



CITY of NOVI CITY COUNCIL

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**Agenda Item H
November 13, 2007**

SUBJECT: Approval of the final balancing change order and final pay estimate to D.O.C Contracting, Inc. for the Beck Road Water Main Replacement project (east side of Beck Road between Grand River Avenue and Eleven Mile Road) in the amount of \$51,037.35.

SUBMITTING DEPARTMENT: Engineering *KA*

CITY MANAGER APPROVAL:

BACKGROUND INFORMATION:

The City's consulting engineer for this project (Fishbeck, Thompson, Carr & Huber) administered the construction contract for the construction of a replacement water main in the east right-of-way of Beck Road north of Eleven Mile Road. The project was awarded to D.O.C. Contracting, Inc. on June 5, 2006. The work was deemed substantially complete last fall, however, several outstanding punchlist items remained to be completed this past spring, including drainage improvements and pavement and turf restoration. This work has now been completed with all closeout documentation submitted.

The water main installation work performed by the contractor has been in substantial compliance with the plans and specifications, and final payment in the amount of \$51,037.35 is appropriate. In addition, the City Attorney has reviewed supporting documentation and found it to be in an acceptable form (Secrest-Wardle letter dated October 30, 2007, attached). The original contract was in the amount of \$624,152.50. Change orders amounting to \$39,497.55 (or 6.3% of the original contract) bring the total in construction expenditures on this project to \$ 663,649.05.

RECOMMENDED ACTION: Approval of the final balancing change order and final pay estimate to D.O.C Contracting, Inc. for the Beck Road Water Main Replacement project (east side of Beck Road between Grand River Avenue and Eleven Mile Road) in the amount of \$51,037.35.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Capello				
Council Member Crawford				
Council Member Gatt				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

October 30, 2007

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Elizabeth M. Kudla
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Marina Neumaier, Assistant Finance Director
City of Novi
45175 West Ten Mile Road
Novi, Michigan 48375

**Re: Beck Road Water Main Replacement
D.O.C. Contracting, Inc. - Closing Documents
Our File No. 55142 NOV**

Dear Ms. Neumaier:

At your request, our office has reviewed the following documents in connection with the contract for the above-referenced matter:

- Final Pay Estimate No. 6
- Maintenance and Guarantee Bond
- Contractor's Sworn Statement
- Consent of Surety
- Waivers of Rights Under Payment Bond

It appears the City Engineer has signed Final Pay Estimate No. 6 confirming the amount of the Final Pay Estimate. The documents appear to be in order for final payment.

If you have any questions regarding the above, please do not hesitate to call.

Very truly yours,



ELIZABETH M. KUDLA

EMK

C: Clay Pearson, City Manager
Kathy Smith-Roy, Finance Director
Thomas R. Schultz, Esquire

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Client: City of Novi
 Project: Beck Road Water Main Replacement - G05143C1
 Contractor: D.O.C. Contracting, Inc.

