



Calvin, Giordano & Associates, Inc.

EXCEPTIONAL SOLUTIONS

July 1, 2013

Mr. Dominic Orlando, P.E.
Public Services Director
City of Dania Beach
100 West Dania Beach Boulevard
Dania Beach, Florida 33004

**RE: City of Dania Beach – Water and Force Main Subaqueous Crossing
Change Order No.1-Final
City Bid No. 11-002
CGA Project No. 09-2737**

Dear Mr. Orlando,

Transmitted herewith for your review are three (3) copies of Change Order No. 1-Final for the final quantities reconciliation and unforeseen utilities conflicts change order.

This reconciliation of quantities and additional work due to unforeseen conflicts with existing underground utilities, results in an increase to the contract in the amount of \$47,531.62 and changes the total contract amount from \$755,449.00 to \$802,980.62.

Upon completion of your review, please sign and date the second page of this letter and forward it along with the attached documents to the appropriate individuals. If you have any questions, please do not hesitate to call.
Sincerely,

CALVIN, GIORDANO & ASSOCIATES, INC.


Sabrina M. Baglieri
Director Construction Services

SMB

Attachments

cc: Maurice A. Hynes, Intercounty Engineering, Inc.
File

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1800 Eller Drive, Suite 600
Fort Lauderdale, FL 33316
Phone: 954.921.7781
Fax: 954.921.8807

www.calvin-giordano.com

CHANGE ORDER

No.1-Final

PROJECT: Water and Force Main Subaqueous Crossing

DATE OF ISSUANCE: 05/23/13

EFFECTIVE DATE: 05/23/12

OWNER: City of Dania Beach

OWNER CONTRACT NO.: 11-002

ENGINEER CONTRACT NO.: 09-2737

CONTRACTOR: Intercounty Engineering, Inc.

ENGINEER: Calvin, Giordano & Associates, Inc.

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

Description: Change Order No. 1-Final

Reason for Change Order: Final Reconciliation Quantities, and Additional Cost for conflicts with unknown existing underground utilities.

Attachments: See attached proposal

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price \$ 755,449.00	Original Contract Times Substantial Completion: 90 calendar days Ready for final payment: 120 calendar days days or dates
Net changes from previous Change Orders No. -0- No. -0- \$ 0.00	Net change from previous Change Orders No. -0- No. -0- 0* days
Contract Price prior to this Change Order \$ 755,449.00	Contract Times prior to this Change Order Substantial Completion: 90 calendar days Ready for final payment: 120 calendar days days or dates
Net increase of this Change Order \$ 47,531.62	Net Increase of this Change Order 31* days
Contract Price with all approved Change Orders \$ 802,980.62	Contract Times with all approved Change Orders Substantial Completion: 121 calendar days Ready for final payment: 151 calendar days days or dates

RECOMMENDED:

APPROVED:

ACCEPTED:

By: Jenna Martinetti, P.E.
Calvin, Giordano & Associates, Inc.

By: City of Dania Beach

By: Intercounty Engineering, Inc.

Date: 6.28.13

Date: P.F. Orlando 7/19/2013

Date: 6.24.13

* Non-Compensable



INTERCOUNTY ENGINEERING, INC.

1925 NW 18TH STREET
 POMPANO BEACH, FL 33069
 TEL: (954) 972-9800 FAX: (954) 974-0042

BILL TO: Calvin, Giordano and Associates, Inc.
 Attn.: Jenna Chamberlain, P. E.
 1800 Eller drive, Suite 600
 Ft. Lauderdale, FL 33316

DATE: 5/21/2013

PROJECT NO. Bid No. 11-002 WORK DATES: See below
 PROJECT NAME: **Water and Force Main Subaqueous Crossings**

REFERENCE: During the installation of both Water and Force Main pipe we encounter a lot of underground utilities that were unmark and unknown which force us to dig slower that it was estimated. This unforeseen condition affected our estimated performance, creating extra work and materials on the pipe installation.

