UNDERGROUND UTILITIES**  
2748 S.W. CASELLA STREET  
PORT ST. LUCIE, FL 34953

Phone (772) 336-0623  
Fax (772) 336-0488

TO: CAPTEC ENGINEERING, INC.  
301 NW FLAGLER AVE  
STUART FL 34994

PHONE (772) 692-4344	DATE 11/3/2011
JOB NAME / LOCATION MATERIAL PRICE #4 BALLAST ROCK WITH FILTER FABRIC	
JOB NUMBER	JOB PHONE

We hereby submit specifications and estimates for:

MATERIAL PRICE  
#4 BALLAST ROCK WITH FILTER FABRIC

#4 BALLAST ROCK WITH FILTER FABRIC 40.50/PER TON

We Propose hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of: \_\_\_\_\_ dollars (\$ \_\_\_\_\_).

Payment to be made as follows:

All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control, Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.

**Acceptance of Proposal** — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: \_\_\_\_\_

Authorized  
Signature \_\_\_\_\_

Note: This proposal may be  
withdrawn by us if not accepted within \_\_\_\_\_ days.

Signature \_\_\_\_\_

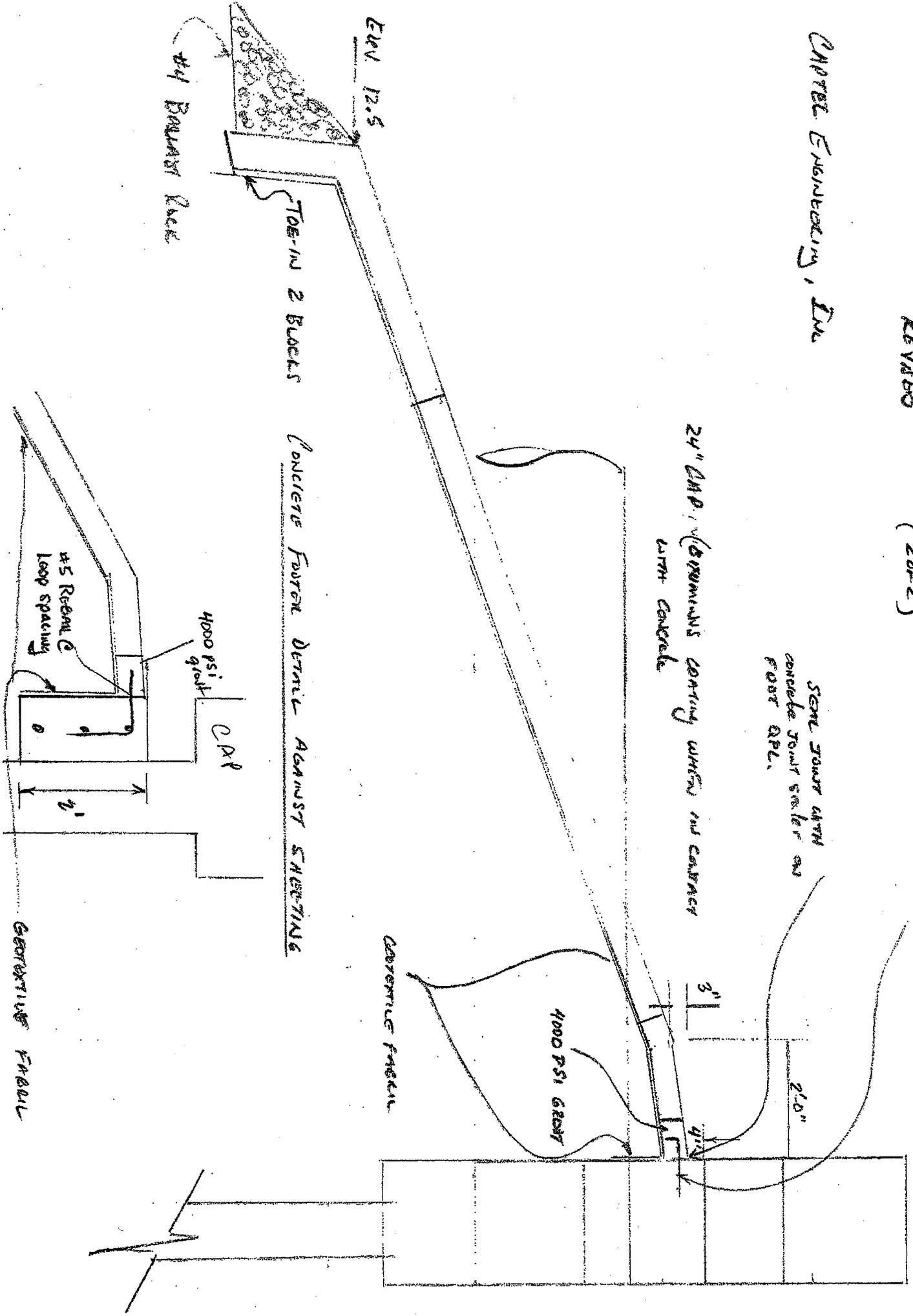
Signature \_\_\_\_\_

E-8 Lower Repair & B-12 Corridor Structures  
REVADO (2022)

CHOTTEL ENGINEERING, INC

1/5 REBAR DOUBLS TO CONCRETE WITH  
W/2 LOOPS.

10/17/11



SEMI JOINT WITH  
CONCRETE JOINT SEALER AND  
FOOT OPL.

24" CHD. MEMBERS CONTAINING W/2 AND CONCRETE  
WITH CONCRETE

TOE-IN 2 BLOCKS  
CONCRETE FURTER DETAIL AGAINST SHEETING

W/2 BARRELS BACK

4000 PSI  
GRAVEL

CRP

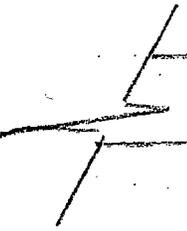
W/5 REBAR @  
LOOP SPACING

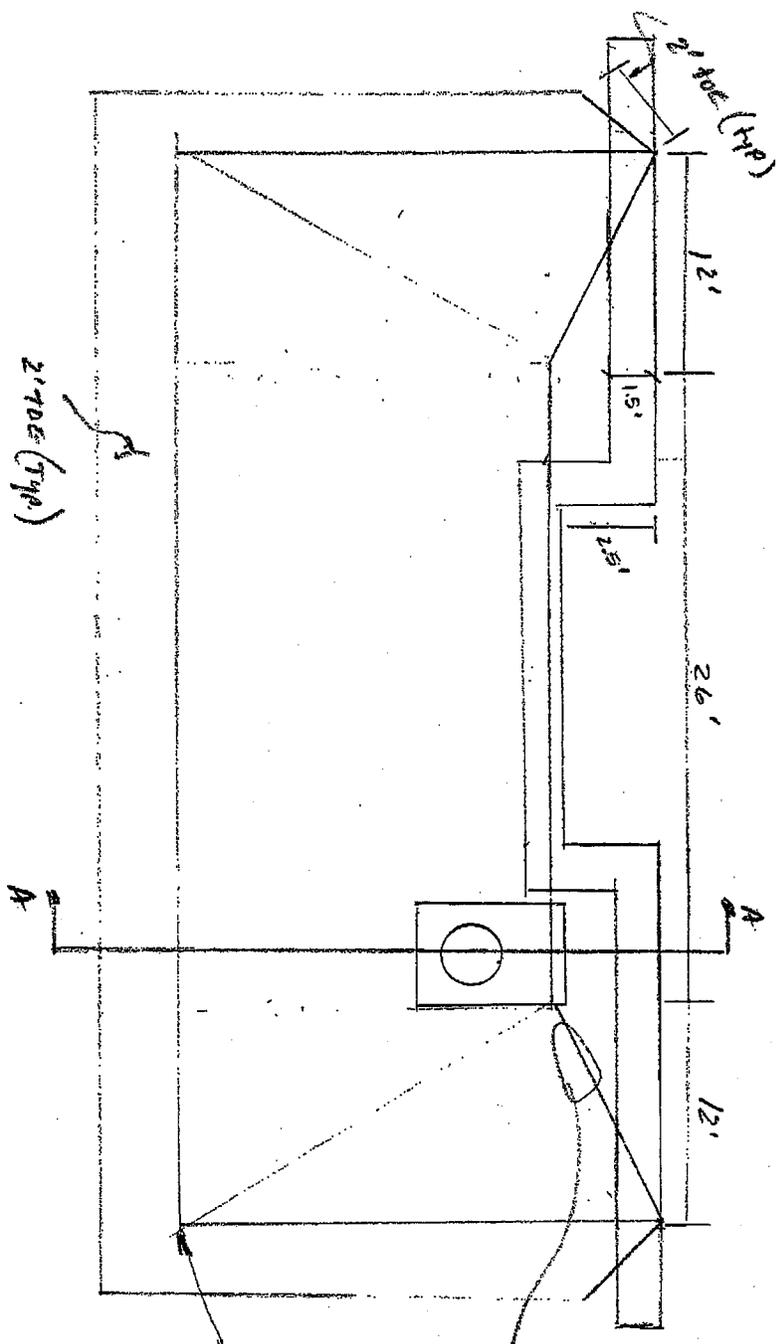
1/2'

