

**Sierra County
Board of Supervisors'
Agenda Transmittal &
Record of Proceedings**

MEETING DATE: April 7, 2020	TYPE OF AGENDA ITEM: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Timed <input type="checkbox"/> Consent
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DEPARTMENT:	Public Works and Transportation
APPROVING PARTY:	Tim H. Beals, Director
PHONE NUMBER:	530-289-3201

AGENDA ITEM: Approval of Contract Change Order #6 for the Sierra Brooks Water System Project Making Contract Deletions and Additions to Conform to Approved Project Budget.

SUPPORTIVE DOCUMENTS ATTACHED: Memo Resolution Agreement Other

BACKGROUND INFORMATION: During the excavation of the pipeline to the new tank for the Sierra Brooks Water Improvement Project extensive rock was encountered. The contract has a bid item for rock excavation of \$1,400 per CY. This original contract item included 10 CY for a total of \$14,000. The actual quantity of rock removed in the excavation of this pipeline was 500 CY, this would equate to \$700,000 if paid at the contract price. The contract specifications allow for CSA 5 to file a claim seeking an adjustment in the Contract Price. Because the amount differs materially and significantly from the estimated quantity in accordance with Agreement Article 13.03.E. Unit Price Work. We have worked with the contractor RDC to determine the actual cost of this work and a 15% mark-up per the Article 11.04 Change of Contract Price C.2.a. The agreed to cost for the rock excavation is \$487.85 per CY. The actual cost to be paid for all 500 CY is \$243,925. This price includes a credit of \$29,787.36 for the reduction in regular excavation that was not required as a result of the extensive rock encountered. RDC has also agreed to reduce the cost of the 10 CY in the original contract to the actual cost rate of \$487.85 per CY, reduced from \$1,400 per CY, for a savings of \$9,121.50. The net increase to the contract total price for the rock excavation item is \$229,925. The detailed item cost is included in RDC report attached to the CCO.

FUNDING SOURCE: Sierra Brooks Water Project
GENERAL FUND IMPACT: No General Fund Impact
OTHER FUND:
AMOUNT: \$ N/A

ARE ADDITIONAL PERSONNEL REQUIRED?
 Yes, -- --
 No

IS THIS ITEM ALLOCATED IN THE BUDGET? Yes No
IS A BUDGET TRANSFER REQUIRED? Yes No

SPACE BELOW FOR CLERK'S USE

<p>BOARD ACTION:</p> <input type="checkbox"/> Approved <input type="checkbox"/> Approved as amended <input type="checkbox"/> Adopted <input type="checkbox"/> Adopted as amended <input type="checkbox"/> Denied <input type="checkbox"/> Other <input type="checkbox"/> No Action Taken	<input type="checkbox"/> Set public hearing For: _____ <input type="checkbox"/> Direction to: _____ <input type="checkbox"/> Referred to: _____ <input type="checkbox"/> Continued to: _____ <input type="checkbox"/> Authorization given to: _____	Resolution 2020- _____ Agreement 2020- _____ Ordinance _____ Vote: Ayes: Noes: Abstain: Absent: <input type="checkbox"/> By Consensus
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Date of Issuance: 03/23/2020	Effective Date: 03/23/2020
Owner: Sierra County Service Area 4A-5A	Owner's Contract No.: CSA 2019-002
Contractor: Farr Construction dba Resource Development Co.	Contractor's Project No.:
Engineer: Keith Knibb, Sauers Engineering	Engineer's Project No.:
Project: Sierra Brooks Water Systems Improvement - Phase II	Contract Name:

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

Description: Make the following items changes in accordance with contractor proposals and engineering plans;
 Complete 24 hour constant rate pump test for well under development per proposal provided via email from Sam Melvin 2/28/2020.
 Reduce Item 6 Rock Excavation 100 (10 CY @ \$1,400 per CY) total reduction -\$14,000.
 Add Extra work for rock excavation 500 CY at \$487.85 per CY per attached proposal dated 1/10/2020 and the revision agreed to at 02/12/2020 meeting per Jeff Farr email dated 3/17/2020.