CHANGE ORDER PROPOSAL #1 REVISED
WATER MAIN EXTRA WORK

1. INTERCOUNTY ENGINEERING, INC. LABOR:

Qty	Description:	Overtime	Straight	Pay rate	Extension
11/17/2011	While digging to install the Water Main at the North side of the project, We encounter an 8" sewer pipe which is in conflict with the new Water Main. This sewer pipe runs East to West, it was not shown on the project drawings and it was not located. Then, we exposed the 48" drainage pipe which is also in conflict with new Water Main for the Inspector/Engineer to see and advise. Later on the day City personnel cut and capped the 8" sewer line, at the West side of the Water Main. We spent 4 extra hours of work.				
1	Foreman	4		\$ 40.00	\$160.00
1	Operator	4		\$ 20.00	\$80.00
1	Skill Labor	4		\$ 18.00	\$72.00
1	Labor	4		\$ 15.00	\$60.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	4	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	4	hour		
1	Loader (Komatsu 250 or Volvo)	4	hour		
1	JCV Combination	4	hour		
1	Plate Compactor	4	hour		
1	Dump Truck		hour		
1	Road Plates		hour		
1	Light Tower		hour		
1	Submersible Pump	4	hour		
1	Generator	4	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	4	hour		
11/21/2011	Install 2 extra - 12"-45 Deg. MJ bend to cross with the Water Main the Drainage and sewer pipe at Station 26+63 approximately. We spent 4 extra hours of work.				
1	Foreman	4		\$ 40.00	\$160.00
1	Operator	4		\$ 20.00	\$80.00
1	Skill Labor	4		\$ 18.00	\$72.00
Item #	Material Description	Qty	Unit		
1	12"-45 deg. MJ bends for WM	2	ea		
2	12" megalug. Gasket & Acc.	4	ea		
3	10"-11.25 deg. MJ bend for FM		ea		
4	10"-45 deg. MJ bend for FM		ea		
5	10" megalug. Gasket & Acc.		ea		
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	4	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	4	hour		
1	Loader (Komatsu 250 or Volvo)	4	hour		
1	JCV Combination	4	hour		
1	Plate Compactor	4	hour		
1	Dump Truck		hour		
1	Road Plates		hour		
1	Light Tower		hour		
1	Submersible Pump	4	hour		
1	Generator	4	hour		

Item #	Subcontractor Description	Qty	Unit		
1	MOT	4	hour		
11/23/2011 Exposed the Sewer and drainage pipe at Station 26+63 approx., west side of 7th Avenue.					
1	Foreman	4	hour	\$ 40.00	\$160.00
1	Operator	4	hour	\$ 20.00	\$80.00
1	Skill Labor	4	hour	\$ 18.00	\$72.00
1	Labor	4	hour	\$ 15.00	\$60.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	4	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	4	hour		
1	Loader (Komatsu 250 or Volvo)	4	hour		
1	JCV Combination	4	hour		
1	Plate Compactor	4	hour		
1	Dump Truck		hour		
1	Road Plates		hour		
1	Light Tower		hour		
1	Submersible Pump	4	hour		
1	Generator	4	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	4	hour		
11/28/2011 We dug at the intersection of Taylor lane and NE 7th Avenue to locate the existing Water Main, so we can install the 8"x 8" tapping shown in the project drawings at station 23+41.01 and found out that the WM was not there. The water and sewer underground utilities were not located by the City of Dania Beach. We finally locate the Water Main around 5:00 PM. The existing WM was farther east of what is shown in the drawings. We spent 9 hour of extra work.					
1	Foreman	1	8	\$ 40.00	\$380.00
1	Operator	1	8	\$ 20.00	\$190.00
1	Skill Labor	1	8	\$ 18.00	\$171.00
1	Labor	1	8	\$ 15.00	\$142.50
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	9	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	9	hour		
1	Loader (Komatsu 250 or Volvo)	9	hour		
1	JCV Combination	9	hour		
1	Plate Compactor	9	hour		
1	Dump Truck	9	hour		
6	Road Plates (6x9)	54	hour		
1	Light Tower		hour		
1	Submersible Pump	9	hour		
1	Generator	9	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	9	hour		
11/29/2011 We dug 30 foot south of station 23+08 to find out that it will be impossible to install the water main closer to the fence due to the many unknown and unforeseen utilities that we encountered. We worked 2 extra hours, from 12:00 AM to 2:00 AM. Then we started the installation of the Water Main almost at the location shown in the project drawings. We installed 80 LF of 12" PVC pipe and poured flowable fill. Finally installed plates over the trench.					
1	Foreman	2	hour	\$ 40.00	\$80.00
1	Operator	2	hour	\$ 20.00	\$40.00
1	Skill Labor	2	hour	\$ 18.00	\$36.00
1	Labor	2	hour	\$ 15.00	\$30.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	2	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	2	hour		
1	Loader (Komatsu 250 or Volvo)	2	hour		
1	JCV Combination		hour		
1	Plate Compactor	2	hour		
1	Dump Truck	2	hour		
6	Road Plates (6x2)	12	hour		
3	Light Tower (3x 2)	6	hour		
1	Submersible Pump	2	hour		
1	Generator	2	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	2	hour		
12/6/2011 While installing the 2 12"-45 deg. MJ bends for WM, around Station 23+73.09 and 23+88.10, we encounter an old road concrete slab that have to be removed so we can install the 12"PVC pipe. We spent 4 extra hours since the time we discovered the concrete, exposed it and removed it.					
1	Foreman	4	hour	\$ 40.00	\$160.00

