

Change Order

No. 1

Date of Issuance: October 29, 2015

Effective Date: October 29, 2015

Project: Paving District 494 55 th Crossing West	Owner: City of Minot	Owner's Contract No.: 3982
Contract: Paving District 494 55 th Crossing West		Date of Contract: June 18, 2015
Contractor: Keller Paving and Landscaping, Inc		Engineer's Project No.: 12-046 06

The Contract Documents are modified as follows upon execution of this Change Order:

Description: Add curb drops at the proposed driveway locations. There are 139 proposed drops at \$475 per drop for a total of \$66,025.

Attachments: (List documents supporting change):

Memo on cost comparison

CHANGE IN CONTRACT PRICE:

Original Contract Price:

\$ 2,576,435.00

[Increase] [Decrease] from previously approved Change Orders No. _____ to No. _____:

\$ _____

Contract Price prior to this Change Order:

\$ 2,576,435.00

[Increase] [Decrease] of this Change Order:

\$ 66,025

Contract Price incorporating this Change Order:

\$ 2,642,460.00

CHANGE IN CONTRACT TIMES:

Original Contract Times: ☐ Working days ☐ Calendar days

Substantial completion (days or date): November 1, 2015

Ready for final payment (days or date): November 15, 2015

[Increase] [Decrease] from previously approved Change Orders

No. _____ to No. _____:

Substantial completion (days): 0

Ready for final payment (days): 0

Contract Times prior to this Change Order:

Substantial completion (days or date): November 1, 2015

Ready for final payment (days or date): November 15, 2015

[Increase] [Decrease] of this Change Order:

Substantial completion (days or date): 0

Ready for final payment (days or date): 0

Contract Times with all approved Change Orders:

Substantial completion (days or date): November 1, 2015

Ready for final payment (days or date): November 15, 2015

RECOMMENDED

By [Signature]
Engineer (Authorized Signature)

Date 11-12-15

Approved by Funding Agency (if applicable)

ACCEPTED

By [Signature]
Owner (Authorized Signature)

Date 11/23/15

ACCEPTED

By [Signature]
Contractor (Authorized Signature)

Date 11-12-2015

Date

1907 17th Street Southeast
Minot, ND 58701
701.837.8737
www.ackerman-estvold.com

MEMORANDUM

To: Lance Meyer, PE, City of Minot

Cc: Jacqueline Aucker, EI, Assistant City Engineer, City of Minot

From: Patrick D. Samson, PE, Ackerman-Estvold

Date: October 29, 2015

Re: 55th Crossing West - Paving District 494
Cost Justification for Change Order #1

Change order #1 is being issued at the request of the developer. At the preconstruction meeting, the developer requested that the curbs be placed with curb depressions at the proposed driveway locations so that they would not need to remove and replace the new curb and the homes were constructed. At the time, the City said this was acceptable as long as the developer covered the increased cost to the contract. The developer has agreed to pay for the increase.

The purpose of this memo is to provide a price justification for the change order.

Curb Drop:

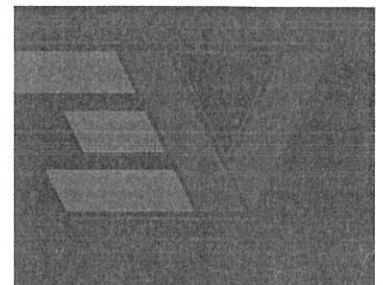
The Contractor has proposed to complete the work at a unit price cost of \$475.00 per drop. The cost per drop was calculated based on the increased time to install the drops. The contractor has noted that with a curb drop, they move at roughly half speed (500 ft/day vs. 1,000 ft/day). Under the proposed change order, there will be 139 drops at 30 feet (average) per drop and will add 8 days to the curb work. The contractor's labor + profit is \$8,250 per day or \$66,000. At the proposed price per drop, the change order increase is \$66,025.00.

Without the proposed change order, the developer would need to remove and replace the curb and gutter at each proposed driveway. Based on 139 drops at 30 feet per drop, there would be 4,170 feet of curb to remove and replace. The bid cost of the curb under this contract is \$18.50 per LF and it is estimated that the cost of removal would be \$5 per LF. The cost of replacing the curb would be \$97,995.

The price increase of the proposed change order is less than the cost to remove and replace the existing curb and gutter and would represent a cost savings to the developer.