Attachments: *Sierra Brooks Water System Improvements Project – Phase II Contract Items CCO6
 Rock Excavation Proposal dated 1/10/2020
 Email from Jeff Farr dated 3/17/2020*

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price: <u>\$ 4,380,393.00</u>	Original Contract Times: Substantial Completion: <u>August 20, 2020</u> Ready for Final Payment: <u>September 20, 2020</u> date
Decrease from previously approved Change Orders No. <u>1</u> to No. <u>5</u> : <u>\$(373,702.42)</u>	[Increase] [Decrease] from previously approved Change Orders No. <u>1</u> to No. <u>4</u> : Substantial Completion: <u>August 20, 2020</u> Ready for Final Payment: <u>September 20, 2020</u> Date
Contract Price prior to this Change Order: <u>\$4,006,690.58</u>	Contract Times prior to this Change Order: Substantial Completion: <u>August 20, 2020</u> Ready for Final Payment: <u>September 20, 2020</u> date
Increase of this Change Order: <u>\$238,745.00</u>	[Increase] [Decrease] of this Change Order: Substantial Completion: <u>August 20, 2020</u> Ready for Final Payment: <u>September 20, 2020</u> date
Contract Price incorporating this Change Order: <u>\$4,245,435.58</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>August 20, 2020</u> Ready for Final Payment: <u>September 20, 2020</u> date

RECOMMENDED:

Ready for Final Payment:

ACCEPTED:

By: _____	By: _____	By: _____
Engineer Keith Knibb	Owner Tim H. Beals	Contractor Jeff Farr
Title: _____	Title _____	Title _____
Project Engineer	Director of Transportation	President
Date: _____	Date _____	Date _____

Approved by Funding Agency (if applicable)

By: _____ Date: _____

Title: _____

Sierra Brooks Water System Improvements Project - Phase 2
Contract CSA 2019-002 Items

ITEM	CONTRACT ITEM	UNIT	QTY	PRICE	AMOUNT
1	Mobilization	LS	1	\$ 200,000.00	\$ 200,000.00
2	Traffic Control	LS	1	\$ 56,000.00	\$ 56,000.00
3	Clearing and Grubbing	LS	1	\$ 38,000.00	\$ 38,000.00
4	Sheeting, Shoring, and Bracing	LS	1	\$ 43,000.00	\$ 43,000.00
5	Erosion Control BMPs	LS	1	\$ 15,300.00	\$ 15,300.00
6	Rock Excavation	CY	10	\$ 1,400.00	\$ 14,000.00
7	350,000 Gallon Welded Steel Storage Tank	LS	1	\$ 281,088.00	\$ 281,088.00
8	Interior and Exterior Tank Coating	LS	1	\$ 178,700.00	\$ 178,700.00
9	Tank Grading, Site Development, and Access Road	LS	1	\$ 205,000.00	\$ 205,000.00
10	Tank Foundation	LS	1	\$ 55,000.00	\$ 55,000.00
11	Tank Piping, Valves, Vaults, and Drainage	LS	1	\$ 115,000.00	\$ 115,000.00
12	Tank Electrical, Instrumentation, and Telemetry	LS	1	\$ 110,000.00	\$ 110,000.00
13	12" Tank Inlet/Outlet Pipeline	LF	1787	\$ 95.00	\$ 169,765.00
14	Booster Pump Station Mechanical	LS	1	\$ 96,000.00	\$ 96,000.00
15	Booster Pump Station Building	LS	1	\$ 108,000.00	\$ 108,000.00
16	Booster Pump Station Site Work	LS	1	\$ 70,000.00	\$ 70,000.00
17	Booster Pump Station Paved Access and Driveway	SF	1500	\$ 49.00	\$ 73,500.00
18	Booster Pump Station Generator and Transfer Switch	LS	1	\$ 61,000.00	\$ 61,000.00
19	Booster Pump Station Electrical, Instrumentation, and Controls	LS	1	\$ 147,400.00	\$ 147,400.00
20	Utility connection to booster pump station	LS	1	\$ 2,000.00	\$ 2,000.00
21	Well Construction Mobilization and Demobilization	LS	1	\$ 44,000.00	\$ 44,000.00
22	Install and Cement 24-inch I.D. Steel Conductor Casing	LF	50	\$ 450.00	\$ 22,500.00
23	Drill 22-inch Diameter Hole to 450 Depth	LF	400	\$ 160.00	\$ 64,000.00
24	Conduct Electric Logging	LS	1	\$ 6,500.00	\$ 6,500.00
25	Install Blank 12-inch I.D. 0.25 Wall Mild Steel Casing	LF	280	\$ 65.00	\$ 18,200.00
26	Install Mill Slot Mild Steel Casing 0.25 Wall (0.07 Slot)	LF	80	\$ 87.00	\$ 6,960.00
27	Install Well Gravel (6x9 Gradation)	LF	400	\$ 70.00	\$ 28,000.00
28	Development by Airlift-Swabbing	HR	24	\$ 550.00	\$ 13,200.00
29	Development by Pumping and Surging	HR	24	\$ 350.00	\$ 8,400.00
30	Conduct Step Test	HR	9	\$ 350.00	\$ 3,150.00
31	Well No. 3 Pump Station Mechanical	LS	1	\$ 49,000.00	\$ 49,000.00
32	Well No. 3 Pump Station Building	LS	1	\$ 114,000.00	\$ 114,000.00
33	Well No. 3 Pump Station Site Work	LS	1	\$ 50,000.00	\$ 50,000.00
34	Well No. 3 Paved Access and Driveway	SF	600	\$ 110.00	\$ 66,000.00
35	Well No. 3 Generator and Transfer Switch	LS	1	\$ 61,000.00	\$ 61,000.00
36	Well No. 3 Pump Station Electrical, Instrumentation, and Controls	LS	1	\$ 149,800.00	\$ 149,800.00