1	Operator	4	\$ 20.00	\$80.00
1	Skill Labor	4	\$ 18.00	\$72.00
1	Labor	4	\$ 15.00	\$60.00
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	4	hour	
1	Komatsu PC130 excavator	4	hour	
1	Hyundai excavator		hour	
1	Komatsu PC55	4	hour	
1	Loader (Komatsu 250 or Volvo)	4	hour	
1	JCV Combination		hour	
1	Plate Compactor	4	hour	
1	Dump Truck		hour	
10	Road Plates (10x 4)	40	hour	
1	Light Tower		hour	
1	Submersible Pump	4	hour	
1	Generator	4	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	4	hour	
12/7/2011	While installing the 12" PVC pipe around station 19+80 we encounter an old road concrete slab. After we got with the inspector and exposed the concrete slab, it was decided to remove it. We spent 2 extra hours since the time we discovered the concrete slab, exposed it and removed it.			
1	Foreman	2	\$ 40.00	\$80.00
1	Operator	2	\$ 20.00	\$40.00
1	Skill Labor	2	\$ 18.00	\$36.00
1	Labor	2	\$ 15.00	\$30.00
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	2	hour	
1	Komatsu PC130 excavator	2	hour	
1	Hyundai excavator		hour	
1	Komatsu PC55		hour	
1	Loader (Komatsu 250 or Volvo)	2	hour	
1	JCV Combination		hour	
1	Plate Compactor	2	hour	
1	Dump Truck		hour	
10	Road Plates (10x 2)	20	hour	
1	Light Tower		hour	
1	Submersible Pump	2	hour	
1	Generator	2	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	2	hour	
12/7/2012	A second crew was working at the south side of the project installing the tapping sleeves and tapping valves for both the Force Main and Water Main. The FM Tapping sleeve and tapping valve were installed. While digging to exposed the 12" DIP Water Main, we encounter an unknown and non located 8" PVC pipe. 4 hours later we found an 8" DIP Water Main farther South which was connected to the 8" PVC that we found early on the day. Since the tapping sleeve and tapping valve that we have to install were for a 12" DIP we could not installed them. The trench for the Water Main was cover with a road plate for the City and Engineer inspection and advise on how to proceed. We spent 4 extra hours of work searching for the 12' DIP WM.			
1	Foreman	4	\$ 40.00	\$160.00
1	Operator	4	\$ 20.00	\$80.00
1	Skill Labor	4	\$ 18.00	\$72.00
1	Labor	4	\$ 15.00	\$60.00
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	4	hour	
1	Komatsu PC130 excavator		hour	
1	Hyundai excavator		hour	
1	Komatsu PC55		hour	
1	Loader (Komatsu 250 or Volvo)		hour	
1	JCV Combination	4	hour	
1	Plate Compactor	4	hour	
1	Dump Truck		hour	
4	Road Plates (4x 4)	16	hour	
1	Light Tower		hour	
1	Submersible Pump	4	hour	
1	Generator	4	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	4	hour	
12/14/2011	Installed 1 - 12"x 4" Tee, 1 - 12"x 6" Tee, 1 - 6" gate valve, and approx. 120 LF of 12" PVC pipe. While installing the 12" PVC pipe we encountered a 2" water pipe which was not located and it was unknown. City of Dania was called, they provided the materials and we fixed the 2" PVC pipe. We lost approximately 3 hours since the time the pipe was hit, the City personnel came to site and bring the materials and finally fixed it by us.			
1	Foreman	3	\$ 40.00	\$120.00
1	Operator	3	\$ 20.00	\$60.00

