

**CHANGE ORDER**

Order No. 2

Date: January 6, 2016

Agreement Date: September 1, 2015

NAME OF PROJECT: Sanitary Sewer Replacement - 3<sup>rd</sup> Street and 10<sup>th</sup> Avenue

OWNER: City of Rochelle

CONTRACTOR: Martin & Company Excavating

The following changes are hereby made to the CONTRACT DOCUMENTS:

See attached justification.

Justification:

See attached justification.

Change to CONTRACT PRICE:

Original CONTRACT PRICE \$ 309,102.64

Current CONTRACT PRICE adjusted by previous CHANGE ORDER \$ 426,119.64

The CONTRACT PRICE due to this CHANGE ORDER will be (increased) (~~decreased~~) by: \$ 76,762.55

The new CONTRACT PRICE including this CHANGE ORDER will be \$ 502,882.19

Change to CONTRACT TIME:

Original CONTRACT SUBSTANTIAL COMPLETION DATE: November 14, 2015

Original CONTRACT FINAL COMPLETION DATE: December 14, 2015

Current CONTRACT SUBSTANTIAL COMPLETION DATE  
Adjusted by previous CHANGE ORDER: November 28, 2015

Current CONTRACT FINAL COMPLETION DATE  
Adjusted by previous CHANGE ORDER: December 28, 2015

The CONTRACT TIME will be (~~increased~~) (~~decreased~~) by 0 Calendar days.

The new CONTRACT SUBSTANTIAL COMPLETION DATE: November 28, 2015

The new CONTRACT FINAL COMPLETION DATE: December 28, 2015

Approvals Required:

To be effective, this ORDER must be approved by the Federal Agency if it changes the scope or objective of the PROJECT, or as may otherwise be required by the SUPPLEMENTAL GENERAL CONDITIONS.

Contractor: Martin & Company Excavating By: \_\_\_\_\_  
Engineer: Willett, Hofmann & Associates, Inc. By: \_\_\_\_\_  
Owner: City of Rochelle By: \_\_\_\_\_

1. Hospital Sanitary Sewer Service Connection

Change: Add connection to sanitary sewer service line in turn around driveway.

Justification: A sanitary sewer service line from the southwest corner of the hospital was not accounted for in the original design and needed to be tied into the new sanitary sewer line on 3<sup>rd</sup> Street. The additional work included setting a new manhole, installing approximately 44 L.F. of 10" sanitary sewer, and making the sanitary sewer connection to the new manhole complete with all appurtenances and surface restoration.

Cost Change: The cost for the additional work is \$6,434.86.

2. Pavement Replacement

Change: Full width replacement of hot-mix asphalt on 3<sup>rd</sup> Street from 9<sup>th</sup> Avenue to 10<sup>th</sup> Avenue and on 10<sup>th</sup> Avenue from 3<sup>rd</sup> Street to 2<sup>nd</sup> Street.

Justification: After the addition of the watermain replacement there was a small amount of original pavement left on 3<sup>rd</sup> Street. After discussions with the City it was decided to do a full width street repaving. The City also decided to mill and resurface the north side of 10<sup>th</sup> Avenue to minimize any future closures for street restoration. This change includes the deletion of the pavement replacement items from the original contract as well as the watermain replacement.

Cost Change: The cost for the additional work is \$187,659.61 as detailed in Exhibit A.

3. Watermain Final Quantity Adjustment

Change: Adjustment of the Change Order No. 1 quantities based on final installed quantities

Justification: See Exhibit B for cost adjustment table.

Cost Change: The cost savings for the quantity adjustment is \$30,940.00.

4. Additional Breaker Run Base

Change: Excavate unsuitable base material and replace with breaker run material.

Justification: Soft, unsuitable base material was found under the existing road. The unsuitable material had to be removed and replaced with material that would provide a stable foundation for the new road.