Pay Estimate No.: 6
 Period:
 Progress or Final: Final payment

Item No.	Item Description	Unit	Original Authorized Quantity	CM#1	CM#2	CM#3	Final Authorized Quantity	Unit Price	Quantity This Estimate	Amount This Estimate	Quantity Previously Paid	Quantity Paid to Date	Total Amount Earned to Date
1	Mobilization (\$50,000 Maximum)	LS	1				1	\$50,000.00		\$ -	1.0	1.0	\$ 50,000.00
2	Audio-Visual Coverage	LS	1				1	\$1,400.00		\$ -	1.0	1.0	\$ 1,400.00
3	Remove Pavement	SY	357	1860	207		108	\$9.00		\$ -	106.0	106.0	\$ 954.00
4	Remove Bituminous Drive Approaches	SY	610	10	84.9		635.1	\$4.20		\$ -	535.1	535.1	\$ 2,247.42
5	Aggregate Shoulder, 6-inch	SY	610				610	\$14.00	604.00	\$ 8,458.00	14.0	618.0	\$ 8,652.00
6	Remove Concrete and Gutter	LF	250		97		153	\$4.40		\$ -	183.0	183.0	\$ 805.20
7	Remove Trees	EA	2				12	\$680.00		\$ -	12.0	12.0	\$ 8,160.00
8	Remove and Salvage Culvert	LF	345		32		377	\$23.00		\$ -	377.0	377.0	\$ 8,800.00
9	Remove and Salvage Signs	EA	3				5	\$100.00		\$ -	6.0	6.0	\$ 600.00
10	Remove 15-inch Water Main Ductile Iron	LF	710		348		1654	\$13.00		\$ -	1,053.0	1,053.0	\$ 13,787.00
11	5-foot Concrete Sidewalk	SY	40		22		46.2	\$35.50		\$ -	46.2	46.2	\$ 1,641.10
12	Concrete Curb and Gutter	LF	250		97		183	\$29.74		\$ -	183.0	183.0	\$ 5,442.42
13	Pavement Markings	LS	1				0	\$1,500.00		\$ -			\$ -
14	24-inch Ductile Iron CL 54 Water Main	LF	3,480		277		3443	\$100.00		\$ -	3,443.0	3,443.0	\$ 344,300.00
15	24-inch Butterfly Valve and Structure	EA	3		1		2	\$8,000.00		\$ -	2.0	2.0	\$ 16,000.00
16	Water Valve Manhole Modification	EA	2				2	\$7,000.00		\$ -	2.0	2.0	\$ 14,000.00
17	12-inch Gate Valve and Structure	EA	1				0	\$2,500.00		\$ -			\$ -
18	8-inch Gate Valve and Structure	EA	1				2	\$2,000.00		\$ -	2.0	2.0	\$ 4,000.00
19	Hydrant Assembly	EA	7				8	\$2,000.00		\$ -	8.0	8.0	\$ 16,000.00
20	Existing Hydrant Assembly Reconnection	EA	2				2	\$1,800.00		\$ -	2.0	2.0	\$ 3,600.00
21	24-inch Connection to Existing Water Main	EA	5				5	\$1,500.00		\$ -	5.0	5.0	\$ 7,500.00
22	12-inch RCP Culverts	LF	230		22		208	\$20.00		\$ -	208.0	208.0	\$ 4,160.00
23	12-inch CMP Culverts	LF	138		111		24	\$19.00		\$ -	24.0	24.0	\$ 456.00
24	Soil Erosion and Sedimentation Control Measures	LS	1				1	\$1,800.00	0.00	\$ 900.00	0.5	1.0	\$ 1,800.00
25	Permanent Erosion Control Blanket	SY	70				70	\$3.00	70.00	\$ 210.00		70.0	\$ 210.00
26	Heavy Riprap	SY	40		31.0		71.6	\$40.00		\$ -	71.6	71.6	\$ 2,864.00
27	Class II Fill	CY	850		12.0		862.8	\$10.00		\$ -	862.8	862.8	\$ 8,628.00
28	Trench Undercut and Stabilization	LF	295				295	\$15.00		\$ -	295.0	295.0	\$ 4,425.00
29	Grading and Restoration	LF	2750	3950	1341		3044	\$10.00	1,699.00	\$ 16,990.00	1,375.0	3,044.0	\$ 30,440.00
30	Aggregate Base 2 1/2", 6 inches	SY	55		55		0	\$3.00		\$ -			\$ -
31	Aggregate Base 2 1/2", 4 inches	SY	610		226.6		383.4	\$4.00		\$ -	383.4	383.4	\$ 1,533.60
32	HMA 3C	TGN	217	213	84.17		345.83	\$82.00		\$ -	345.8	345.8	\$ 28,368.00
33	HMA 4C	TGN	87	243	10.88		379.88	\$92.50		\$ -	379.9	379.9	\$ 35,137.05
34	Traffic Control	LS	1				1	\$10,000.00	0.25	\$ 2,500.00	0.8	1.0	\$ 10,000.00
35	Temporary Water Service - 1/2-inch	EA	1				0	\$1,800.00		\$ -			\$ -
36	Materials Compaction Testing Allowance	LS	1				1	\$3,000.00	0.50	\$ 2,500.00	0.5	1.0	\$ 5,000.00
37	Sanitary Service Lead Allowance	LS	1				0	\$5,000.00		\$ -			\$ -
38	Water Service Lead Allowance	LS	1				0	\$5,000.00		\$ -			\$ -
Extra Items													
CM#1	Pav't M'kg, Type NR, Paint, 4 inch	LF	N/A	1435	3301		4966	\$0.70		\$ -	4,950.0	4,956.0	\$ 3,469.20
CM#1	Pav't M'kg, Type R, 4 inch	LF	N/A	3310	4963		8273	\$1.45		\$ -	8,273.0	8,273.0	\$ 11,995.85
CM#1	Pav't M'kg, Longit, 6" or Less Width, Rom	FT	N/A	3310	970		9480	\$0.75		\$ -	9,480.0	9,480.0	\$ 7,110.00
CM#1	Erosion Control, Silt Fence	FT	N/A	400			400	\$1.75		\$ -	400.0	400.0	\$ 700.00
CM#2	Pav't M'kg, 24-inch stop bar	FT	N/A		96		99	\$12.50		\$ -	96.0	96.0	\$ 1,220.00
CM#2	Cold Milling Asphalt Surface	SY	N/A	1483			1483	\$6.30		\$ -	1,483.0	1,483.0	\$ 9,342.90
CM#3	Liquidated Damages	DLR	N/A		21000		-21000	\$1.00	(21,000.00)	\$ (21,000.00)		(21,000.00)	\$ (21,000.00)
CM#3	Force Account Pavement Repair	DLR	N/A		517125		517125	\$1.00	5,171.25	\$ 5,171.25		5,171.25	\$ 5,171.25
CM#3	Materials Compaction Testing Allowance, Extra	DLR	N/A		1008		1008	\$1.00	1,008.00	\$ 1,008.00		1,008.0	\$ 1,008.00