Result = Increase of \$66,025.00

This occurs as it in the long run to future damage to the road. The developer know around the home after the fact. The developer know remove the driveway curb and place it to use before the driveway is built. Minot, ND | Williston, ND
took advantage of the situation.



per foot prices

Item No.	Description	Unit	Quantity	Unit Price	Subtotal	Engineer's Estimate	Bechtold Paving, Inc.
1	Contract Bond	LS	1	\$50,000.00	\$50,000.00		
2	Mobilization	LS	1	\$125,000.00	\$125,000.00		
3	Traffic Control	LS	1	\$13,500.00	\$13,500.00		
4	Flagging	LS	1	\$50,000.00	\$50,000.00		
5	Material Testing	LS	1	\$56,500.00	\$56,500.00		
6	Remove & Replace Curb & Gutter	LF	1070	\$40.00	\$42,800.00	\$40.00	\$42,800.00
7	Remove Concrete Valley Gutter	SY	248	\$115.00	\$28,520.00	\$28.520.00	\$28,520.00
8	Concrete Valley Gutter	SY	486	\$100.00	\$48,600.00	\$48.600.00	\$48,600.00
9	Removal of Hot Bituminous Pavement	SY	680	\$6.00	\$4,080.00	\$4.080.00	\$4,080.00
10	Full Mill Hot Bituminous Pavement	SY	61230	\$6.60	\$404,118.00	\$404.118.00	\$404,118.00
11	Edge Mill Hot Bituminous Pavement	SY	55840	\$5.25	\$293,160.00	\$293.160.00	\$293,160.00
12	Cl. 5 Aggregate Base	Ton	200	\$30.00	\$6,000.00	\$6.000.00	\$6,000.00
13	Cl. 29 Hot Bituminous Pavement Overlay w/ PG 58-28 Asphalt Cement	Ton	16560	\$120.00	\$1,987,200.00	\$1,987.200.00	\$1,987,200.00
14	Cl. 29 Hot Bituminous Pavement Patch w/ PG 58-28 Asphalt Cement	Ton	350	\$140.00	\$49,000.00	\$49.000.00	\$49,000.00
15	Crack Sealing - Non Routed	LF	13000	\$1.00	\$13,000.00	\$13.000.00	\$13,000.00
16	CRS-2P Bituminous Seal	Gal	53550	\$8.00	\$428,400.00	\$428.400.00	\$428,400.00
17	Cl. 41M Aggregate	SY	133870	\$1.75	\$234,272.50	\$234.272.50	\$234,272.50
18	Rehab Sanitary Manhole	VF	100	\$350.00	\$35,000.00	\$35.000.00	\$35,000.00
19	Remove & Replace Manhole Casting & Lid	EA	1	\$2,000.00	\$2,000.00	\$2.000.00	\$2,000.00
20	Remove & Replace Catch Basin Casting & Grate	EA	3	\$1,000.00	\$3,000.00	\$3.000.00	\$3,000.00
21	Remove & Replace Gate Valve Casting	EA	16	\$1,000.00	\$16,000.00	\$16.000.00	\$16,000.00
22	Adjust Manhole	EA	90	\$300.00	\$27,000.00	\$27.000.00	\$27,000.00
23	Adjust Gate Valve Box	EA	36	\$200.00	\$7,200.00	\$7.200.00	\$7,200.00
24	Temporary Striping	LS	1	\$10,000.00	\$10,000.00	\$10.000.00	\$10,000.00
25	Performed Patterned Pymt Mk - Message	EA	40	\$400.00	\$16,000.00	\$16.000.00	\$16,000.00
26	Performed Patterned Pymt Mk - 24in Line	LF	640	\$36.00	\$23,040.00	\$23.040.00	\$23,040.00
27	Epoxy Paint Pymt Mk - 6in Line	LF	730	\$5.00	\$3,650.00	\$3.650.00	\$3,650.00
28	Epoxy Paint Pymt Mk - 4in Line	LF	21420	\$3.00	\$64,260.00	\$64.260.00	\$64,260.00
				Unit Price	Subtotal	Engineer's Estimate	Bechtold Paving, Inc.
					\$10,500.00		
					\$13,500.00		
					\$56,500.00		
					\$50,000.00		
					\$4,080.00		
					\$48,600.00		
					\$28,520.00		
					\$42,800.00		
					\$64,200.00		
					\$38.00		
					\$9,424.00		
					\$53,460.00		
					\$110.00		
					\$45.00		
					\$30,600.00		
					\$2.60		
					\$159,198.00		
					\$120,056.00		
					\$50.00		
					\$92.50		
					\$1,531,800.00		
					\$61,250.00		
					\$6,240.00		
					\$0.48		
					\$2.73		
					\$146,191.50		
					\$92,370.30		
					\$245.00		
					\$1,000.00		
					\$24,500.00		
					\$3,000.00		
					\$9,600.00		
					\$54,000.00		
					\$600.00		
					\$54,000.00		
					\$250.00		
					\$9,000.00		
					\$9,000.00		
					\$250.00		
					\$32.55		
					\$20,000.00		
					\$500.00		
					\$20,000.00		
					\$6,205.00		
					\$8.50		
					\$0.40		
					\$8,568.00		
					\$2,547,994.80		

