

PORT ST. LUCIE CITY COUNCIL
AGENDA ITEM REQUEST

COUNCIL ITEM 7D
DATE 8/13/12

Meeting Date: August 13, 2012

Public Hearing ___ Ordinance ___ Resolution ___ Motion X

Item: Contract #20120008 CO #1 - St. Lucie North Drainage Improvement Project

Recommended Action:

Approval of Change Order #1 with Melvin Bush Construction, Inc. for the St. Lucie North Drainage Improvement Project in the amount of a net decrease of (\$2,766.12) and 0 additional calendar days. The new Contract price is \$1,814,329.79 and the Contract period remains at two-hundred forty (240) calendar days for completion of the project.

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

Summary Explanation/Background Information: The St. Lucie North Drainage Improvement Project was awarded to Melvin Bush Construction on March 12, 2012 by the City Council. This Change Order is for additions and deletions of contract items due to modifications and revisions that were undertaken to address unforeseen construction issues, improve long term performance and to reduce cost.

This Change Order involves removal of a pay item for Class I concrete endwalls; the addition of a new pay item for gravity walls, rock, rubble, survey (as-builts) and maintenance of traffic; a new pay item for concrete slope pavement, saw cutting of pipe, removal of concrete debris, stake-out survey, re-mobilization and relocation of the dewatering system; a new pay item for concrete grout for the articulated concrete block matting at Rugby Drive; removal of a pay item for 43" x 68" elliptical reinforced concrete pipe and the reduction in quantity of Class I concrete.

The Public Works Department has reviewed these changes and recommends approval of Change Order #1 by the City Council.

Purchase is a replacement Purchase is budgeted.

Expenditure: (\$2,766.12) & 0 additional calendar days

Department requests expenditure from the following:

Fund	401	Stormwater
Cost Center	4126	Street & Drainage
Object Code	534000	Other Contractual Services
Project	Y1123	HMGP Grant-St Lucie N Canals

Director of OMB concurs with award: 

City Manager concurs with award: 

Department requests ___-0-___ minutes to make a presentation.

Submitted by: Patricia Roebling

Date Submitted: 8/6/2012
RECEIVED
AUG 07 2012

Title: City Engineer

City Manager's Office

CHANGE ORDER

No.: 1

PROJECT:	City of Port St. Lucie Contract No. <u>20120008</u>	DATE OF ISSUANCE:
OWNER:	City of Port St. Lucie 121 SW Port St. Lucie Boulevard Port St. Lucie, Florida 34984	
CONTRACTOR:	Melvin Bush Construction 2748 SW Casella St Port St Lucie, FL 34953	OWNER's Project No.: <u>20120008</u>
		ENGINEER: Culpepper & Terpening, Inc.
CONTRACT FOR:	N St Lucie Drainage Basin Improvements	ENGINEER's Project # <u>11-303</u>

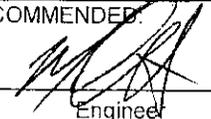
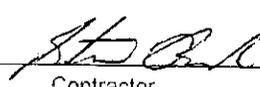
You are directed to make the following changes in the Contract Documents.

Description: City of Port St. Lucie Contract No. 20120008 Change Order 01

Purpose of Change Order:

1. Modifications to Project Schedule 1, including deletion of end walls, and addition of gravity walls and rubble rip rap. These changes were implemented due to constructability issues related to high canal flows.
 2. Modifications to Project Schedule 4, including addition of slope pavement and cutting existing pipes. Also, pays for unforeseen concrete debris removal and relocation of dewatering system due to plan modifications.
 3. Installation of grout in ACB mat openings within Project Schedule 11 work area.
 4. Modifications to Project Schedule 13 including installation of elliptical culverts in lieu of round culverts as well as related end wall modifications. These modifications were needed due to utility and pipe cover concerns. End wall locations were also adjusted, resulting in reduced pipe lengths.
 5. All other contract provisions / addenda remain in full force and effect.
- (See Attachments)

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIME:
Original Contract Price \$ <u>1,817,095.91</u>	Original Contract Time <u>240</u> days or date
Previous Change Orders \$ <u>-</u>	Net change from previous Change Orders <u>0</u> days
Contract Price prior to this Change Order \$ <u>1,817,095.91</u>	Contract Time prior to this Change Order <u>240</u> days or date
Net Increase (Decrease) of this Change Order \$ <u>(2,766.12)</u>	Net Increase (Decrease) of this Change Order <u>0</u> days
Contract Price with all approved Change Orders \$ <u>1,814,329.79</u>	Contract Time with all approved Change Orders <u>240</u> days or date

RECOMMENDED:	APPROVED:	APPROVED:
By <u></u> Engineer	By _____ Owner	By <u></u> 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: DALE MAJEWSKI, NPDES PROGRAM MANAGER

THRU: JAMES E. ANGSTADT, P.E. – ACTING ASSISTANT CITY ENGINEER JEA

DATE: AUGUST 2, 2012

RE: ST. LUCIE NORTH DRAINAGE BASIN IMPROVEMENTS
MELVIN BUSH CONSTRUCTION (CONTRACT NO. 20120008)
CHANGE ORDER NO. 1

Attached please find a change order form, a recommendation letter from Culpepper and Terpening, Inc. (CEI) and a summary spreadsheet for Change Order No. 1 with Melvin Bush Construction to address construction revisions on the St. Lucie North Drainage Basin Improvement project. The Public Works Department is 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 St. Lucie North Drainage Basin Improvement Project with Melvin Bush Construction is for additions and deletions of contract items due to modifications and revisions which were undertaken to address unforeseen construction issues, improve long-term performance, and reduce cost. The change order involves the following:

- The removal of a pay item for Class I concrete endwalls and the addition of new pay items for Gravity walls, rock rubble, survey (as-builts) and maintenance of traffic. These revisions were initiated due to constructability issues relating to high water elevations in the C-108 Canal. The revisions at this location resulted in a credit of \$11,064.25.
- The addition of pay items for Concrete slope pavement, saw cutting of pipe, removal of concrete debris, stake-out survey, re-mobilization and relocation of dewatering system. These items are being added to the contract due to revisions to the plans to resolve constructability issues relating to high water elevations in the C-108 Canal and to address unforeseen conditions not discovered until construction was undertaken. The total cost for the revisions at this work location is \$19,833.26.
- The addition of a new pay item for concrete grout for the Articulated Concrete Block matting at Rugby Drive. This item is needed to provide additional stabilization to the matting to reduce potential soil erosion and assist in supporting the matting. The cost for this addition is \$652.36.
- The removal of a pay item for 54" Reinforced Concrete Pipe (RCP) and the addition of a new pay item for 43"x68" Elliptical RCP and the reduction in the quantity of Class I concrete. These revisions were undertaken to avoid utility relocations and to establish adequate cover over the top of the pipe system at the intersection of Blanton Blvd. and West Torino Pkwy. Also, design changes resulted in the reduction in the overall quantity of pipe needed at this location. The total

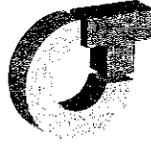
credit for this revision is \$12,187.49.

This change order will result in an overall decrease in the contract price of \$2,766.12 for a new contract price of \$1,814,329.79. This change order involves no change in contract time. This contract is funded by account number 401-4126-534000-Y1123.

The Public Works Department has reviewed this change order and has coordinated with Culpepper and Terpening Inc. (CEI) on it to the point where we feel it is acceptable and recommend it for approval. Please process this material and schedule it for presentation at the next available City Council meeting for the Council's consideration. If additional documentation is needed, or if you have any questions, please do not hesitate to contact me. Thank you for your cooperation.

cc: Jesus Merejo, Utility Systems Director
Patricia Roebing, P.E., City Engineer
Dave Pollard, Director of OMB
Sue Walsh, Manager, Operations

S:\projects\St Lucie North Watershed Drainage Improvements\Change Orders\12-08-02 OMB SLNDBI Bush CO#1.doc



CULPEPPER & TERPENING, INC
CONSULTING ENGINEERS | LAND SURVEYORS

July 18, 2012

Sender's Email: mdimitriou@ct-eng.com
Project 11-303

VIA: Email smajewski@cityofpsl.com
Original via Hand Delivery

Mr. Dale Majewski
Engineering Department
City of Port St. Lucie
121 SW Port St. Lucie Boulevard
Port St. Lucie, FL 34984

**RE: St. Lucie North Drainage Basin Improvements
Contract 20120008/ Change Order #1**

Dear Mr. Majewski:

Attached are four signed originals of Change Order 1. This change order is issued for the following items:

- Modifications to Project Schedule 1, including deletion of end walls and addition of gravity walls and rip rap;
- Modifications to Project Schedule 4, including addition of slope pavement and payment for removal of unforeseen concrete debris;
- Installation of grout at Project Schedule 11 articulated concrete block mats;
- Modifications to Project Schedule 13, including use of elliptical pipe in lieu of round pipe and pipe length reductions & associated end wall modifications.

These changes are being made to reduce risk during construction, improve long-term performance, and reduce cost. This change order is in the amount of (\$2,766.12) and no additional time.

This change order package is presented with the recommendation for processing.

Sincerely,

CULPEPPER & TERPENING, INC.


Marcelo Dimitriou, P.E.
Construction Services Director

cc: James Angstadt, P.E., CPSL Eng

A LEGACY OF EXPERTISE AND EXCELLENCE

2980 SOUTH 25TH STREET | FT. PIERCE, FL 34981 | (772) 464-3537 | FAX: (772) 464-9497

Contract 200120008
Change Order 1
Attachment

City of Port St. Lucie Contract No. 20120008 City of Port St. Lucie 121 SW Port St. Lucie Boulevard Port St. Lucie, Florida 34984	DATE OF ISSUANCE: _____
Melvin Bush Construction 2748 SW Casella St Port St Lucie, FL 34953	OWNER's Project No.: <u>20120008</u> ENGINEER: Culpepper & Terpening, Inc.
North St Lucie Drainage Basin Improvements	ENGINEER's Project # <u>11-303</u>

1. Modifications to Project Schedule 1, including deletion of end walls, and addition of gravity walls and rubble rip rap. These changes were implemented due to constructability issues related to high canal flows.
2. Modifications to Project Schedule 4, including addition of slope pavement and cutting existing pipes. Also, pays for unforeseen concrete debris removal and relocation of dewatering system due to plan modifications.
3. Installation of grout in ACB mat openings within Project Schedule 11 work area.
4. Modifications to Project Schedule 13 including installation of elliptical culverts in lieu of round culverts, as well as related end wall modifications. These modifications were needed due to utility and pipe cover concerns. End wall locations were also adjusted, resulting in reduced pipe lengths.
5. All other contract provisions / addenda remain in full force and effect.

Description	Qty	Unit	Unit Price	Amount
Item 1 - Schedule 1				
Survey & As-builts	1.00	LS	\$ 580.00	\$ 580.00
Maintenance of Traffic	1.00	LS	\$ 1,000.00	\$ 1,000.00
Item 2 - Schedule 1				
Class I Concrete (Endwalls)	-33	CY	\$ 1,917.00	\$ (63,261.00)
Gravity Wall	40.5	CY	\$ 793.50	\$ 32,136.75
Rip Rap Rubble	110	TN	\$ 168.00	\$ 18,480.00
Item 8 - Schedule 4				
Re-Mobilization	1.00	LS	\$ 2,000.00	\$ 2,000.00
Stake-out Survey	1.00	LS	\$ 500.00	\$ 500.00
Item 9 - Schedule 4				
Removal of Unforeseen Concrete Debris from Spillway Area	1.00	LS	\$ 5,474.27	\$ 5,474.27
Relocate Well Point System and Containment Berm to Accommodate Plan Modifications	1.00	LS	\$ 1,745.24	\$ 1,745.24
Concrete Slope Pavement (on ACB Mats)	167.00	LS	\$ 56.25	\$ 9,393.75
Saw Cut Existing 24" Pipe	3.00	EA	\$ 240.00	\$ 720.00
Item 28 - Schedule 11				
Grout Fill ACB Mats at Rugby	1.00	LS	\$ 652.36	\$ 652.36