Cost Change: The cost for the additional work is \$4,000.08 as detailed below:

Earth Excavation; 50.1 C.Y. x \$46.00/S.Y. = \$2,304.60

Breaker Run: 85.2 Ton x \$19.90/Ton = \$1,695.48

5. Additional Curb and Gutter and Sidewalk Replacement for Watermain Replacement

Change: Include curb and gutter and sidewalk replacement in the watermain replacement.

Justification: Curb and gutter and sidewalk was damaged during the watermain replacement and needed to be replaced.

Cost Change: The cost for the additional work is \$5,903.50.

6. Additional Items Requested by Public Works

Change: Additional sidewalk replacement and curb and gutter replacement requested by the Department of Public Works.

Justification: During construction the City decided to address some additional work items while the road was under construction rather than at a later date.

Cost Change: The cost for the additional work is \$3,531.30.

7. Final Pay Quantity Adjustments

Change: Adjustment of contract quantities that were adjusted during construction.

Justification: See attached Exhibit C for cost adjustment table.

Cost Change: The cost savings for the quantity adjustment is \$99,826.80.

City of Rochelle  
 3rd Street and 10th Avenue Sanitary Sewer Replacement  
 Pavement Restoration

1055D15  
 Exhibit A

**FULL WIDTH PAVEMENT REPLACEMENT - CONSTRUCTION QUANTITIES**

<b>Sanitary Sewer Pavement Replacement</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
Earth Excavation (8")	83.70	C.Y.	\$ 46.00	\$ 3,850.20
Earth Excavation (5")	261.50	C.Y.	\$ 46.00	\$ 12,029.00
Aggregate Base Course, Type B (8")	171.58	Ton	\$ 19.10	\$ 3,277.18
HMA Binder Course, 3"	377.33	Ton	\$ 146.00	\$ 55,090.18
HMA Surface Course, 2"	236.45	Ton	\$ 147.25	\$ 34,817.26
Bituminous Materials (Prime Coat)	0	Lb.	\$ 0.98	\$ -
<b>Total</b>				<b>\$ 109,063.82</b>

<b>Watermain Pavement Replacement</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
Earth Excavation (8")	39.20	C.Y.	\$ 46.00	\$ 1,803.20
Earth Excavation (5")	86.54	C.Y.	\$ 46.00	\$ 3,980.84
Aggregate Base Course, Type B (8")	80.36	Ton	\$ 19.10	\$ 1,534.88
HMA Binder Course, 3"	125.78	Ton	\$ 146.00	\$ 18,363.88
HMA Surface Course, 2"	78.82	Ton	\$ 147.25	\$ 11,606.25
Bituminous Materials (Prime Coat)	0.00	Lb.	\$ 0.98	\$ -
<b>Total</b>				<b>\$ 37,289.04</b>

<b>Department of Public Works - Street Improvements</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
Earth Excavation (8")	87.10	C.Y.	\$ 46.00	\$ 4,006.60
Earth Excavation (5")	54.35	C.Y.	\$ 46.00	\$ 2,500.10
Aggregate Base Course, Type B (8")	178.56	Ton	\$ 19.10	\$ 3,410.50
Surface Milling, 2"	533.00	S.Y.	\$ 7.50	\$ 3,997.50
HMA Binder Course, 3"	65.50	Ton	\$ 146.00	\$ 9,563.00
HMA Surface Course, 2"	105.80	Ton	\$ 147.25	\$ 15,579.05
Storm Manhole Casting w/ Lid	3.00	Each	\$ 750.00	\$ 2,250.00
Bituminous Materials (Prime Coat)	0.00	Lb.	\$ 0.98	\$ -
<b>Total</b>				<b>\$ 41,306.75</b>

<b>Total</b>	<b>\$ 187,659.61</b>
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City of Rochelle  
3rd Street Watermain Replacement - 2015