1	Skill Labor	3	\$ 18.00	\$54.00
1	Labor	3	\$ 15.00	\$45.00
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	3	hour	
1	Komatsu PC130 excavator	3	hour	
1	Hyundai excavator		hour	
1	Komatsu PC55		hour	
1	Loader (Komatsu 250 or Volvo)	3	hour	
1	JCV Combination		hour	
1	Plate Compactor	3	hour	
1	Dump Truck		hour	
10	Road Plates (10x 3)	30	hour	
1	Light Tower		hour	
1	Submersible Pump	3	hour	
1	Generator	3	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	3	hour	
2/29/2012	We dug around station 11+22 and find out that there is a conflict with some unknown and not located utilities that we encountered. We wait about 1 hour for City personnel, who confirmed that the discovered pipes were 2 old water mains and a service. Then we have to extend the trench to the west to re-route the WM and to install the ARV manhole. This will required 2 - 12" - 45 deg. MJ bends. The 2 bends are extra to the contract and we spent 3 extra hours today.			
1	Foreman	3	\$ 40.00	\$120.00
1	Operator	3	\$ 20.00	\$60.00
1	Skill Labor	3	\$ 18.00	\$54.00
1	Labor	3	\$ 15.00	\$45.00
Item #	Material Description	Qty	Unit	
1	12"-45 deg. MJ bends for WM	2	ea	
2	12" megalug. Gasket & Acc.	4	ea	
3	10"-11.25 deg. MJ bend for FM		ea	
4	10"-45 deg. MJ bend for FM		ea	
5	10" megalug. Gasket & Acc.		ea	
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	3	hour	
1	Komatsu PC130 excavator	3	hour	
1	Hyundai excavator	3	hour	
1	Komatsu PC55		hour	
1	Loader (Komatsu 250 or Volvo)	3	hour	
1	JCV Combination		hour	
1	Plate Compactor	3	hour	
1	Dump Truck		hour	
8	Road Plates (8x 3)	24	hour	
1	Light Tower		hour	
1	Submersible Pump	3	hour	
1	Generator	3	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	3	hour	
3/1/2012	Install 1 - 12"-45 deg. MJ bend at station 11+20. This is an extra to the contract. Trench was done already in previous day.			
1	Foreman	0.5	\$ 40.00	\$20.00
1	Operator	0.5	\$ 20.00	\$10.00
1	Skill Labor	0.5	\$ 18.00	\$9.00
1	Labor	0.5	\$ 15.00	\$7.50
Item #	Material Description	Qty	Unit	
1	12"-45 deg. MJ bends for WM	1	ea	
2	12" megalug. Gasket & Acc.	2	ea	
3	10"-11.25 deg. MJ bend for FM		ea	
4	10"-45 deg. MJ bend for FM		ea	
5	10" megalug. Gasket & Acc.		ea	
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	0.5	hour	
1	Komatsu PC130 excavator	0.5	hour	
1	Hyundai excavator	0.5	hour	
1	Komatsu PC55		hour	
1	Loader (Komatsu 250 or Volvo)	0.5	hour	
1	JCV Combination		hour	
1	Plate Compactor	0.5	hour	
1	Dump Truck		hour	
8	Road Plates (8x 0.5)	4	hour	
1	Light Tower		hour	
1	Submersible Pump	0.5	hour	
1	Generator	0.5	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	0.5	hour	

3/5/2012 Set the ARV manhole box at Station 11+20 and install the WM pipe thru the box and				
1 -12"-45 deg. MJ bend at the South side of the box. Mud the pipe at the box and secure the site. The 1 - 12"-45 deg. MJ bend is an extra to our contract.				
1	Foreman	0.5	\$ 40.00	\$20.00
1	Operator	0.5	\$ 20.00	\$10.00
1	Skill Labor	0.5	\$ 18.00	\$9.00
1	Labor	0.5	\$ 15.00	\$7.50
Item #	Material Description	Qty	Unit	
1	12"-45 deg. MJ bends for WM	1	ea	
2	12" megalug. Gasket & Acc.	2	ea	
3	10"-11.25 deg. MJ bend for FM		ea	
4	10"-45 deg. MJ bend for FM		ea	
5	10" megalug. Gasket & Acc.		ea	
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	0.5	hour	
1	Komatsu PC130 excavator		hour	
1	Hyundai excavator	0.5	hour	
1	Komatsu PC55		hour	
1	Loader (Komatsu 250 or Volvo)		hour	
1	JCV Combination	0.5	hour	
1	Plate Compactor	0.5	hour	
1	Dump Truck		hour	
8	Road Plates (8x 0.5)	4	hour	
1	Light Tower		hour	
1	Submersible Pump	0.5	hour	
1	Generator	0.5	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	0.5	hour	
6/14/2012 Install an extra 2" water service at station 16+22, towards West (to Dania Cut Shipyard).				
1	Foreman	4	\$ 40.00	\$160.00
1	Operator	4	\$ 20.00	\$80.00
1	Skill Labor	4	\$ 18.00	\$72.00
1	Labor	4	\$ 15.00	\$60.00
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	4	hour	
1	Komatsu PC130 excavator		hour	
1	Hyundai excavator		hour	
1	Komatsu PC55	4	hour	
1	Loader (Komatsu 250 or Volvo)		hour	
1	JCV Combination	4	hour	
1	Plate Compactor	4	hour	
1	Dump Truck		hour	
4	Road Plates (4x 4)	16	hour	
1	Light Tower		hour	
1	Submersible Pump	4	hour	
1	Generator	4	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	4	hour	
				Subtotal \$4,078.50
				50% burden \$2,039.25