Contract 200120008
Change Order 1
Attachment

Item 34 - Schedule 13				
43"x68" ERCP (Includes pavement restoration)	768.00	LF	\$ 216.78	\$ 166,487.04
54" RCP (Includes pavement restotation)	(931.00)	LF	\$ 172.43	\$ (160,532.33)
Class I Concrete (Endwalls) (Includes Reinforcing)	(18.00)	CY	\$ 1,007.90	\$ (18,142.20)
CHANGE ORDER 1 TOTAL:				\$ (2,766.12)

MELVIN BUSH CONSTRUCTION, INC.
 Underground Utilities
 2748 S.W. CASELLA ST.
 PORT ST. LUCIE, FL 34953

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

20120008 - REVISED
 12725-07

change order

ADDITIONAL WORK ORDER

TO

CITY OF PORT ST. LUCIE
 121 SW PORT ST. LUCIE BLVD
 PORT ST. LUCIE, FL 34984

PHONE (772) 871-7399	DATE 7/3/2012
JOB NAME / LOCATION CITY OF PORT ST. LUCIE ST. LUCIE NORTH DRAINAGE BASIN SCHEDULE 1/ ST. JAMES DR @ C-108 CANAL	
CONTRACT / JOB NUMBER #20120008	JOB PHONE

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

ST. LUCIE NORTH DRAINAGE BASIN IMPROVEMENTS
 SCHEDULE 1 / ST. JAMES DRIVE @ C-108 CANAL

ADDITIONAL MODIFICATIONS TO CONTRACT

SCHEDULE 1 - ST. JAMES DRIVE @ C-108 CANAL

GRAVITY WALL	40.5 CY	\$ 793.50	\$ 32,136.75
RIP RAP	110 TN	\$ 168.00	\$ 18,480.00
SURVEY & AS-BUILTS	1 LS	\$ 500.00	\$ 500.00
MAINTENANCE OF TRAFFIC	1 LS	\$ 1,000.00	\$ 1,000.00
	TOTAL CHANGE ORDER		\$ 52,116.75

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		\$52,116.75
Date of agreement: 7/3/2012	PREVIOUS CONTRACT AMOUNT	
Authorized Signature: <i>Melvin Bush</i> (CONTRACTOR)	REVISED CONTRACT TOTAL	\$52,116.75

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: _____

COI 50817

MELVIN BUSH CONSTRUCTION, INC.

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

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

20120008

12725-08

change order

ADDITIONAL WORK ORDER

TO

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

PHONE (772) 871-7399	DATE 6/27/2012
JOB NAME / LOCATION CITY OF PORT ST. LUCIE ST. LUCIE NORTH DRAINAGE BASIN SCHEDULE 4/ JORGENSEN RD@ C-108 CANAL	
CONTRACT / JOB NUMBER #20120008	JOB PHONE

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

> ST. LUCIE NORTH DRAINAGE BASIN IMPROVEMENTS
SCHEDULE 4 / JORGENSEN ROAD @ C-108 CANAL

ADDITIONAL MODIFICATIONS TO CONTRACT

SCHEDULE 4 - JORGENSEN ROAD @ C-108 CANAL

MOBILIZATION	1 LS	\$ 2,000.00	\$ 2,000.00
STAKE-OUT / SURVEYING	1 LS	\$ 500.00	\$ 500.00
CONCRETE SLOPE PAVEMENT	167 SY	\$ 56.25	\$ 9,393.75
SAW CUT EXISTING 24" PIPE	3 EA	\$ 240.00	\$ 720.00
TOTAL CHANGE ORDER			\$ 12,613.75

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 **\$12,613.75**

Date of agreement: 6/27/2012
Authorized Signature: *Melvin Bush*
(CONTRACTOR)

PREVIOUS CONTRACT AMOUNT	
REVISED CONTRACT TOTAL	\$12,613.75

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: _____

COI 60F17

MELVIN BUSH CONSTRUCTION, INC.

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

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

20120008
12725-02

change order

ADDITIONAL WORK ORDER

TO

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

PHONE (772) 871-7399	DATE 5/25/2012
JOB NAME / LOCATION CITY OF PORT ST. LUCIE ST. LUCIE NORTH DRAINAGE BASIN SCHEDULE 4 / JORGENSEN ROAD ADDITIONAL CONCRETE REMOVAL	
CONTRACT / JOB NUMBER #20120008	JOB PHONE

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

- > ST. LUCIE NORTH DRAINAGE BASIN IMPROVEMENTS
SCH. 4 - C-108 CANAL STRUCTURE 8-02 JORGENSEN ROAD
DATE OF WORK 4/23/12 - 4/24/12

ADDITIONAL CONCRETE REMOVAL	109.16 TON	\$	22.30	\$	2,434.27
330 TRACKHOE	16 HRS	\$	125.00	\$	2,000.00
DUMP TRUCK	16 HRS	\$	65.00	\$	1,040.00
			TOTAL	\$	5,474.27

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		\$	5,474.27
Date of agreement: 5/25/2012	PREVIOUS CONTRACT AMOUNT		
Authorized Signature: <i>Melvin Bush</i> (CONTRACTOR)	REVISED CONTRACT TOTAL		\$5,474.27

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: _____

St Lucie North Jorg

East Coast Recycling
4880 Glades Cut-Off Road
Fort Pierce, Florida 34981
(772)461-5833

PAID
4/23/12
#47009

Ticket#: 125439

Bill Acct: MELVBUSH MELVIN BUSH CONSTRUCTION, INC. Haul Acct: JOB: CONTC 16

Vehicle#: M85 Trailer#: 7 - Dump Truck
TT = 110 - Inbound-Recoverd Mat PT = 1 - Charge
ID Out: DEK Check = #

---In--- ---Out---
Date 04/23/12 04/23/12
Time 16:07 16:16
Ship Date 04/23/12

Material Types	Rate/UM	Vol/DY Tons	Tax	Tip	Tot
MT = 51 - Concrete-Contaminate	119.00/TN	20.00 15.89	10.00	1301.91	1301.91
MT =	/				
MT =	/				
MT =	/				