37	Utility connection to well	LS	1	\$ 2,000.00	\$ 2,000.00
38	SCADA/Telemetry System	LS	1	\$ 205,600.00	\$ 205,600.00
39	10" Pipe and Fittings	LF	2610	\$ 55.00	\$ 143,550.00
40	8" Pipe and Fittings	LF	3610	\$ 45.00	\$ 162,450.00
41	6" Pipe and Fittings	LF	1803	\$ 35.00	\$ 63,105.00
42	12" Butterfly Valves	EA	2	\$ 8,400.00	\$ 16,800.00
43	10" Butterfly Valves	EA	2	\$ 7,900.00	\$ 15,800.00
44	8" Gate Valves	EA	2	\$ 7,800.00	\$ 15,600.00
45	Fire Hydrant Assembly	EA	10	\$ 6,800.00	\$ 68,000.00
46	Single Service Assembly	EA	10	\$ 2,800.00	\$ 28,000.00
47	Double Service Assembly	EA	145	\$ 3,486.00	\$ 505,470.00
48	2" Single Service Lateral	LF	1460	\$ 29.00	\$ 42,340.00
49	Water Meters	EA	189	\$ 475.00	\$ 89,775.00
50	Connection to Existing Water Mains	EA	6	\$ 11,740.00	\$ 70,440.00
51	Surface restoration, AC	SF	9000	\$ 6.50	\$ 58,500.00
52	Surface restoration, AB	SF	31000	\$ 4.50	\$ 139,500.00
53	Air Release Valve Assembly	EA	1	\$ 5,000.00	\$ 5,000.00
54	SWPPP Preparation and Implementation	LS	1	\$ 5,000.00	\$ 5,000.00
Sum of items					\$ 4,380,393.00
CCO 1 Removal Item #17,34,35 and 45					\$ (268,500.00)
NEW Contract Price				\$ 4,111,893.00	
CCO2 Items					
17	Booster Pump Station Paved Access and Driveway add back	LS	1	\$ 43,722.00	\$ 43,722.00
34	Well No. 3 Paved Access and Driveway add back	LS	1	\$ 33,871.00	\$ 33,871.00
38	SCADA/Telemetry System DEDUCT	LS	1	\$ (101,271.00)	\$ (101,271.00)
32	Well No. 3 Pump Station Building DEDUCT	LS	1	\$ (10,200.00)	\$ (10,200.00)
15	Booster Pump Station Building DEDUCT	LS	1	\$ (9,250.00)	\$ (9,250.00)
2	Traffic Control DEDUCT	LS	1	\$ (21,040.00)	\$ (21,040.00)
45	Fire Hydrant Assembly ADD BACK	EA	10	\$ 6,800.00	\$ 68,000.00
35	Well No. 3 Generator and Transfer Switch ADD BACK	LS	1	\$ 61,000.00	\$ 61,000.00
18	Booster Pump Station Generator and Transfer Switch DEDUCT	LS	-1	\$ 61,000.00	\$ (61,000.00)
41	6" Pipe and Fittings DEDUCT	LF	-500	\$ 35.00	\$ (17,500.00)
50	Connection to Existing Water Mains DEDUCT	EA	-1	\$ 11,740.00	\$ (11,740.00)
CCO2 Sub Total					\$ (25,408.00)
New Contract Total				\$ 4,086,485.00	
CCO3 Items					
46	Single Service Assembly ADD single service to lot 78 & 81 W. Sierra Brooks	EA	2	\$ 2,800.00	\$ 5,600.00
49	Water Meters ADD lot 81 W, Sierra Brooks and 153 Rancho Cir	EA	2	\$ 475.00	\$ 950.00
47	Double Service Assembly DEDUCT double service lots 78 & 79 W. Sierra Brooks	EA	-1	\$ 3,486.00	\$ (3,486.00)