Subtotal \$6,117.75

2. INTERCOUNTY ENGINEERING, INC. MATERIAL:

Item #	Description	Qty	Unit	Price	Extension
1	12"-45 deg. MJ bends for WM	2	ea	\$ 145.00	\$290.00
2	12" megalug. Gasket & Acc.	4	ea	\$ 87.00	\$348.00
3	10"-11.25 deg. MJ bend for FM	0	ea	\$ 375.00	\$0.00
4	10"-45 deg. MJ bend for FM	0	ea	\$ 375.00	\$0.00
5	10" megalug. Gasket & Acc.	0	ea	\$ 77.00	\$0.00
					Subtotal \$638.00
					6% sales tax \$38.28

Subtotal \$676.28

3. INTERCOUNTY ENGINEERING, INC. EQUIPMENT:

Qty	Description	Qty	Unit	Rate	Extension
1	Pick up Truck w/ Tools	44	hour	\$ 23.30	\$1,025.20
1	Komatsu PC130 excavator	12.5	hour	\$ 84.35	\$1,054.38
1	Hyundai excavator	4	hour	\$ 48.10	\$192.40
1	Komatsu PC55	31	hour	\$ 39.75	\$1,232.25
1	Loader (Komatsu 250 or Volvo)	35.5	hour	\$ 58.55	\$2,078.53
1	JCB Combination	29.5	hour	\$ 41.90	\$1,236.05
1	Plate Compactor	44	hour	\$ 20.20	\$888.80
1	Dump Truck	11	hour	\$ 83.50	\$918.50
1	Road Plates	220	hour	\$ 3.00	\$660.00
1	Light Tower	6	hour	\$ 44.48	\$266.88
1	Submersible Pump	44	hour	\$ 4.60	\$202.40

1	Generator	44	hour	\$ 5.90	\$259.60
Subtotal					\$10,014.98

4. INTERCOUNTY ENGINEERING, INC. SUBCONTRACTORS:

Item #	Description	Qty	Unit	Rate	Extension
1	MOT	44	hour	\$ 1.08	\$47.30
Subtotal					\$47.30

Labor	\$6,117.75
Materials	\$676.28
Contractors Equipment	\$10,014.98
Subcontractors	\$47.30
Sub Total	\$16,856.31
O & P 15% of sub total	\$2,528.45
	\$19,384.76
2.5% bond costs	\$484.62
Water Main Total =	\$19,869.38

Total money request for the extra work installing the Water Main =	\$19,869.38
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FORCE MAIN EXTRA WORK

1. INTERCOUNTY ENGINEERING, INC. LABOR:

Qty	Description:	Overtime	Straight	Pay rate	Extension
12/15/2011 While doing a digging exploration for the Force Main at Dania Cut we hit a 2' water pipe which was unknown and not located . It took 2 extra hours to fixed it.					
1	Foreman	2		\$ 40.00	\$80.00
1	Operator	2		\$ 20.00	\$40.00
1	Skill Labor	2		\$ 18.00	\$36.00
1	Labor	2		\$ 15.00	\$30.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	2	hour		
1	Komatsu PC130 excavator	2	hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	2	hour		
1	Loader (Komatsu 250 or Volvo)	2	hour		
1	JCV Combination		hour		
1	Plate Compactor	2	hour		
1	Dump Truck		hour		
10	Road Plates (10x 2)	20	hour		
1	Light Tower		hour		
1	Submersible Pump	2	hour		
1	Generator	2	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	2	hour		
12/19/2011 We were digging at the NW corner of the intersection of Taylor Lane and NE 7th Avenue and due to many unforeseen, unknown and not located underground utilities (a lot of cables) we were able to install only 20 foot of 10" PVC pipe.					
1	Foreman	7		\$ 40.00	\$280.00
1	Operator	7		\$ 20.00	\$140.00
1	Skill Labor	7		\$ 18.00	\$126.00
1	Labor	7		\$ 15.00	\$105.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	7	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	7	hour		
1	Loader (Komatsu 250 or Volvo)	7	hour		
1	JCV Combination	7	hour		
1	Plate Compactor	7	hour		
1	Dump Truck		hour		
10	Road Plates (10x 7)	70	hour		
1	Light Tower		hour		
1	Submersible Pump	7	hour		
1	Generator	7	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	7	hour		
12/20/2011 Crossing Taylor Lane to install the FM was very slow due to all the unknown and non located underground utilities encountered on this area the previous day. Furthermore, when we were half way across Taylor Lane, we encounter an unknown concrete duct bank that was not located. This duct bank did not allow us to install the pipe per project drawings, we have to back filled most of this work and re-route the pipe. We spent 5 extra hours of work.					
1	Foreman	5		\$ 40.00	\$200.00