Gross 58200 lbs Tip Amt 301.91 @ \$19.00/tn
Tare 26420 lbs Spec Amt 0.00
NET-) 31780 lbs 15.89Tons Tax Amt 0.00 @ 0.0%

=====
Amount \$301.91

Driver's Signature: [Signature]

East Coast Recycling
4880 Glades Cut-Off Road
Fort Pierce, Florida 34981
(772)461-5833

Ticket#: 125436

Bill Acct: MELVBUSH MELVIN BUSH CONSTRUCTION, INC. Haul Acct: JOB: 16

Vehicle#: M810 Trailer#: 7 - Dump Truck
TT = 110 - Inbound-Recoverd Mat PT = 1 - Charge
ID Out: DEK Check = #

---In--- ---Out---
Date 04/23/12 04/23/12
Time 15:44 15:50
Ship Date 04/23/12

Material Types	Rate/UM	Vol/DY Tons	Tax	Tip	Tot
MT = 51 - Concrete-Contaminate	119.00/TN	20.00 15.31	10.00	1290.89	1290.89
MT =	/				
MT =	/				
MT =	/				

Gross 55860 lbs Tip Amt 290.89 @ \$19.00/tn
Tare 23240 lbs Spec Amt 0.00
NET-) 30620 lbs 15.31Tons Tax Amt 0.00 @ 0.0%

=====
Amount \$290.89

Driver's Signature: [Signature] Jorgensen

East Coast Recycling
 4880 Glades Cut-Off Road
 Fort Pierce, Florida 34981
 (772) 461-5033

Ticket#: 125452

Bill Acct: MELVBUSH
 MELVIN BUSH CONSTRUCTION, INC.

Haul Acct:
 JOB: CON CON
 PO#: _____

Vehicle#: MB10
 Trailer#: 7 - Dump Truck
 IT = 100 - Inbound Waste PT = 1 - Charge
 ID Out: AFP Check = #
 Date 04/24/12 04/24/12
 Time 08:22 08:22
 Ship Date 04/24/12

Material Types	Rate/UM	Vol/RY Tons	Tax	Tip	Tot
NT = 51 - Concrete-Contaminate	\$19.00/TN	20.00 7.99	\$0.00	\$151.61	\$151.61
NT =	/				
NT =	/				
NT =	/				

Gross 41200 lbs
 Tare 25240 lbs
 NET -> 15960 lbs 7.99Tons
 Tip Amt 151.61 @ \$19.00/tn
 Spec Amt 0.00
 Tax Amt 0.00 @ 0.0%

Driver's Signature: *[Signature]* Jorgensen

East Coast Recycling
 4880 Glades Cut-Off Road
 Fort Pierce, Florida 34981
 (772) 461-5033

Ticket#: 125490

Bill Acct: MELVBUSH
 MELVIN BUSH CONSTRUCTION, INC.

Haul Acct:
 JOB: CON CON
 PO#: _____

Vehicle#: MB9
 Trailer#: 7 - Dump Truck
 IT = 100 - Inbound Waste PT = 1 - Charge
 ID Out: AFP Check = #
 Date 04/24/12 04/24/12
 Time 08:13 08:22
 Ship Date 04/24/12

Material Types	Rate/UM	Vol/RY Tons	Tax	Tip	Tot
NT = 51 - Concrete-Contaminate	\$19.00/TN	20.00 13.84	\$0.00	\$262.95	\$262.95
NT =	/				
NT =	/				
NT =	/				

Gross 54400 lbs
 Tare 26720 lbs
 NET -> 27680 lbs 13.84Tons
 Tip Amt 262.95 @ \$19.00/tn
 Spec Amt 0.00
 Tax Amt 0.00 @ 0.0%

Driver's Signature: *[Signature]* Jorgensen

East Coast Recycling
 4880 Glades Cut-Off Road
 Fort Pierce, Florida 34981
 (772) 461-5033

Ticket#: 125490

Bill Acct: MELVBUSH
 MELVIN BUSH CONSTRUCTION, INC.

Haul Acct:
 JOB: CON CON
 PO#: _____

Vehicle#: MB10
 Trailer#: 7 - Dump Truck
 IT = 100 - Inbound Waste PT = 1 - Charge
 ID Out: AFP Check = #
 Date 04/24/12 04/24/12
 Time 15:56 16:01
 Ship Date 04/24/12

Material Types	Rate/UM	Vol/RY Tons	Tax	Tip	Tot
NT = 51 - Concrete-Contaminate	\$19.00/TN	20.00 10.65	\$0.00	\$202.35	\$202.35
NT =	/				
NT =	/				
NT =	/				

Gross 46540 lbs
 Tare 25340 lbs
 NET -> 21200 lbs 10.65Tons
 Tip Amt 202.35 @ \$19.00/tn
 Spec Amt 0.00
 Tax Amt 0.00 @ 0.0%

Driver's Signature: *[Signature]* Jorgensen

COI 90R17

East Coast Recycling
4000 Glades Cut-Off Road
Fort Pierce, Florida 34981
(772)461-5033

Bill Acct: MELVBUSH MELVIN BUSH CONSTRUCTION, INC. Haul Acct: JDB: CON CON
POB: JDB: CON CON Ticket#: 125487
Vehicle#: MB10
Trailer#: 7 - Dump Truck
TT = 100 - Inbound Waste PT = 1 - Charge
ID Out: AFP Check = #
Date 04/24/12 04/24/12
Time 15:03 15:03
Ship Date 04/24/12

Material Types	Rate/UN	Vol/UY Tons	Tax	Tip	Tot
MT = 51 - Concrete-Contaminate	\$19.00/TN	20.00 6.63	\$0.00	\$125.97	\$125.97
MT =	/				
MT =	/				
MT =	/				

Gross 38500 lbs
Tare 25240 lbs
NET-> 13260 lbs 6.63Tons
Tip Amt 125.97 @ \$19.00/tn
Spec Amt 0.00
Tax Amt 0.00 0.0%