48	2" Single Service Lateral ADD 50' for lot 81	LF	50	\$ 29.00	\$ 1,450.00
32	Well No. 3 Pump Station Building DEDUCT trench Drain add Single floor drain	LS	1	\$ (1,809.00)	\$ (1,809.00)
15	Booster Pump Station Building DEDUCT trench Drain add Single floor drain	LS	1	\$ (1,809.00)	\$ (1,809.00)
	CCO3 Sub-Total			\$ 896.00	
	New Contract Total		\$ 4,087,381.00		
CCO4 Items					
22	Install and Cement 24-inch I.D. Steel Conductor Casing Reduce qty	LF	-22	\$ 450.00	\$ (9,900.00)
23	Drill 22-inch Diameter Hole to 450 Depth Reduce Per Proposal	LF	-1	\$ 5,400.00	\$ (5,400.00)
25	Install Blank 12-inch I.D. 0.25 Wall Mild Steel Casing Remove	LF	-280	\$ 65.00	\$ (18,200.00)
25	Install Blank 10inch I.D. 0.25 Wall Mild Steel Casing Now ADD	LF	150	\$ 59.00	\$ 8,850.00
26	Install Mill Slot Mild Steel Casing 0.25 Wall (0.07 Slot) Remove	LF	-80	\$ 87.00	\$ (6,960.00)
26	Install Mill Slot Mild Steel Casing 0.25 Wall (0.07 Slot) ADD	LF	270	\$ 70.00	\$ 18,900.00
CCO4 1	12" Gate Valve ADD Per Proposal	EA	1	\$ 3,701.58	\$ 3,701.58
10	Tank Foundation Reduce Per Proposal	LS	-1	\$ 19,950.00	\$ (19,950.00)
	CCO4 Sub-Total			\$ (28,958.42)	
	New Contract Total		\$ 4,058,422.58		
CCO5 Items					
46	Single Service Assembly Change from 10 +2 CCO3 new total 24	EA	12	\$ 2,800.00	\$ 33,600.00
47	Double Service Assembly Change from 145 - 1 CCO3 new total 118	EA	-26	\$ 3,486.00	\$ (90,636.00)
49	Water Meters Change from 189 +2 CCO3 new total 196	EA	5	\$ 475.00	\$ 2,375.00
	Existing Lateral Extension	FT	101	\$ 29.00	\$ 2,929.00
	CCO5 Sub-Total			\$ (51,732.00)	
	New Contract Total		\$ 4,006,690.58		
CCO6 Items					
CCO 6-1	Contant rate pump test	HR	24	\$ 367.50	\$ 8,820.00
6	Rock Excavation	CY	-10	\$ 1,400.00	\$ (14,000.00)
CCO6-2	Rock Excavation extra work	LS	500	\$ 487.85	\$ 243,925.00
	CCO6 Sub-Total			\$ 238,745.00	
	New Contract Total		\$ 4,245,435.58		

