

# STATE OF COLORADO

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**DEPARTMENT OF TRANSPORTATION**

4201 East Arkansas Avenue  
Denver, Colorado 80222  
(303) 757-9293

July 17, 2000

**COLORADO CONSTRUCTION COST INDEX REPORT**  
Calendar Year 2000  
Second Quarter

Prepared by  
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Prepared for  
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# STATE OF COLORADO



## DEPARTMENT OF TRANSPORTATION

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### SUMMARY

#### CONSTRUCTION COST INDEX FOR SELECTED HIGHWAY CONSTRUCTION ITEMS

2nd QUARTER ENDING JUNE 30, 2000

Index for this quarter.....	165.5
Index for last quarter.....	164.5
Point change from last quarter.....	+ 1.0
Percentage change from last quarter.....	+ 0.6%
Index for same quarter of last year.....	161.8
Point change from same quarter last year.....	+ 3.7
Percentage change from this quarter.....	+ 2.3%

Average number of bidders this quarter.....	4.7
Change in number of bidders from last quarter.....	- 0.2%

NOTE: All information shown in this publication was assembled using 1987 as base year.

## CCI REPORT FROM 04/01/2000 TO 06/30/2000

ITEM CODE	# OF ITEM	QUANTITY	PRICE	UNIT PRICE	INDEX
203-00000 To 203-00060 203-00062 To 203-00210 203-00400 To 203-00500 203-01020 To 203-01030 209-00000 To 209-00050	26	English (CY) 1322060.00	\$5,478,486.44	\$4.14	
	7	Metric (CM) 1075121.00	\$6,551,263.36	\$6.09	
<b>UNCLASSIFIED EXCAV (CIP)</b>	<b>33</b>	<b>2728318.27<sup>CY</sup></b>	<b>\$12,029,749.80</b>	<b>\$4.41</b>	<b>178.5</b>
403-01000 403-01010 403-31300 To 403 35452 403-91401 To 403-95353 411-03200 To 411-03354 Only \$ added for 411 Item	30	English (TON) 436567.40	\$17,386,347.31	\$39.83	
	7	Metric (MT) 115931.00	\$5,590,970.25	\$48.23	
<b>HOT BIT. PAVEMENT (H -A)</b>	<b>37</b>	<b>564381.33<sup>T</sup></b>	<b>\$22,977,317.56</b>	<b>\$40.71</b>	<b>175.7</b>
412-00000 To 412-00050 412-00700 To 412-01352 412-03000 To 412-03000	10	English (SY) 158334.02	\$4,589,629.36	\$28.99	
	8	Metric (SM) 1084185.53	\$12,631,611.72	\$11.65	
<b>CONCRETE PAVEMENT (9")</b>	<b>18</b>	<b>1455009.11<sup>SY</sup></b>	<b>\$17,221,241.08</b>	<b>\$11.84</b>	<b>88.6</b>
<b>SURFACING TOTAL INDEX</b>					<b>166.8</b>
509-00000 To 509-00000	1	English (LB) 1779213.00	\$1,957,134.30	\$1.10	
	1	Metric (KG) 1540250.00	\$4,497,530.00	\$2.92	
<b>STRUCTURAL STEEL</b>	<b>2</b>	<b>5175464.25<sup>LB</sup></b>	<b>\$6,454,664.30</b>	<b>\$1.25</b>	<b>146.2</b>
601-01022 To 601-01022 601-01030 To 601-01060 601-03030 To 601-05064	9	English (CY) 12647.00	\$3,990,182.04	\$315.50	
	9	Metric (CM) 10618.10	\$5,953,882.45	\$560.73	
<b>STRUCTURAL CONCRETE</b>	<b>18</b>	<b>26535.47<sup>CY</sup></b>	<b>\$9,944,064.49</b>	<b>\$374.75</b>	<b>172.5</b>
602-00000 To 602-00000 602-00020 To 602-00020	10	English (LB) 2920340.00	\$1,374,156.40	\$0.47	
	5	Metric (KG) 1467129.00	\$1,520,416.83	\$1.04	
<b>REINFORCING STEEL</b>	<b>15</b>	<b>6155359.45<sup>LB</sup></b>	<b>\$2,894,573.23</b>	<b>\$0.47</b>	<b>114.7</b>
<b>STRUCTURAL TOTAL INDEX</b>					<b>155.9</b>
<b>COMPOSITE INDEX =</b>					<b>165.5</b>