1	Operator	5	\$ 20.00	\$100.00
1	Skill Labor	5	\$ 18.00	\$90.00
1	Labor	5	\$ 15.00	\$75.00
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	5	hour	
1	Komatsu PC130 excavator		hour	
1	Hyundai excavator		hour	
1	Komatsu PC55	5	hour	
1	Loader (Komatsu 250 or Volvo)	5	hour	
1	JCV Combination		hour	
1	Plate Compactor	5	hour	
1	Dump Truck		hour	
10	Road Plates (10x 7)	50	hour	
1	Light Tower	5	hour	
1	Submersible Pump	5	hour	
1	Generator	5	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	5	hour	
12/22/2011	Once again, due to all the unknown and non located underground utilities encounter on this area of work we dug very slowly. We installed 40 LF of PVC pipe, and we have to install 2 new 10"-45 deg. MJ bend because the existing Water Main was on the way, we went under the Water Main. The 2-10"-45 deg. MJ bend are not extra to the contract. We spent 8 extra hours of work.			
1	Foreman	8	\$ 40.00	\$320.00
1	Operator	8	\$ 20.00	\$160.00
1	Skill Labor	8	\$ 18.00	\$144.00
1	Labor	8	\$ 15.00	\$120.00
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	8	hour	
1	Komatsu PC130 excavator		hour	
1	Hyundai excavator		hour	
1	Komatsu PC55	8	hour	
1	Loader (Komatsu 250 or Volvo)	8	hour	
1	JCV Combination		hour	
1	Plate Compactor	8	hour	
1	Dump Truck		hour	
14	Road Plates (14x 8)	112	hour	
1	Light Tower		hour	
1	Submersible Pump	8	hour	
1	Generator	8	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	8	hour	
12/28/2011	Slowly finished digging in the ATT fence area. Then installed 40' of 10" PVC pipe and install 2 new 10"-45 deg. MJ bend to avoid the ATT manhole which was on the way, we went E-SE. The 2 - 10"- 45 deg. MJ bend is an extra to our contract. We spent 7 extra hours.			
1	Foreman	7	\$ 40.00	\$280.00
1	Operator	7	\$ 20.00	\$140.00
1	Skill Labor	7	\$ 18.00	\$126.00
1	Labor	7	\$ 15.00	\$105.00
Item #	Material Description	Qty	Unit	
1	12"-45 deg. MJ bends for WM		ea	
2	12" megalug. Gasket & Acc.		ea	
3	10"-11.25 deg. MJ bend for FM		ea	
4	10"-45 deg. MJ bend for FM	2	ea	
5	10" megalug. Gasket & Acc.	4	ea	
Qty	Equipment Description	Qty	Unit	
1	Pick up Truck w/ Tools	7	hour	
1	Komatsu PC130 excavator		hour	
1	Hyundai excavator		hour	
1	Komatsu PC55	7	hour	
1	Loader (Komatsu 250 or Volvo)	7	hour	
1	JCV Combination		hour	
1	Plate Compactor	7	hour	
1	Dump Truck		hour	
14	Road Plates (14x 7)	98	hour	
1	Light Tower		hour	
1	Submersible Pump	7	hour	
1	Generator	7	hour	
Item #	Subcontractor Description	Qty	Unit	
1	MOT	7	hour	
12/29/2011	While continue digging south for the 10" FM, at station 22+75 we encounter a sewer manhole. We called the inspector and he instructed us to install the pipe 3 foot East of the sewer manhole. It requires 2 extra 10"-45 MJ bend which were installed. The fittings are extra to the contract.			