Contract total must not exceed \$4,111,893

\$ 4,111,893.00 New Total \$4,245,435.58

Over/Under Budget \$ (133,542.58)



FARR CONSTRUCTION CORPORATION dba
RESOURCE DEVELOPMENT COMPANY

January 10, 2020

Keith Knibb
Sauers Engineering, Inc.
440 Lower Grass Valley Road, Suite A
Nevada City, CA 95959

SUBJECT: Sierra Brooks Water System Improvements – Phase 2
Rock Excavation Change Order

Dear Keith,

We have received your letter dated December 23, 2019. The rock excavation required to install the 12” water line from the new tank to Well Building #3 was done so under the complete knowledge of the inspector for Sierra County, who was present when the rock was first encountered and continually throughout the rock excavation processes. The situation was brought to the inspector’s attention immediately, and work continued. Also, you received immediate notice by phone call from Sam Melvin on Monday, September 30, 2019 and again by email on October 2, 2019. At no point did RDC receive a notice to stop work or stand by, which would have required us to begin charging the County for standby time.

We agree with the field measurements made by the County’s inspector of 500 cubic yards. As you correctly stated in your letter, the excess of excavation beyond that estimated in the bid schedule remains at 490 cubic yards.

In response to the County’s claim seeking an adjustment in the Contract Price, please see the two attachments included with this letter. The first is an itemized summary for additional excavation of 490 cubic yards of rock, with a contractor’s fee of 15 percent. The second attachment is an itemized, deductive credit to the County for excavation which was to be paid as part of Bid Item 13. Also attached are the Caltrans Equipment Rates utilized.

A change of the contract price for the additional 490 cubic yards of rock could encompass these two attachments, in the grand total of two hundred thirty-nine thousand, forty-six dollars and seventy-six cents (\$239,046.76), a change of the contract unit price to \$487.85 per cubic yard.

Sincerely,


Paul Orphan



RESOURCE DEVELOPMENT COMPANY

Job No.: 19025

DATE 1/10/2020

**Sierra Brooks Phase 2 Improvements
12" Waterline Trench Rock Excavation Change Order**

EQUIPMENT					
	HOURLY RATE	QTY		HOURS	SUBTOTAL
Hitachi 200 Excavator	75.40	1.00		160.00	12,064.00
Loader	61.70	2.00		160.00	19,744.00
Work Truck(F-350)	38.38	1.00		160.00	6,140.80
Water Truck	40.65	1.00		160.00	6,504.00
Transport with End Dump Trailer	123.65	1.00		80.00	9,892.00
Sanitary Facilities	1.25	1.00		160.00	200.00
Fuel Storage Tank	1.00	1.00		160.00	160.00
John Deere 210G LC	105.70	1.00		160.00	16,912.00
Stanley Breaker 5000#	42.61	1.00		160.00	6,817.60
CAT 740B Articulating Truck	247.51	1.00		160.00	39,601.60

LABOR					
	HOURLY RATE	QTY		HOURS	SUBTOTAL
Superintendent	120.00	1.00		160.00	19,200.00
Project Manager	120.00	1.00		40.00	4,800.00
Project Engineer	120.00	1.00		160.00	19,200.00
Operator - (3)	102.89	3.00		160.00	49,387.20
Laborer- (2)	72.33	2.00		160.00	23,145.60