**Total cost on 6 categories above = \$71,521,610.46**

**Summary Report for all the projects awarded between 04/01/2000 And 06/30/2000**

<i>Project Amount</i>	<i>No. of Projects</i>	<i>No. of Bidders</i>	<i>Total Contract Amt.</i>	<i>Avg. # of Bids</i>
<i>\$0.00 to \$49,999.99</i>	0			
<i>\$50,000.00 to \$99,999.99</i>	1	3	\$93,346.00	3.0
<i>\$100,000.00 to \$249,999.99</i>	2	8	\$388,274.25	4.0
<i>\$250,000.00 to \$499,999.99</i>	4	23	\$1,551,340.10	5.8
<i>\$500,000.00 to \$999,999.99</i>	7	25	\$5,411,288.69	3.6
<i>1,000,000.00 to \$2,499,999.99</i>	10	50	\$17,964,415.34	5.0
<i>2,500,000.00 to \$4,999,999.99</i>	4	15	\$12,394,275.55	3.8
<i>5,000,000.00 to \$9,999,999.99</i>	2	7	\$16,309,425.09	3.5
<i>10,000,000.00 to \$19,999,999.99</i>	2	11	\$21,818,303.22	5.5
<i>20,000,000.00 to \$49,499,999.99</i>	3	21	\$95,473,453.33	7.0
<i>50,000,000.00 or Greater</i>	0			

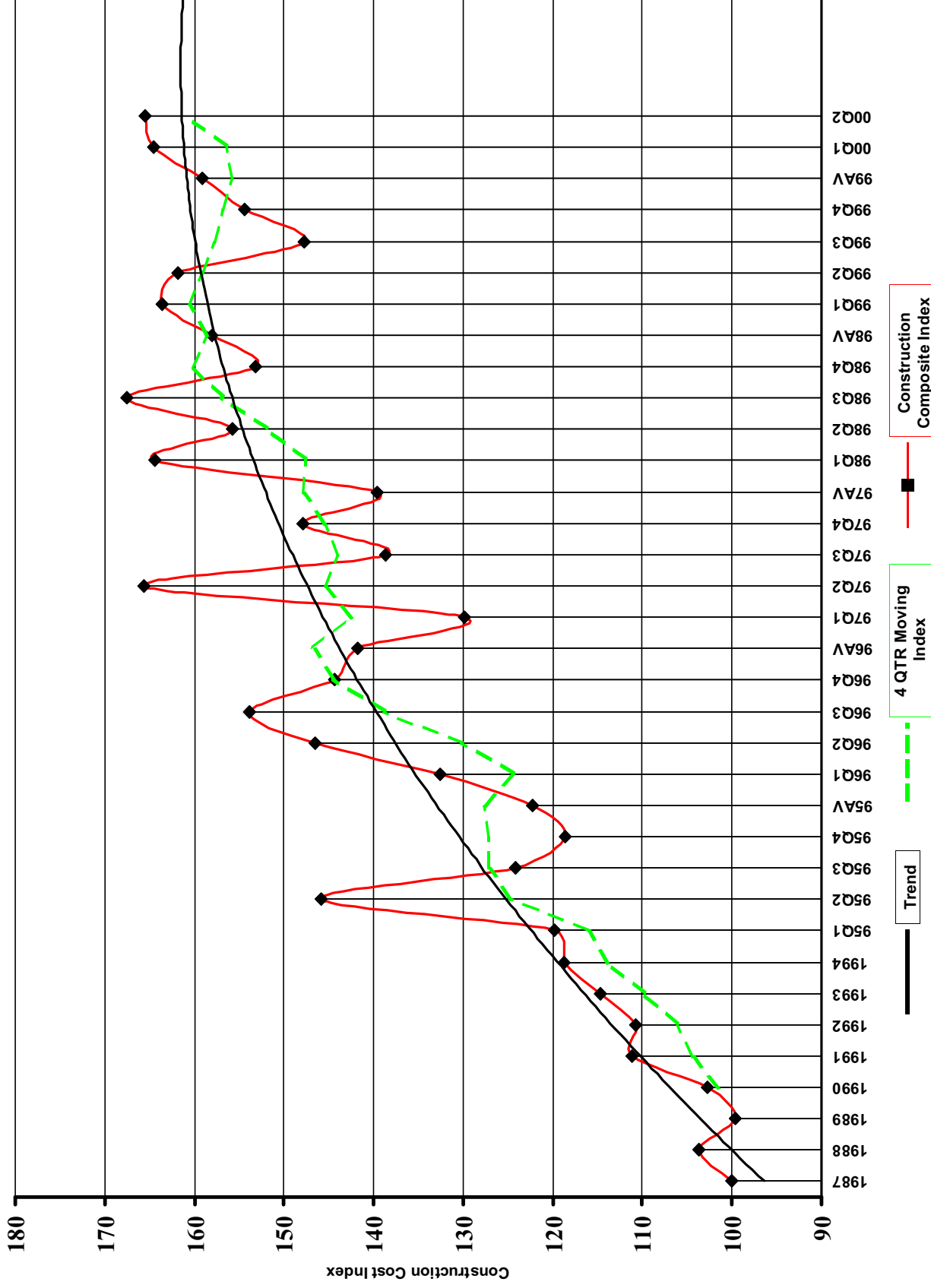
<b>Total</b>	<b>35</b>	<b>163</b>	<b>\$171,404,121.57</b>
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The number of bidders on all projects awards during this period averaged **4.66 bidders per contract.**