Amount \$125.97
Driver's Signature: Andy E. Jorgensen

East Coast Recycling
4000 Glades Cut-Off Road
Fort Pierce, Florida 34981
(772)461-5033

Bill Acct: MELVBUSH MELVIN BUSH CONSTRUCTION, INC. Haul Acct: JDB: CON CON
POB: JDB: CON CON Ticket#: 125455
Vehicle#: MBS
Trailer#: 7 - Dump Truck
TT = 100 - Inbound Waste PT = 1 - Charge
ID Out: AFP Check = #
Date 04/24/12 04/24/12
Time 08:53 09:03
Ship Date 04/24/12

Material Types	Rate/UN	Vol/UY Tons	Tax	Tip	Tot
MT = 51 - Concrete-Contaminate	\$19.00/TN	20.00 13.16	\$0.00	\$250.04	\$250.04
MT =	/				
MT =	/				
MT =	/				

Gross 52940 lbs
Tare 26628 lbs
NET-> 26312 lbs 13.16Tons
Tip Amt 250.04 @ \$19.00/tn
Spec Amt 0.00
Tax Amt 0.00 0.0%

Amount \$250.04
Driver's Signature: [Signature]

East Coast Recycling
4000 Glades Cut-Off Road
Fort Pierce, Florida 34981
(772)461-5033

Bill Acct: MELVBUSH MELVIN BUSH CONSTRUCTION, INC. Haul Acct: JDB: CON CON
POB: JDB: CON CON Ticket#: 125489
Vehicle#: MBS
Trailer#: 7 - Dump Truck
TT = 100 - Inbound Waste PT = 1 - Charge
ID Out: AFP Check = #
Date 04/24/12 04/24/12
Time 15:32 15:39
Ship Date 04/24/12

Material Types	Rate/UN	Vol/UY Tons	Tax	Tip	Tot
MT = 51 - Concrete-Contaminate	\$19.00/TN	20.00 16.45	\$0.00	\$312.55	\$312.55
MT =	/				
MT =	/				
MT =	/				

Gross 59600 lbs
Tare 26700 lbs
NET-> 32900 lbs 16.45Tons
Tip Amt 312.55 @ \$19.00/tn
Spec Amt 0.00
Tax Amt 0.00 0.0%

Amount \$312.55
Driver's Signature: [Signature]

36.24

East Coast Recycling
 4000 Blades Cut-Off Road
 Fort Pierce, Florida 34981
 (772) 461-5050

Truck # 125461

Bill Acct: MELVBUSH Haul Acct:
 MELVIN BUSH CONSTRUCTION, INC. JOB: CON CON

Cell # 1-11 : BRG ---In--- ---Out---
 Trailers : 7 - Dump Truck Date: 04/24/12 04/24/12
 TY : 100 - Inbound Waste PT : 1 - Charge Time: 09:55 10:02
 ID Out: NFF Check : # Ship Date 04/24/12

Material Types	Rate/UM	Vol/UM	Tons	Tax	Tip	Tot
NT = 51 - Concrete-Contaminate	\$19.00/TN	20.00	9.24	\$0.00	\$175.56	\$175.56
NT =	/					
NT =	/					
NT =	/					

Gross 45300 lbs Tip Amt 175.56 @ \$19.00/tn
 Tax 26820 lbs Spec Amt 0.00
 NET= 18480 lbs 9.24Tons Tax Amt 0.00 0.0%
 Amount \$175.56

Driver's Signatures: _____
 JOYSENSEN H ROBERT ROGERS TRB

\$ 19/TON x 1.175 ≈ \$22.30/TN ✓
 17.5%
 markup P

9.24

CO 1 11617

MELVIN BUSH CONSTRUCTION, INC.
Underground Utilities
2748 S.W. CASELLA ST.
PORT ST. LUCIE, FL 34953
Tel (772) 336-0623
Fax (772) 336-0488

20120008
12725-03

change order

ADDITIONAL WORK ORDER

TO

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

PHONE (772) 871-7399	DATE 5/30/2012
JOB NAME / LOCATION CITY OF PORT ST. LUCIE ST. LUCIE NORTH DRAINAGE BASIN SCHEDULE 4 / JORGENSEN ROAD	
CONTRACT / JOB NUMBER #20120008	JOB PHONE

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

ST. LUCIE NORTH DRAINAGE BASIN IMPROVEMENTS
SCH. 4 - C-108 CANAL STRUCTURE 8-02 JORGENSEN ROAD
DATE 4/27/12
PLAN MODIFICATION OF ARTICULATING CABLE BLOCK

1. REMOVE AND REINSTALL WELLPOINT SYSTEM
2. REMOVE AND RELOCATE EARTHEN DIKE

LABOR CREW	4 HRS	\$	201.31	\$	805.24
330 TRACKHOE	4 HRS	\$	125.00	\$	500.00
GRADALL	4 HRS	\$	110.00	\$	440.00
			TOTAL	\$	1,745.24

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 \$ **1,745.24**

Date of agreement: 5/25/2012	PREVIOUS CONTRACT AMOUNT	
Authorized Signature: <i>Melvin Bush</i> (CONTRACTOR)	REVISED CONTRACT TOTAL	\$1,745.24

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: _____



301 N.W. Flagler Avenue • Stuart, Florida 34994
 (772) 692-4344 • Fax: (772) 692-4341 • E-mail: captceinfo@gocaptec.com

ST. LUCIE NORTH (SLN) DRAINAGE IMPROVEMENTS

8-02 CONTROL STRUCTURE ACB MATS MODIFICATIONS

As requested by the City of Port St. Lucie Engineering Dept. staff, this summary provides CAPTEC's recommendation to repair erosion damage to the partially constructed Articulated Concrete Block (ACB) Mats at the 8-02 Control Structure caused by an afternoon rain storm on Tuesday, May 8, 2012. On the date of the rain storm, the concrete footing and the first section of ACB Mats adjacent to and downstream of the 8-02 Control Structure sheet pile weir had been installed and the seam was grouted between the footing and the ACB Mats along the full weir length. The storm runoff over topped the control structure weir and the discharge impact initially created a depression about one (1) ft deep on the channel side slopes adjacent to the sheet pile weir. After the contractor was instructed to open one of the operable gates to lower the upstream water level, a larger depression formed (about two (2) ft deep) in front of the open operable gate discharge pipe.