4000 PSI GRCBT

ADAPTIVE FACIL

GEOMETRIC FALL

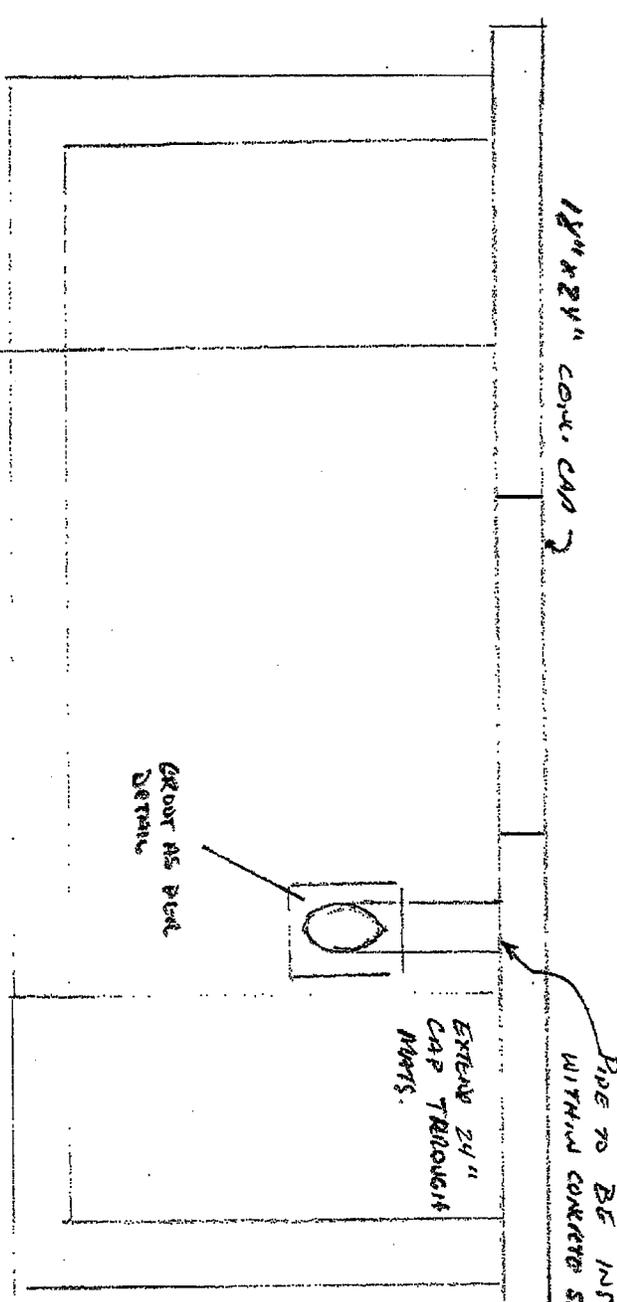




See detail for concrete floor  
against sheathing (typ.)