Index Items as a percent of the total construction cost:

$$\begin{array}{r}
 \text{2nd Quarter 2000 CCI items} \quad \quad \quad \$71,521,610.46 \\
 \hline
 \text{2nd Quarter 2000 all Construction items} \quad \$171,404,121.57 \\
 \hline
 \text{-----} = \text{-----} = 41.73\%
 \end{array}$$

# Colorado Highway Construction Cost Index Graph and Tabulations (1987 Base Year)



**Colorado Highway Construction Cost Index Graph and Tabulations (1987 Base Year)**

YEAR	QTR.	Earthwork		Asph. Pavement		Concrete Pavement		Surfacing		Structural Concrete		Reinforcing Steel		Structural Steel		Structural Index	Composite Index
		Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index	Rid Price	Index		
1987	1987	\$2.47	100.0	\$23.17	100.0	\$13.36	100.0	100.0	100.0	\$217.32	100.0	\$0.41	100.0	\$0.85	100.0	100.0	100.0
1988	1988	\$2.92	118.1	\$23.88	103.0	\$13.84	103.6	103.1	103.1	\$195.02	89.7	\$0.45	110.7	\$0.89	104.1	96.7	103.7
1989	1989	\$2.57	103.9	\$23.67	102.2	\$11.65	87.2	100.6	100.6	\$199.41	91.8	\$0.40	97.8	\$0.88	103.5	95.3	99.6
1990	1990	\$2.78	112.5	\$23.98	103.5	\$15.09	113.0	104.5	104.5	\$190.86	87.8	\$0.37	90.8	\$0.99	116.0	94.1	102.7
1991	1991	\$3.31	133.8	\$26.25	113.3	\$16.03	120.0	114.0	114.0	\$195.43	89.9	\$0.38	93.1	\$0.89	104.4	93.5	111.2
1992	1992	\$2.77	112.3	\$26.20	113.1	\$23.82	178.3	119.8	119.8	\$216.87	99.8	\$0.36	87.9	\$0.71	82.8	94.0	110.7
1993	1993	\$3.25	131.4	\$27.74	119.7	\$16.75	125.4	121.3	121.3	\$212.43	97.7	\$0.37	90.1	\$0.79	93.0	95.3	114.7
1994	1994	\$3.56	144.2	\$28.40	122.6	\$18.78	140.6	124.4	124.4	\$219.94	101.2	\$0.37	89.7	\$0.67	78.8	94.4	118.8
1995	95Q1	\$2.85	115.5	\$30.98	133.7	\$20.33	152.2	135.6	135.6	\$217.43	100.1	\$0.39	94.6	\$0.67	78.8	94.7	119.8
1995	95Q2	\$6.18	250.1	\$30.43	131.3	\$27.06	202.5	138.7	138.7	\$227.59	104.7	\$0.40	97.0	\$0.73	85.6	99.3	145.8
1995	95Q3	\$3.33	134.7	\$30.51	131.7	\$16.02	119.9	130.5	130.5	\$229.50	105.6	\$0.38	93.8	(\$1.00)	-1.0	102.7	124.1
1995	95Q4	\$3.33	134.9	\$28.43	122.7	\$21.81	163.2	126.9	126.9	\$192.09	88.4	\$0.40	97.8	\$0.95	111.7	94.9	118.6
1995	95AV	\$3.41	138.1	\$30.25	130.5	\$17.82	133.4	130.8	130.8	\$211.29	97.2	\$0.39	94.0	\$0.90	105.5	98.3	122.3
1996	96Q1	\$4.26	172.4	\$30.62	132.2	\$17.31	129.6	131.9	131.9	\$237.58	109.3	\$0.39	94.0	(\$1.00)	-1.0	105.6	132.5
1996	96Q2	\$5.11	206.9	\$31.35	135.3	\$34.29	256.7	147.8	147.8	\$237.47	109.3	\$0.43	103.7	\$1.02	119.1	110.2	146.5