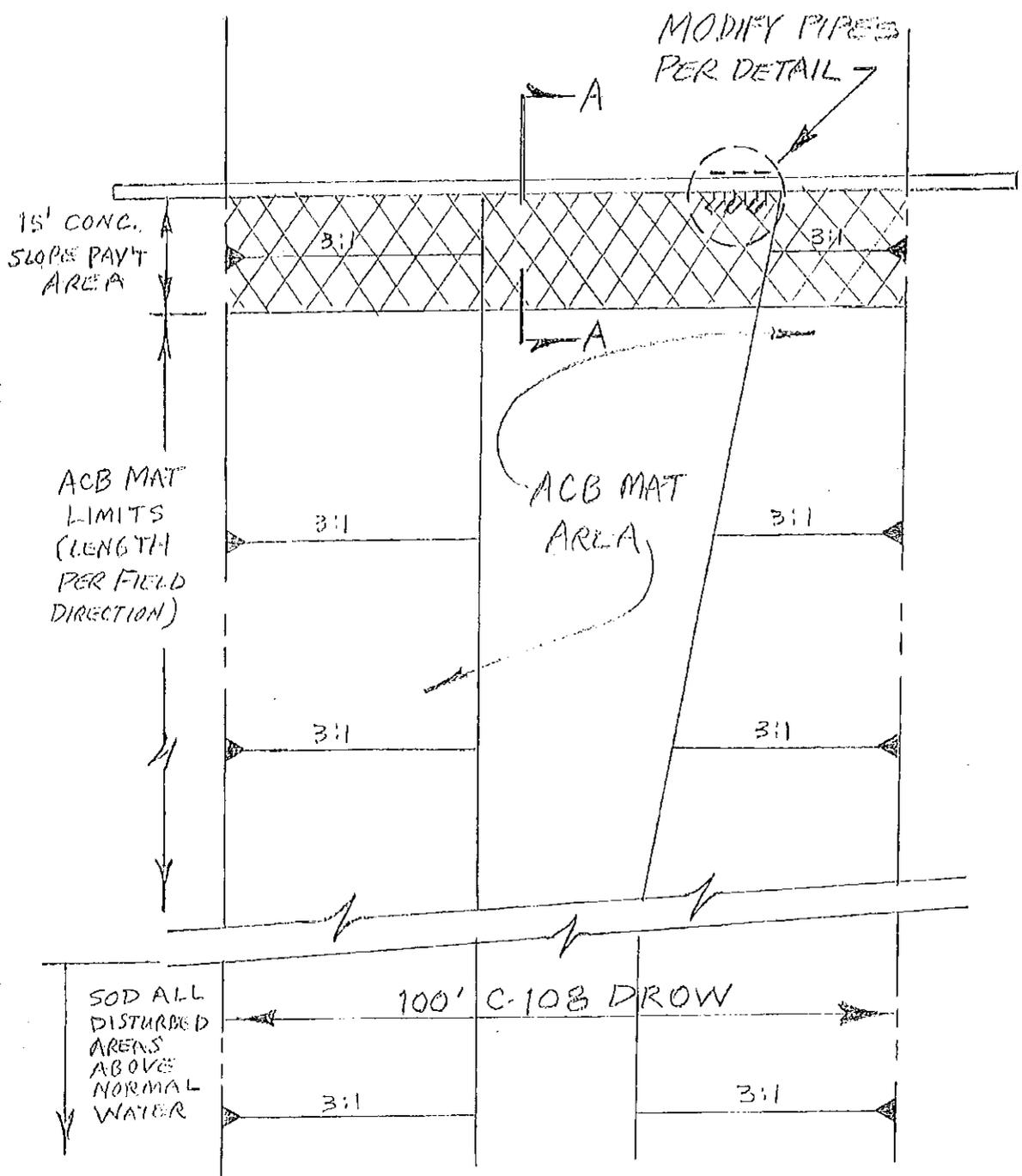
The mats were installed without the benefit of the Contractor's Geotechnical Engineering recommendation of the specific filter fabric required below the ACB Mats. The filter fabric recommendation has not been provided to date and is very critical for the use of the ACB Mats at the site. Before starting work on the 8-02 Control Structure, the Contractor was notified at the progress meeting that the work was being started at the Contractor's own risk. It should be noted that the lack of a Geotechnical Engineer's fabric recommendation may not be a cause of the erosion damages encountered, however this item must be addressed prior to any additional work on the ACB Mats.

CAPTEC recommends the following actions to repair the damages noted above and these measures are detailed in the sketches on the following pages:

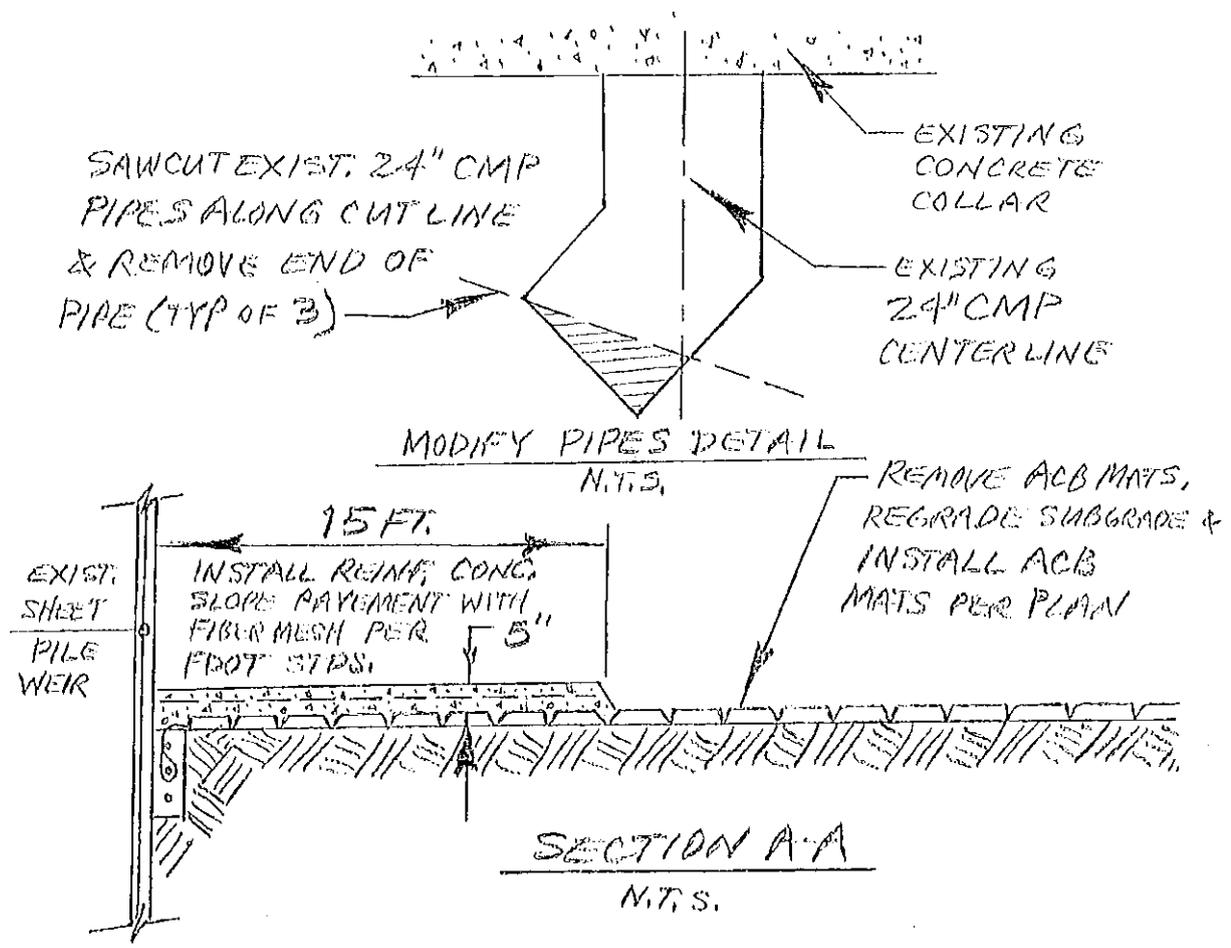
1. Remove the ACB Mats;
2. Cut existing CMP discharge pipes per detail;
3. Regrade and compact the eroded subgrade areas;
4. Layout the recommended filter fabric;
5. Re-install the ACB Mats per plan, and
6. Install 5" thick concrete slope pavement (with 10x10-6x6 WWF & fiber mesh concrete) on top of the ACB Mats (and filling all spaces between the blocks) for a 15 ft. distance on the downstream side of the 8-02 weir as shown on the sketches and details on the following pages.

The Contractor's Geotechnical Engineering recommendation of the specific filter fabric required below the ACB Mats must be provided or this work will also be performed at the Contractor's risk.

SLN 8-02 Control Structure ACB Mat Modifications 062112.docx



B-02 CONTROL STRUCTURE
ACB MAT MODIFICATIONS
PLAN
N.T.S.



NOTES:

1. CONCRETE SLOPE PAVEMENT SHALL BE CONSTRUCTED PER APPLICABLE FDOT STD. SPECIFICATIONS AND DESIGN STDS. (LATEST EDITION)
2. REINFORCING SHALL BE 10x10-6x6 W/MF.

B-02 CONTROL STRUCTURE
ACB MAT MODIFICATIONS

DETAILS
 N.T.S.

MELVIN BUSH CONSTRUCTION, INC.
Underground Utilities
2748 S.W. CASELLA ST.
PORT ST. LUCIE, FL 34953

20120008
12725-05

change order

ADDITIONAL WORK ORDER

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

TO

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

PHONE (772) 871-7399	DATE 6/5/2012
JOB NAME / LOCATION CITY OF PORT ST. LUCIE ST. LUCIE NORTH DRAINAGE BASIN SCHEDULE 1 1/ RUGBY DRIVE @ C-104 CANAL.	
CONTRACT / JOB NUMBER #20120008	JOB PHONE

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

ST. LUCIE NORTH DRAINAGE BASIN IMPROVEMENTS
SCHEDULE 11 / RUGBY DRIVE @ C-104 CANAL

ADDITIONAL TO CONTRACT

SCHEDULE 11 - RUGBY DRIVE @ C-104 CANAL
ON 5/31/12, MELVIN BUSH CONSTRUCTION, INC WAS INSTRUCTED BY
THE CITY OF PORT ST. LUCIE, (JOHN) TO GROUT FILL THE ACB MATS WITH CONCRETE

LABOR CREW	4 HRS	\$ 150.59	\$	602.36
CONCRETE	1 LS	\$ 50.00	\$	50.00
TOTAL CHANGE ORDER / ADDITIONAL TO CONTRACT				\$ 652.36

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 \$ 652.36

Date of agreement: 6/5/2012
Authorized Signature: *Melvin Bush*
(CONTRACTOR)

PREVIOUS CONTRACT AMOUNT	
REVISED CONTRACT TOTAL	\$652.36

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: _____

CO 1 160217

MELVIN BUSH CONSTRUCTION, INC.