Current Earnings: \$ 16,433.25 Total Earnings: \$ 663,649.05
 - Current Retainage: -\$34,004.10 -Retainage to Date: \$34,004.10
 - Current Adjustments: \$ - -Adjustments to Date: \$ -
 Current Net Estimate: \$ 51,037.35 Total Net: \$ 629,044.96
 Amount Due This Estimate: \$ 51,037.35

I certify that the items included on this report constitute my estimate of the work completed and due the contractor as of the period covered by this document.

Karen E. Camargo
 Ms. Karen E. Camargo, P.E. - Project Engineer

I have reviewed this estimate on behalf of D.O.C. Contracting, Inc. and concur with the quantities presented for the period covered by this document.

Steven Rooker 8/29/07
 authorized signature
 Printed Name: Steven Rooker

Contract Summary
 Amount Previously Paid: \$612,811.71
 Total Paid: \$663,649.05
 Original Contract: \$624,152.50
 CM#1 \$79,761.00
 CM#2 -\$11,831.70
 CM#3 -\$28,432.75
 Total Contract Amount \$663,649.05
 % of Original 106.3%
 Percentage of Contract Completed: 100%



Contract Modification

Fishbeck, Thompson, Carr_Huber

8/28/2007 8:27 AM

FieldManager 4.2b

Contract: _05143, Beck Road Water Main Replacement

Cont. Mod. Number 3	Revision Number	Cont. Mod. Date 8/28/2007	Electronic File Created No	Net Change \$-28,432.75	Awarded Contract Amount \$624,152.50
Route		Federal Number		District 0	
Managing Office Fishbeck, Thompson, Carr & Huber, Inc.					
Contract Location Novi, MI					

Short Description

Final Balance All items

Description of Changes

It is requested that the following Extra item be added to the contract and the Original item be balanced as shown below.