1996	96Q3	\$4.48	181.2	\$36.31	156.7	\$16.92	126.6	153.6	153.6	\$312.26	143.7	\$0.44	106.7	\$1.32	154.8	138.8	153.9
1996	96Q4	\$4.05	164.1	\$35.94	155.1	(\$1.00)	-1.0	155.1	155.1	\$237.47	109.3	\$0.45	108.9	(\$1.00)	-1.0	109.2	144.4
1996	96AV	\$4.46	180.5	\$32.73	141.3	\$19.22	143.9	141.5	141.5	\$265.98	122.4	\$0.43	105.1	\$1.09	128.5	120.2	141.7
1997	97Q1	\$3.60	145.8	\$31.47	135.8	\$20.81	156.0	137.9	137.9	\$229.63	105.7	\$0.42	103.5	\$0.97	113.7	106.9	129.9
1997	97Q2	\$7.09	286.8	\$34.08	147.1	\$24.42	182.8	150.7	150.7	\$269.94	124.2	\$0.46	111.7	\$1.12	131.6	123.3	165.7
1997	97Q3	\$4.08	165.1	\$31.55	136.2	\$24.15	180.8	140.8	140.8	\$257.62	118.5	\$0.49	119.3	\$1.06	124.7	119.9	138.6
1997	97Q4	\$3.65	147.9	\$37.66	162.5	\$18.84	141.1	160.3	160.3	\$268.22	123.4	\$0.45	110.8	(\$1.00)	-1.0	120.4	147.8
1997	97AV	\$4.24	171.7	\$32.92	142.1	\$21.39	160.1	143.9	143.9	\$246.29	113.3	\$0.45	110.8	\$1.01	117.9	113.8	139.6
1998	98Q1	\$5.30	214.4	\$36.20	156.2	\$30.88	231.2	164.0	164.0	\$292.00	134.4	\$0.48	116.2	(\$1.00)	-1.0	129.9	164.4
1998	98Q2	\$4.76	192.6	\$36.52	157.6	\$24.23	181.4	160.1	160.1	\$264.38	121.7	\$0.48	116.0	(\$1.00)	-1.0	120.3	155.8
1998	98Q3	\$2.69	230.4	\$35.21	141.9	\$34.18	255.9	162.6	162.6	\$295.21	135.8	\$0.22	126.6	(\$1.00)	-1.0	133.6	167.5
1998	98Q4	\$4.33	175.0	\$34.53	149.0	\$28.64	214.4	155.8	155.8	\$291.27	134.0	\$0.51	125.1	(\$1.00)	-1.0	131.9	153.1
1998	98AV	\$4.89	198.0	\$35.72	154.2	\$26.54	198.7	158.7	158.7	\$283.01	130.2	\$0.50	122.0	(\$1.00)	-1.0	128.2	158.1
1999	99Q1	\$5.91	239.4	\$36.57	157.8	\$18.57	139.0	155.9	155.9	\$335.29	154.3	\$0.59	144.9	\$0.54	63.8	134.1	163.5
1999	99Q2	\$5.34	216.0	\$35.09	151.4	\$21.90	163.9	152.7	152.7	\$326.59	150.3	\$0.61	149.8	\$1.15	135.3	147.1	161.8
1999	99Q3	\$4.42	178.8	\$36.62	158.1	\$24.59	184.1	160.7	160.7	\$298.62	137.4	\$0.52	125.5	(\$1.00)	-1.0	107.2	147.7
1999	99Q4	\$4.11	166.5	\$33.96	146.6	\$33.04	247.3	156.9	156.9	\$305.27	140.5	\$0.50	121.1	\$1.46	171.1	143.0	154.3
1999	99AV	\$4.94	199.8	\$35.23	152.0	\$22.78	170.5	153.9	153.9	\$310.56	142.9	\$0.54	132.0	\$1.41	165.3	145.3	159.2
2000	00Q1	\$5.11	206.9	\$36.84	159.0	\$21.73	162.7	159.4	159.4	\$341.22	157.0	\$0.45	110.2	(\$1.00)	-1.0	145.7	164.5
2000	00Q2	\$4.41	178.5	\$40.71	175.7	\$11.84	88.6	166.8	166.8	\$374.75	172.5	\$0.47	114.7	\$1.25	146.2	155.9	165.5