Item #	Material Description	Qty	Unit		
1	12"-45 deg. MJ bends for WM		ea		
2	12" megalug. Gasket & Acc.		ea		
3	10"-11.25 deg. MJ bend for FM		ea		
4	10"-45 deg. MJ bend for FM	2	ea		
5	10" megalug. Gasket & Acc.	4	ea		
1/4/2012	Continue digging for the FM and at station 20+80 (around 2:30 PM) we found an ATT duct bank that was running parallel to the trench and if we continue digging it will be a conflict. We spent 4 extra hours of work because on 1/5/12 it was decided to install the FM 7 FT to the East.				
1	Foreman		4	\$ 40.00	\$160.00
1	Operator		4	\$ 20.00	\$80.00
1	Skill Labor		4	\$ 18.00	\$72.00
1	Labor		4	\$ 15.00	\$60.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	4	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	4	hour		
1	Loader (Komatsu 250 or Volvo)	4	hour		
1	JCV Combination		hour		
1	Plate Compactor	4	hour		
1	Dump Truck		hour		
18	Road Plates (18x 8)	72	hour		
1	Light Tower		hour		
1	Submersible Pump	4	hour		
1	Generator	4	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	4	hour		
1/5/2012	After meeting with David Robbins he instructed us to dig to pass the ATT duct bank and uncover the existing FM. Then David R. came back latter with the Engineer and instructed us to move the new Force main 7 foot to the East and then when past the ATT duct, bring back the FM and continue on top of the existing FM. Due to the nature of the conflict we used 3 different machines to be able to dig the trench. We spent 8 extra hours of work.				
1	Foreman		8	\$ 40.00	\$320.00
1	Operator		8	\$ 20.00	\$160.00
1	Skill Labor		8	\$ 18.00	\$144.00
1	Labor		8	\$ 15.00	\$120.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	8	hour		
1	Komatsu PC130 excavator	8	hour		
1	Hyundai excavator	8	hour		
1	Komatsu PC55	8	hour		
1	Loader (Komatsu 250 or Volvo)	8	hour		
1	JCV Combination		hour		
1	Plate Compactor	8	hour		
1	Dump Truck		hour		
18	Road Plates (18x 8)	144	hour		
1	Light Tower		hour		
1	Submersible Pump	8	hour		
1	Generator	8	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	8	hour		
1/6/2012	Install 2 - 10"-45 deg. MJ bend and 160' of 10" PVC pipe. The 2 - 10"-45 deg. MJ bends are extra to our contract. Bends are around Station 20+70.				
1	Foreman		2	\$ 40.00	\$80.00
1	Operator		2	\$ 20.00	\$40.00
1	Skill Labor		2	\$ 18.00	\$36.00
1	Labor		2	\$ 15.00	\$30.00
Item #	Material Description	Qty	Unit		
1	12"-45 deg. MJ bends for WM		ea		
2	12" megalug. Gasket & Acc.		ea		
3	10"-11.25 deg. MJ bend for FM		ea		
4	10"-45 deg. MJ bend for FM	2	ea		
5	10" megalug. Gasket & Acc.	4	ea		
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	2	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator	2	hour		
1	Komatsu PC55		hour		
1	Loader (Komatsu 250 or Volvo)	2	hour		
1	JCV Combination		hour		
1	Plate Compactor	2	hour		
1	Dump Truck		hour		
18	Road Plates (18x 2)	36	hour		