N.T.S.

10/17/61

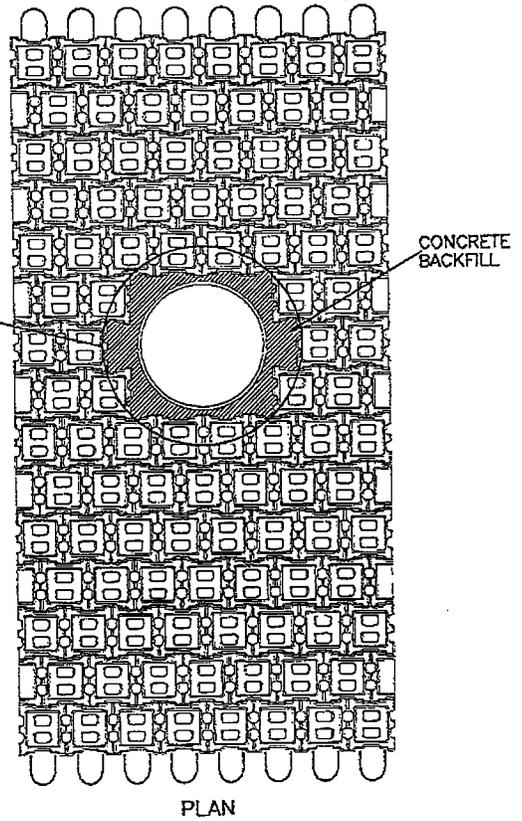
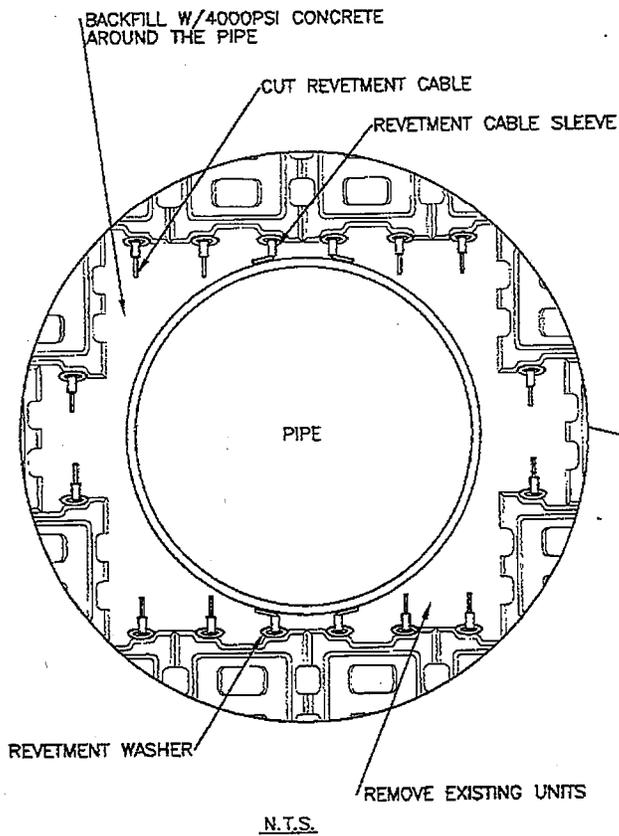


PIPE TO BE INSTALLED  
WITHIN CONCRETE SLAB. CHIPPED EXISTING CONCRETE TO  
ACCESS PIPE. GROUT AFTER INSTALLATION.  
ALUMINUM PIPE TO BE BURNISHED COATING  
WHEN IN CONTACT WITH CONCRETE.