Insufficient Data (\$1.0), -1.0

## **COMMENTS:**

This Colorado Construction Cost Index is composed of six indicator items and based on the total quantities used during 1987 (unit index=100).

**Earthwork (Complete in place):** \$4.41 a cubic yard. Down \$0.70 from last quarter and down \$0.93 from the same quarter a year ago. This decrease can be attributed to a couple of bridge replacement projects that were bid very competitively, one on I-76 & SH 270 and the other in Colorado Springs.

**Bituminous Pavement:** \$40.71 a ton. Up \$3.87 from last quarter and up \$5.62 from the same quarter a year ago. Smaller quantities in various projects and the oil prices increase contributed to this increase.

**Concrete Pavement:** \$11.84 a square yard. Down \$9.89 from the last quarter and down \$10.06 from the same quarter a year ago. One big project on I-25 in Douglas County has accounted for the concrete pavement in this quarter.

**Structural Steel:** \$1.25 a pound. Due to insufficient quantities last quarter, no comparison can be made. However, this is up \$0.10 from the same quarter a year ago. One project on I-225 & Parker road contained all the structural steel for the quarter. The complexity of this project contributed to higher bid prices.

**Structural Concrete:** \$374.75 a cubic yard. Up \$33.53 from the prior quarter and up \$48.16 from the same quarter a year ago. This increase is attributed to complexity of I-225 & Parker road project, which contained more than 42% of the structure concrete for the quarter

**Reinforcing Steel:** \$0.47 a pound. Up \$0.02 from last quarter and down \$0.14 from the same quarter a year ago. The majority of the reinforcing steel used this quarter was epoxy coated. This caused the slight increase of this price.

## **SUMMARY:**

Increases were represented in four of the six construction items in the Construction Cost Index. Items showing decrease were Earthwork and Concrete Pavement.

Thirty-five projects were bid this quarter for a total of \$171,404,121.57. The competition for projects decreased from 4.86 to 4.66 bidders for each project on average. By comparison, 49 projects were bid last quarter and 33 in the same quarter last year.

Four metric projects were bid this quarter. Metric quantities have been converted into English units for inclusion in this report.

Neither Design/Build nor Lump Sum projects were bid this quarter.