1	Light Tower		hour		
1	Submersible Pump	2	hour		
1	Generator	2	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	2	hour		
1/10/2012	Dug 100 foot of new trench but it was done very slowly due to the many unknown utilities on the way. We spent 6 extra hours of work today.				
1	Foreman		6	\$ 40.00	\$240.00
1	Operator		6	\$ 20.00	\$120.00
1	Skill Labor		6	\$ 18.00	\$108.00
1	Labor		6	\$ 15.00	\$90.00
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	6	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator	6	hour		
1	Komatsu PC55	6	hour		
1	Loader (Komatsu 250 or Volvo)	6	hour		
1	JCV Combination		hour		
1	Plate Compactor	6	hour		
1	Dump Truck		hour		
18	Road Plates (18x 6)	108	hour		
1	Light Tower		hour		
1	Submersible Pump	6	hour		
1	Generator	6	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	6	hour		
1/11/2012	Install 2 - 10"-45 deg. MJ bends. The bends are extra to the contract. Since the trench was dug already we install the bends in 2 hours.				
1	Foreman		2	\$ 40.00	\$80.00
1	Operator		2	\$ 20.00	\$40.00
1	Skill Labor		2	\$ 18.00	\$36.00
1	Labor		2	\$ 15.00	\$30.00
Item #	Material Description	Qty	Unit		
1	12"-45 deg. MJ bends for WM		ea		
2	12" megalug. Gasket & Acc.		ea		
3	10"-11.25 deg. MJ bend for FM		ea		
4	10"-45 deg. MJ bend for FM	2	ea		
5	10" megalug. Gasket & Acc.	4	ea		
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	2	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator	2	hour		
1	Komatsu PC55		hour		
1	Loader (Komatsu 250 or Volvo)	2	hour		
1	JCV Combination		hour		
1	Plate Compactor	2	hour		
1	Dump Truck		hour		
18	Road Plates (18x 2)	36	hour		
1	Light Tower		hour		
1	Submersible Pump	2	hour		
1	Generator	2	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	2	hour		
1/18/2012	Exploratory digging south of Station 17+80. We found that there are many conflicts to install the new FM per drawings, so it was decided to explore the East side. We spend 5.5 extra hours.				
1	Foreman		5.5	\$ 40.00	\$220.00
1	Operator		5.5	\$ 20.00	\$110.00
1	Skill Labor		5.5	\$ 18.00	\$99.00
1	Labor		5.5	\$ 15.00	\$82.50
Qty	Equipment Description	Qty	Unit		
1	Pick up Truck w/ Tools	5.5	hour		
1	Komatsu PC130 excavator		hour		
1	Hyundai excavator		hour		
1	Komatsu PC55	5.5	hour		
1	Loader (Komatsu 250 or Volvo)	5.5	hour		
1	JCV Combination		hour		
1	Plate Compactor	5.5	hour		
1	Dump Truck		hour		
14	Road Plates (14x 5.5)	77	hour		
1	Light Tower		hour		
1	Submersible Pump	5.5	hour		
1	Generator	5.5	hour		
Item #	Subcontractor Description	Qty	Unit		
1	MOT	5.5	hour		

Subtotal	\$5,254.50
50% burden	\$2,627.25
Subtotal	\$7,881.75

2. INTERCOUNTY ENGINEERING, INC. MATERIAL:

Item #	Description	Qty	Unit	Price	Extension
1	12"-45 deg. MJ bends for WM	0	ea	\$ 145.00	\$0.00
2	12" megalug. Gasket & Acc.	0	ea	\$ 87.00	\$0.00
3	10"-11.25 deg. MJ bend for FM	0	ea	\$ 375.00	\$0.00
4	10"-45 deg. MJ bend for FM	6	ea	\$ 375.00	\$2,250.00
5	10" megalug. Gasket & Acc.	14	ea	\$ 77.00	\$1,078.00
Subtotal					\$2,250.00
6% sales tax					\$135.00
Subtotal					\$2,385.00

3. INTERCOUNTY ENGINEERING, INC. EQUIPMENT:

Qty	Description	Qty	Unit	Rate	Extension
1	Pick up Truck w/ Tools	56.5	hour	\$ 23.30	\$1,316.45
1	Komatsu PC130 excavator	10	hour	\$ 84.35	\$843.50
1	Hyundai excavator	18	hour	\$ 48.10	\$865.80
1	Komatsu PC55	52.5	hour	\$ 39.75	\$2,086.88
1	Loader (Komatsu 250 or Volvo)	56.5	hour	\$ 58.55	\$3,308.08
1	JCB Combination	7	hour	\$ 41.90	\$293.30
1	Plate Compactor	56.5	hour	\$ 20.20	\$1,141.30
1	Dump Truck	0	hour	\$ 83.50	\$0.00
1	Road Plates	823	hour	\$ 3.00	\$2,469.00
1	Light Tower	5	hour	\$ 44.48	\$222.40
1	Submersible Pump	56.5	hour	\$ 4.60	\$259.90
1	Generator	56.5	hour	\$ 5.90	\$333.35
Subtotal					\$13,139.95

4. INTERCOUNTY ENGINEERING, INC. SUBCONTRACTORS:

Item #	Description	Qty	Unit	Rate	Extension
1	MOT	56.5	hour	\$ 1.08	\$60.74
Subtotal					\$60.74

Labor	\$7,881.75
Materials	\$2,385.00
Contractors Equipment	\$13,139.95
Subcontractors	\$60.74
Sub Total	\$23,467.44
O & P 15% of sub total	\$3,520.12
	\$26,987.55
2.5% bond costs	\$674.69
Force Main Total =	\$27,662.24

Total money request for the extra work installing the Force Main =	\$27,662.24
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*** In addition to the above cost, we would like to request

31.00	calendar day extension to our contract.
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Total money request for the extra work installing the Water Main & the Force Main =	\$47,531.62
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