MATERIAL					
	MATERIAL COST	TAX			SUBTOTAL

SUBCONTRACTOR					
	DIRECT COST				SUBTOTAL
	0.00				0.00
	0.00				0.00
	0.00				0.00
	0.00				0.00

TOTALS					
	SUBTOTAL	MARK-UP %	MARK-UP		TOTAL
Equipment	118036.00	0%	0.00		\$ 118,036.00
Labor	115732.80	0%	0.00		\$ 115,732.80
Material	0.00	0%	0.00		\$ -
Subcontractor	0.00	0%	0.00		\$ -
Bonds & Insurance (3%)	0.00	0%	0.00		\$ -

INCREASE IN CONTRACT TIME

SUBTOTAL \$ 233,768.80
 CONTRACTOR'S FEE 15.0% \$ 35,065.32

Submitted By: Sam Melvin

C.O. TOTAL \$ 268,834.12



RESOURCE DEVELOPMENT COMPANY

Job No.: 19025

DATE 1/10/2020

**Sierra Brooks Phase 2 Improvements
12" Waterline Trench Excavation Credit**

EQUIPMENT					
	HOURLY RATE	QTY		HOURS	SUBTOTAL
Hitachi 200 Excavator	75.40	1.00		24.00	1,809.60
Loader	61.70	2.00		24.00	2,961.60
Work Truck(F-350)	29.60	1.00		24.00	710.40
Water Truck	40.65	1.00		24.00	975.60
Sanitary Facilities	1.25	1.00		24.00	30.00
CAT 740B Articulating Truck	247.51	1.00		24.00	5,940.24

LABOR					
	HOURLY RATE	QTY		HOURS	SUBTOTAL
Superintendent	120.00	1.00		24.00	2,880.00
Project Manager	120.00	1.00		6.00	720.00
Sr. Project Engineer	120.00	1.00		24.00	2,880.00
Operator - (3)	102.89	3.00		24.00	7,408.08
Laborer- (2)	72.33	2.00		24.00	3,471.84

MATERIAL					
	MATERIAL COST	TAX			SUBTOTAL

SUBCONTRACTOR					
	DIRECT COST				SUBTOTAL
	0.00				0.00
	0.00				0.00
	0.00				0.00
	0.00				0.00

TOTALS					
	SUBTOTAL	MARK-UP %	MARK-UP		TOTAL
Equipment	12427.44	0%	0.00		\$ 12,427.44
Labor	17359.92	0%	0.00		\$ 17,359.92
Material	0.00	0%	0.00		\$ -
Subcontractor	0.00	0%	0.00		\$ -
Bonds & Insurance (3%)	0.00	0%	0.00		\$ -

INCREASE IN CONTRACT TIME					
				SUBTOTAL	\$ 29,787.36
				C.O. TOTAL	\$ 29,787.36

Submitted By: Sam Melvin

State of California
California State Transportation Agency

Department of Transportation
Division of Construction

Labor Surcharge and Equipment Rental Rates

(Cost of Equipment Ownership)



Effective April 1, 2019 through March 31, 2020



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FOR DOUBLE-SIDED PRINTING

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USER'S GUIDE
FOR LABOR SURCHARGE AND EQUIPMENT RENTAL RATES
April 1, 2019 - March 31, 2020

Equipment Rental Rates are available on the Internet at:

<http://www.dot.ca.gov/hq/construc/equipmnt.html>

Miscellaneous Equipment Rental Rates are available on the Internet at:

<http://www.dot.ca.gov/hq/construc/misceqrr/index.htm>

The miscellaneous listing is updated daily.

Changes

Books are no longer available in hard copy and should be downloaded from the internet and printed.

Changes to the equipment rates in the April 1, 2019 book are the result of: 1) fuel costs increased; 2) interest rates increased; 3) Producers' Price Index increased; 4) no change in sales tax; and 5) no change in freight (F.O.B.) rates.