Exhibit B

**Final Quantities and Cost Adjustment Table for Original Bid Items**

Item	Units	Unit Price	Quantities		Original Contract Cost	Final Contract Cost	Cost Adjustment	
			Plan	Final			Increase	Decrease
Watermain, 6" Dia.	L.F.	\$ 84.00	474	474	\$ 39,816.00	\$ 39,816.00	\$ -	\$ -
Watermain Quality Casing Pipe, 12" Dia.	L.F.	\$ 105.00	40	35	\$ 4,200.00	\$ 3,675.00	\$ -	\$ (525.00)
Watermain Quality Storm Sewer	L.F.	\$ 71.00	31	26	\$ 2,201.00	\$ 1,846.00	\$ -	\$ (355.00)
Gate Valve, 6"	L.F.	\$ 1,850.00	6	5	\$ 11,100.00	\$ 9,250.00	\$ -	\$ (1,850.00)
Tracer Wire Access Box	L.F.	\$ 300.00	2	2	\$ 600.00	\$ 600.00	\$ -	\$ -
1/8 Bend, 6" Dia.	L.F.	\$ 880.00	2	3	\$ 1,760.00	\$ 2,640.00	\$ 880.00	\$ -
Cross, 6" x 6"	Each	\$ 2,435.00	1	1	\$ 2,435.00	\$ 2,435.00	\$ -	\$ -
Tee, 6" x 6"	Each	\$ 1,010.00	2	2	\$ 2,020.00	\$ 2,020.00	\$ -	\$ -
Plug, 6" Dia.	Each	\$ 505.00	4	2	\$ 2,020.00	\$ 1,010.00	\$ -	\$ (1,010.00)
Linestop, 6" Dia.	Each	\$ 5,600.00	2	1	\$ 11,200.00	\$ 5,600.00	\$ -	\$ (5,600.00)
Fire Hydrant Reconnection	C.Y.	\$ 3,100.00	2	0	\$ 6,200.00	\$ -	\$ -	\$ (6,200.00)
Water Service Reconnection	C.Y.	\$ 2,800.00	3	3	\$ 8,400.00	\$ 8,400.00	\$ -	\$ -
Granular Select Backfill	S.Y.	\$ 28.00	215	215	\$ 6,020.00	\$ 6,020.00	\$ -	\$ -
Temporary Surface Over Trench	S.Y.	\$ 31.00	65	65	\$ 2,015.00	\$ 2,015.00	\$ -	\$ -
Bituminous Pavement Replacement	Each	\$ 55.00	296	0	\$ 16,280.00	\$ -	\$ -	\$ (16,280.00)
Remove Existing Valve Box	L.F.	\$ 250.00	3	3	\$ 750.00	\$ 750.00	\$ -	\$ -
Totals					\$ 117,017.00	\$ 86,077.00	\$ 880.00	\$ (31,820.00)
Final Cost Adjustment For Original Bid Items							\$	(30,940.00)

Justification

Watermain Quality Casing Pipe, 12" Dia.: There was less watermain installed as originally estimated.

Watermain Quality Storm Sewer: There was less storm sewer replacement required than originally estimated.

Gate Valve, 6": The contractor was able to construct and test the watermain with one less valve than originally estimated.

1/8 Bend, 6" Dia.: One less bend was required than originally estimated.