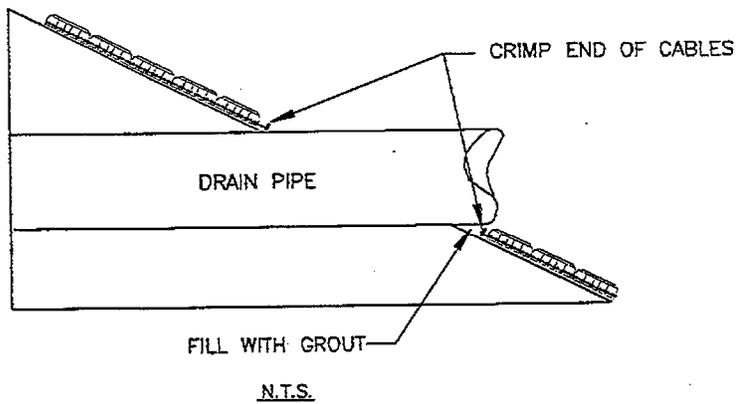
EXTEND 24\"/>

GROUT AS PER  
DETAIL.

EG CANAL REPAIR @ B-12 CONTROL STRUCTURE  
REVISED (1 OF 2)



TYPICAL ARMORFLEX MAT  
NOT TO SCALE



# PROPOSAL

20110193

**MELVIN BUSH CONSTRUCTION, INC.**  
**UNDERGROUND UTILITIES**  
 2748 S.W. CASELLA STREET  
 PORT ST. LUCIE, FL 34953

Phone (772) 336-0623  
 Fax (772) 336-0488

TO: CITY OF PORT ST. LUCIE  
 DEPT. OF PUBLIC WORKS  
 900 SE OGDEN LANE  
 PORT ST. LUCIE FL 34983

PHONE (772) 871-7399	DATE 10/19/2011
JOB NAME / LOCATION E-8 WATERWAY NRCS EWP REPAIRS SCHEDULE 9 - REPAIR @ PSL BLVD	
JOB NUMBER 20010008/AMEND 21	JOB PHONE

We hereby submit specifications and estimates for:

E-8 WATERWAY NRCS EWP REPAIRS  
 SCHEDULE 9 - REPAIR @ PSL BLVD

MOBILIZATION	1/LS	2,000.00	2,000.00
CLEARING & GRUBBING	1/LS	1,000.00	1,000.00
CHANNEL RESTORATION & REGRADING	10/HRS	621.00	6,210.00
EXCAVATOR	125.00 @ 10/HRS		
LOADER	90.00 @ 10/HRS		
DUMP TRUCK	65.00 @ 10/HRS		
LABOR CREW	341.00 @ 10/HRS		
CONFLICT BOX MODIFICATION	1/EA	600.00	600.00
30" MITERED END SECTION	1/EA	700.00	700.00
DRAINAGE MOD. (SKIMMER BAFFLE)	1/EA	500.00	500.00
RIP RAP	10/TON	168.00	1,680.00
SOD/BAHIA	420/SY	3.15	1,323.00
EMBANKMENT MATERIAL (FURNISH ONLY)	60/CY	5.90	354.00
18" RCP	8/LF	101.00	808.00
30" RCP	13/LF	155.50	2,021.50
4" DIAMETER MANHOLE	1/EA	3,600.00	3,600.00
IRRIGATION ALLOWANCE	1/ALLOW	1,000.00	1,000.00
			<u>21,796.50</u>

**We Propose** hereby to furnish material and labor — complete in accordance with the above specifications, for the sum of:

Twenty One Thousand Seven Hundred Ninety Six and 50/100 Dollars dollars (\$) 21,796.50 )