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

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

20120008
12725-06

change order

ADDITIONAL WORK ORDER

TO

CITY OF PORT ST. LUCIE
121 SW PORT ST. LUCIE BLVD
PORT ST. LUCIE, FL 34984

PHONE (772) 871-7399	DATE 6/27/2012
JOB NAME / LOCATION CITY OF PORT ST. LUCIE ST. LUCIE NORTH DRAINAGE BASIN SCHEDULE 13/ WEST TORINO PKWY AT C-105 CANAL - PIPE 5-09	
CONTRACT / JOB NUMBER #20120008	JOB PHONE

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

ST. LUCIE NORTH DRAINAGE BASIN IMPROVEMENTS
SCHEDULE 13 / WEST TORINO PKWY @ C-105 CANAL - PIPE 5-09

ADDITIONAL TO CONTRACT

SCHEDULE 13 - WEST TORINO PKWY @ C-105 CANAL
CHANGE IN PIPE SIZE FROM 54" RCP TO 43 X 68 ERCP

INSTALL 43 X 68 ERCP	768 LF	\$ 216.78	\$ 166,487.04
CREDIT FOR 54" RCP	-931 LF	\$ 172.43	\$ (160,532.33)
TOTAL CHANGE ORDER / ADDITIONAL COST FOR PIPE			\$ 5,954.71

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		\$5,954.71
Date of agreement: 6/27/2012	PREVIOUS CONTRACT AMOUNT	
Authorized Signature: <i>Melvin Bush</i> (CONTRACTOR)	REVISED CONTRACT TOTAL	\$5,954.71

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: _____

CO 1 17012 17

PLAN SHEET MODIFICATION
PIPE AND HEADWALL ADJUSTMENTS
JUNE 25, 2012

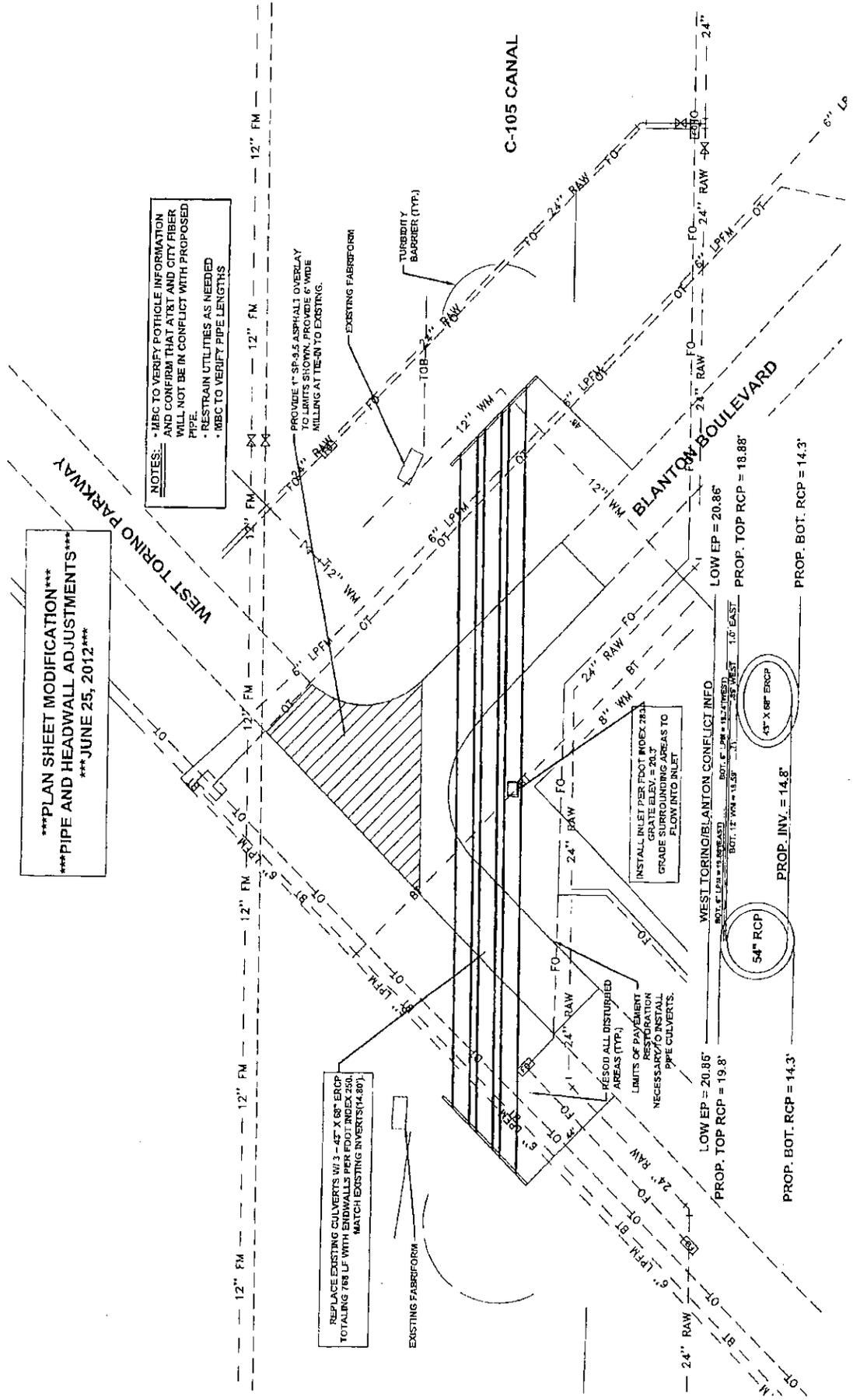
NOTES:
- ABC TO VERIFY POT-HOLE INFORMATION AND CONFIRM THAT A191 AND CITY FIBER WILL NOT BE IN CONFLICT WITH PROPOSED PIPE.
- RESTRAIN UTILITIES AS NEEDED
- ABC TO VERIFY PIPE LENGTHS

REPLACE EXISTING CULVERTS W/ 3 - 47' X 60" ERCP TOTALING 788 LF WITH ENDWALLS PER FDOT INDEX 250. MATCH EXISTING INVERTS (14.80').

INSTALL INLET PER FDOT INDEX 738. GRADE ELEV. 20.00. GRADE SURROUNDING AREAS TO FLOW INTO INLET.

RESURF ALL DISTURBED LIMITS OF PAVEMENT RESTORATION NECESSARY TO INSTALL PIPE CULVERTS.

WEST TORINO/BLANTON CONFLICT INFO
BOT. E. L.P.M. = 13.50' (EAST)
BOT. E. L.P.M. = 13.50' (WEST)
BOT. E. L.P.M. = 13.50' (WEST)
BOT. E. L.P.M. = 13.50' (WEST)



LOW EP = 20.86'
PROP. TOP RCP = 18.88'

PROP. BOT. RCP = 14.3'

PROP. INV. = 14.8'

PROP. BOT. RCP = 14.3'