City of Rochelle  
3rd Street and 10th Avenue Sanitary Sewer Replacement - 2015

Exhibit C

**Final Quantities and Cost Adjustment Table for Original Bid Items**

Item	Units	Unit Price	Quantities		Original Contract Cost	Final Contract Cost	Cost Adjustment	
			Plan	Final			Increase	Decrease
Sanitary Sewer, 12" Dia.	L.F.	\$ 121.00	376	376	\$ 45,496.00	\$ 45,496.00	\$ -	\$ -
Sanitary Sewer, 10" Dia.	L.F.	\$ 115.00	432	432	\$ 49,680.00	\$ 49,680.00	\$ -	\$ -
Sanitary Sewer, 8" Dia.	L.F.	\$ 125.00	41	41	\$ 5,125.00	\$ 5,125.00	\$ -	\$ -
Storm Sewer, 36" Dia., Type B (Flexible Pipe), Type 1	L.F.	\$ 141.00	34	34	\$ 4,794.00	\$ 4,794.00	\$ -	\$ -
Storm Sewer, 18" Dia., Type B (Flexible Pipe), Type 1	L.F.	\$ 100.00	10	10	\$ 1,000.00	\$ 1,000.00	\$ -	\$ -
Storm Sewer, 12" Dia., Type B (Flexible Pipe), Type 1	L.F.	\$ 95.00	16	16	\$ 1,520.00	\$ 1,520.00	\$ -	\$ -
Sanitary Manhole, 4' Dia., Type A	Each	\$ 4,100.00	5	6	\$ 20,500.00	\$ 24,600.00	\$ 4,100.00	\$ -
Storm Manhole, 5' Dia., Type A	Each	\$ 2,600.00	3	3	\$ 7,800.00	\$ 7,800.00	\$ -	\$ -
Sanitary Sewer Service Reconnection	Each	\$ 1,500.00	4	4	\$ 6,000.00	\$ 6,000.00	\$ -	\$ -
Sanitary Sewer Service Reconnection Special, 6" Dia.	Each	\$ 1,700.00	1	0	\$ 1,700.00	\$ -	\$ -	\$ (1,700.00)
Granular Select Backfill	C.Y.	\$ 28.00	929	929	\$ 26,012.00	\$ 26,012.00	\$ -	\$ -
Temporary Surface Over Trench	C.Y.	\$ 31.00	222	222	\$ 6,882.00	\$ 6,882.00	\$ -	\$ -
Bituminous Pavement Replacement, 5"	S.Y.	\$ 55.00	811	0	\$ 44,605.00	\$ -	\$ -	\$ (44,605.00)
Concrete Pavement w/ Bitum. Overlay Replacement	S.Y.	\$ 134.12	422	0	\$ 56,598.64	\$ -	\$ -	\$ (56,598.64)
Connection to Existing Sanitary Manhole	Each	\$ 1,800.00	1	1	\$ 1,800.00	\$ 1,800.00	\$ -	\$ -
Storm Sewer Removal, 18" Dia.	L.F.	\$ 22.00	44	44	\$ 968.00	\$ 968.00	\$ -	\$ -
Sanitary Manhole Abandonment	Each	\$ 800.00	3	3	\$ 2,400.00	\$ 2,400.00	\$ -	\$ -
Curb & Gutter Replacement	L.F.	\$ 55.00	49	44	\$ 2,695.00	\$ 2,420.00	\$ -	\$ (275.00)
Sidewalk Replacement	S.F.	\$ 11.20	260	193.2	\$ 2,912.00	\$ 2,163.84	\$ -	\$ (748.16)
Seeding Class 1 w/ Pulverized Topsoil, 4"	S.Y.	\$ 20.00	149	149	\$ 2,980.00	\$ 2,980.00	\$ -	\$ -
Rock Excavation	C.Y.	\$ 85.00	31	31	\$ 2,635.00	\$ 2,635.00	\$ -	\$ -
Traffic Control	L. Sum	\$ 10,000.00	1	1	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -
Bypass Pumping	L. Sum	\$ 5,000.00	1	1	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -
Totals					\$ 309,102.64	\$ 209,275.84	\$ 4,100.00	\$ (103,926.80)
Final Cost Adjustment For Original Bid Items							\$	(99,826.80)

**Justification**

Sanitary Manhole, 4' Dia., Type A : An additional manhole was required mid-block on 3rd Street for 6" service reconnection.

Sanitary Sewer Service Reconnection Special, 6" Dia.: This work was removed since the line was abandoned and did not require reconnection.

Bituminous Pavement Replacement, 5": Patch pavement restoration was removed from the original contract.

Concrete Pavement w/ Bitum. Overlay Replacement: Patch pavement restoration was removed from the original contract .

Curb & Gutter Replacement: There was less curb and gutter removed than what was estimated in the original design quantities.

Sidewalk Replacement: There was less sidewalk removed than what was estimated in the original design quantities.