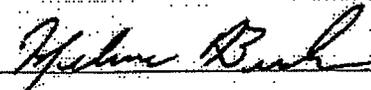
Payment to be made as follows:

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Date of Acceptance: \_\_\_\_\_

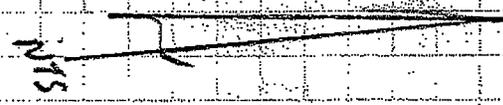
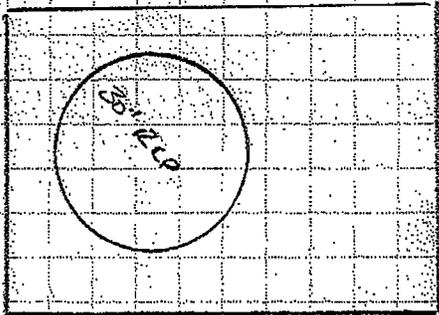
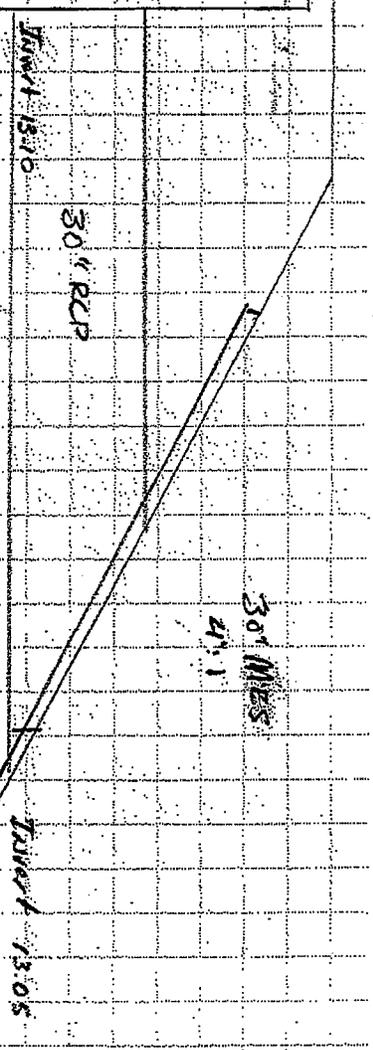
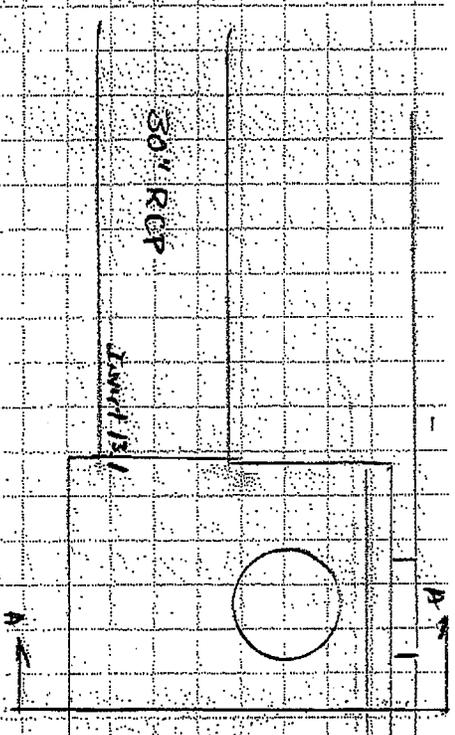
Authorized  
Signature



Note: This proposal may be withdrawn by us if not accepted within \_\_\_\_\_ days.

Signature \_\_\_\_\_

Signature \_\_\_\_\_



Capotec Environmental, Inc.  
10/12/11

SECTION 14-19

E-P Ground Repair @ PSL Blvd. Reused 10/12/11

4" 18" RCP

30" RCP

Invert 13.1

Invert 13.0

30" RCP

30" RCP  
4" 18"

Invert 13.05

18"