Bid Tabulations
 City of Minot Flood Inundated Areas Street Rehab - Section 1
 Minot, North Dakota
 Bid Opening: March 17, 2015 @ 9:00 AM

R14090.00

Item No.	Description	Unit	Quantity	Unit Price	Subtotal	Minor Paving Company	Keller Paving & Landscaping, Inc.
1	Contract Bond	LS	1	\$12,500.00	\$12,500.00		
2	Mobilization	LS	1	\$27,000.00	\$27,000.00		
3	Traffic Control	LS	1	\$55,000.00	\$55,000.00		
4	Flagging	LS	1	\$25,000.00	\$25,000.00		
5	Material Testing	LS	1	\$8,000.00	\$8,000.00		
6	Remove & Replace Curb & Gutter	LF	1070	\$62.50	\$66,875.00		
7	Remove & Replace Valley Gutter	SY	248	\$26.00	\$6,448.00		
8	Concrete Valley Gutter	SY	486	\$95.00	\$46,170.00		
9	Removal of Hot Bituminous Pavement	SY	680	\$9.75	\$6,630.00		
10	Full Mill Hot Bituminous Pavement	SY	61230	\$1.90	\$116,337.00		
11	Edge Mill Hot Bituminous Pavement	SY	55840	\$2.00	\$111,680.00		
12	Cl. 5 Aggregate Base	Ton	200	\$35.00	\$7,000.00		
13	Cl. 29 Hot Bituminous Pavement Overlay w/ PG 58-28 Asphalt Cement	Ton	16560	\$98.00	\$1,622,880.00		
14	Cl. 29 Hot Bituminous Pavement Patch w/ PG 58-28 Asphalt Cement	Ton	350	\$165.00	\$57,750.00		
15	Crack Sealing - Non Routed	LF	13000	\$0.50	\$6,500.00		
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21	Adjust Manhole	EA	90	\$7,600.00	\$684,000.00		
22	Adjust Gate Valve Box	EA	36	\$200.00	\$7,200.00		
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26	Epoxy Paint Pymt Mk - 6in Line	LF	730	\$9.00	\$6,570.00		
27	Epoxy Paint Pymt Mk - 4in Line	LF	21420	\$0.42	\$8,996.40		
28	Subtotal				\$2,585,566.40		
	Subtotal				\$2,967,017.50		

Calculation of Kalle's cost -
 from Patricia Sampson Adenomon Esild

17,670 LF 18.50/LF

1.25 ft³/ft

26' driveway
 40' driveway

1,000 ft³/day
 50 cy

20 ft/cy

\$18,500 total per day
 - 50(1.25) = 6,250 concrete
 12,250

- 2.00/15 prep
 - 2.00/15 backfill
 \$4,000

\$8,250/day labor & profit bid
 8.25/ft

500 ft/day

assume 15 driveways

500 x 18.5 = 9,250

25 cy x 1.25 = 3,125

6,125

- 4,000 x 500 = 2,000

4,125 labor & profit

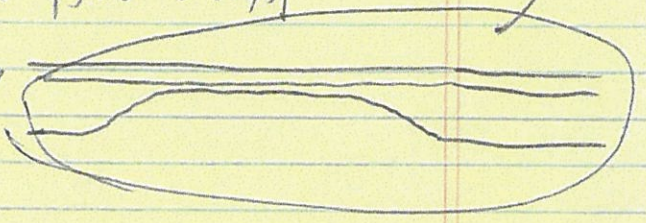
+ 15 driveways @ 475 = \$11,250

skid steer & labor cleanup
 10 hrs 1.25 + 45 = 1,700

\$9,550

labor & profit per day
 with \$475 for each drop

1 drop



bid 17,670 LF 18,500 / LF

curb cut 7,200 LF

1,000 LF / day ~ 18 days machine pour

curb cut areas half speed 500 LF / day

~~the~~ 10,500 LF @ 1,000 / day = 11 days

7,200 LF @ 500 / day = 15 days

with curb cuts ~ 26 days

from previous sheet, bid 8,250 per day
labor + profit

curb drops add 8 days

8 x 8,250 = 66,000

120 drops at 475 = \$57,000, giving you a total

Clear time
per day