Labor Surcharge

The labor surcharge compensates the contractor for statutory payroll items stipulated by various governmental agencies. The six items included are worker's compensation, social security, Medicare, Federal unemployment insurance, State unemployment insurance, and State training taxes. The general rate is an average of the job classifications common to Caltrans projects. The labor surcharges in the April 1, 2019 book are the result of decreases in worker's compensation rates. The rates were derived from using the pure premium rate approved by the Insurance Commissioner effective January 1, 2019 and increasing it by the historical statewide average expense. In the calculation of the labor surcharge for overtime work, the worker's compensation is not included on the premium portion of overtime, as provided by worker's compensation regulations.

The surcharge percentage to be applied to the actual wages paid as provided in Section 9-1.04B [9-1.03A(1b)] of the *Standard Specifications* will be **10 percent for regular time (RT)** and **10 percent for overtime (OT)**.

Exceptions to the general rate are listed below. These classifications were chosen because of high worker's compensation insurance costs. Forward questions, regarding worker's compensation rating and proper labor surcharge usage, to the rental rate personnel in the Division of Construction.

EXCEPTIONS

<u>Type of Work Performed</u>	<u>Labor Surcharge Percent</u>	
	RT	OT
Concrete Construction - Bridge.....	10	10
Drilling	13	12
Fence & Guardrail Construction	10	10
Erection of structural metal for metal bridges, excluding sign bridge	13	12
Landscape Gardener	10	10
Mobil Crane & Hoist Service.....	13	12
Painting Steel Structures or Bridges	14	13
Pile Driving, not including drilled, cast-in-place concrete piles	16	15
Sign Erection or Repair	13	12
Wrecking & Demolition	12	11

An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act.

Background

By the authority described in Section 9-1.04 [9-1.03A] of the *Standard Specifications*, compensation for work paid by force account is determined to be the total of the direct equipment costs (rental rate) plus a 15 percent markup for all overhead not included as direct costs. The direct costs include fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance, depreciation, storage, cost of facilities capital, overhaul and all incidentals. The labor costs required to provide the above listed items are also included. The operator cost is not included in the equipment rate.

The calculated rate represents the cost of owning and operating the equipment, which is likely to be lower than the rate charged by a rental yard. The rental yard rate may include additional overhead and profit as well as a premium for short-term rentals. In certain situations, factors are applied to the calculated rates to provide ownership-only rates for delay situations or operating-only rates for overtime situations. The rates are calculated using factors for the direct cost items described above. The factors represent an average and are applied to all makes and models of equipment within the class. **All rates are hourly, unless stated otherwise.**

Overtime and Multiple Shifts

Certain equipment costs are fixed on an annual basis, no matter how many hours are worked. Once an estimate of the costs and hours of use is made, a rate can be determined. When more than the estimated number of hours are worked (Overtime or Multiple Shift), a duplication of payment occurs on the fixed cost portion of the equipment rate.

In order to avoid this duplication, Caltrans uses a reduced rate for the Overtime or Multiple Shift situations. The definition of Overtime or Multiple Shift periods is:

Overtime hours occur after the equipment has worked at force account, eight hours per day (or after the daily equivalent of forty hours per week for special work schedules - 4/10 or 9/80). Multiple shift hours will be paid at the same rate as overtime hours.

The hours shown on the Daily Extra Work Bill will determine when the Overtime and Multiple Shift is to be used. **When the hours worked on force account are eight or less, straight time rates will be used.** When the hours worked on force account are more than eight, Overtime and Multiple Shifts rates will be used. Saturday, Sunday or holiday work will be paid at the overtime rate except in those cases where these days are considered working days in the special provisions.

Be advised the computed overtime rates are no longer rounded and now equal the product of the straight time rate and overtime factor. The Overtime and Multiple Shift Factors are recalculated annually to reflect changes in the operating costs.

Delays

As described in Section 8-1.07C [8-1.09] of the *Standard Specifications*, the Delay Factor may be applied to the equipment rental rate. The Delay Factor may be the basis for compensation for idle equipment time on an excusable delay. The factor has been calculated to include the ownership costs without including operating costs. The Delay Factor recovers all the contractor's non-operating costs in an eight hour day. If payment is made for equipment on an excusable delay, it is limited to eight hours per day or forty hours per week maximum.