Increases / Decreases

Item Description	Item Code	Prop. Line	Proj. Line	Project	Catg.	Item Type	Quantity Change	Unit	Unit Price	Dollar Value
Grading and Restoration	_514302	0029	0145	G05143	001	Original	-1,361.000	FT	10.00000	\$-13,610.00

Reason: This quantity was added per Contract Modification No. 1 and then not needed.

Total Dollar Value: \$-13,610.00

New Items

Item Description	Item Code	Prop. Line	Proj. Line	Project	Catg.	Item Type	Proposed Quantity	Unit	Unit Price	Dollar Value
_ Force Account: Pavement Repair	1047060	0061	0225	G05143	001	Extra	5,171.250	Dir	1.00000	\$5,171.25

Reason: At the direction of the City of Novi, subbase issues were corrected with full depth pavement repair which included saw cutting, removing asphalt, and placing asphalt in five locations prior to paving the northbound lane.

_ Materials Compaction Testing Allowance, Extra	1047060	0062	0230	G05143	001	Extra	1,006.000	Dir	1.00000	\$1,006.00
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Reason: At the direction of the City of Novi a temporary traffic lane was added to the west side of Beck Road to maintain traffic during construction. Density testing was performed on the aggregate base material and the asphalt paving at this location.



Contract Modification

Fishbeck, Thompson, Carr, Huber

8/28/2007 8:27 AM

FieldManager 4.2b

New Items

Item Description	Item Code	Prop. Line	Proj. Line	Project	Catg.	ItemType	Proposed Quantity	Unit	Unit Price	Dollar Value
Liquidated Damages	1047060	0063	0235	G05143	001	Extra	-21,000.000	Dir	1.00000	\$-21,000.00

Reason: Liquidated damages will be charged from the revised substantial completion date of November 14, 2006 through the actual substantial completion date of December 15, 2006. The project was 31 days beyond the substantial completion date. A reduction for the liquidated damage charges for final completion to not include the winter shut down time and only include work days beyond the substantial completion date. DOC was on-site on the following days: 1/10/07-1/11/07, 5/15/07-5/16/07, 5/29/07-6/1/07, 6/14/07-6/15/07, and 7/11/07. Therefore 11 days will be charged. The contract documents state liquidated damage charges will be assessed at \$500 a day for each calendar day beyond the completion date. The total liquidated damage charges result in 42 days or \$21,000. This has been discussed with and approved by the City of Novi.

Total Dollar Value: **\$-14,822.75**

Time Extensions

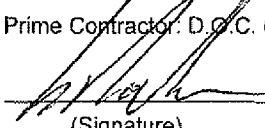
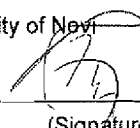
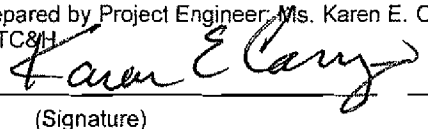
Site	Site Description	Site Type	Original Compl. Date/Days	Additional No. of Days	New Compl. Date/Days
00	Overall Contract Site	Completion Date	9/30/2006		11/14/2006

Reason: The original substantial completion date of September 30, 2006, is being extended to November 14, 2006. The contractor's actual substantial completion date was December 15, 2006. Liquidated damages are being charged for 42 days for a value of \$21,000.00. Liquidated damages included days work beyond the contractor's actual completion date. This has been discussed with and approved by the city of Novi.

Project / Category Summary

Project	Catg.	Project/Category Description	Project Status	Finance System	Control Section	Dollar Value
G05143		Beck Road Water Main Replacement	CNST			
	001	Beck Road Water Main Replacement				\$-28,432.75
Total:						\$-28,432.75

Total Net Change Amount: **\$-28,432.75**

Prime Contractor: D.C.C. Contracting, Inc.  (Signature)	City of Novi  (Signature)
8-29-07 8-29-07 (Date)	8/31/07 (Date)
Prepared by Project Engineer, Ms. Karen E. Carnago, P.E. - FTC&H  (Signature)	
8/29/07 (Date)	