The NONOP class for non-operated items and the TRAFc class for traffic safety devices have been separated from traditional "rolling stock" equipment when calculating the Delay Factor. These classes are comprised of items whose depreciable lives are related to the number of uses per year, rather than the number of hours per year. Accordingly, the reasonable compensation for the contractor's actual loss has been estimated to equal the cost of facilities capital. **It should be recognized that these items must be out of service before the Delay Factor is applied. For example, if work behind K-rail is delayed, the K-rail should be paid straight time until it is no longer controlling traffic.**

Any use of this factor must have the prior approval of the resident engineer. The Delay Factor is recalculated annually to reflect changes in the operating costs.

Use of Daily Extra Work Bill

Identification codes and rates are intended to be used with the Department's Internet change order billing system. The class is abbreviated using a 5 digit alpha-code, the make (manufacturer), a 4 digit alpha-code, and the code a 7 digit alpha-numeric code. All three codes must be used to define the equipment when using the automated pay system. Since the majority of items are described by per hour rates, each line has an entry for hours with an allowable maximum of 24. Special items with other than hourly rates should be appropriately checked and then entered in the Regular Hours column. For example, 50 Traffic Cones used 3 days (converts to 1.5, 100-cone-days) requires 1.5 be entered in the Regular Hours column. Note that any entry in the Delay Factor column will automatically apply the Delay Factor to every equipment entry on the current report.

Whenever an identification code cannot be found or the rate for a particular date of work performed is not available, updated information should be requested from the resident engineer. It is the resident engineer's responsibility to establish rates for equipment not found in the *Labor Surcharge and Equipment Rental Rates* publication. Support for this determination is available from both District and Headquarters Construction Offices. **Rates are regularly superseded during contract periods, so avoid the use of old publications or expired rates.**

The equipment is presented with a standard configuration capable of performing work commonly encountered on Caltrans projects. Special attachments or accessories are described under the classification heading in the *Labor Surcharge and Equipment Rental Rates* publication. Attachments other than those described by these remarks will be paid only upon direction of the resident engineer.

160H	3385	\$104.41
163H	3390	\$110.26
JOHN DEERE	[DEER]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-570A	3890	\$44.27
JD-570B	3892	\$51.84
JD-670	3900	\$56.78
JD-670A	3905	\$63.08
JD-670CH	3907	\$83.05
JD-770	3910	\$64.54
JD-770A, 770A-H	3915	\$76.25
JD-770B	3916	\$83.87
JD-772CH	3930	\$101.01
GALION	[GALN]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
A-400E	4940	\$61.65
T-400A	4980	\$58.92
T-500C	5150	\$68.31
T-500L	5204	\$67.24
T-500M	5210	\$70.24
KOMATSU	[KOMA]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
GD 505A-2	8980	\$64.46
GD 515A-1	8986	\$67.39
GD 605A-2	9000	\$71.08
GD 615A-1	9005	\$72.38
GD 625A-1C	9007	\$102.47
GD 655A-2	9010	\$78.80

HAMMERS, DEMOLITION & PILE	[HAMMR]
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DELAY FACTOR = 0.24 **OVERTIME FACTOR = 0.79**
 Includes attachments, accessories and power unit. Does not include carrier.

ABI	[ABI]
<u>Model</u>	<u>Code</u> <u>Rate</u>
HVR-60	0100 \$36.77

AMERICAN PILE DRIVING	[APE]
EQUIPMENT	
<u>Model</u>	<u>Code</u> <u>Rate</u>
150	0010 \$157.69
180	0050 \$215.56
200/500	0060 \$241.49
300 VIBRO	0075 \$267.43
400B VIBRO	0085 \$429.42

ALLIED STEEL & TRACTOR	[AS&T]
<u>Model</u>	<u>Code</u> <u>Rate</u>
800	0300 \$55.64
HYRAM 720	0310 \$6.05

HYRAM 725	0320	\$11.38
HYRAM 730	0330	\$13.86
HYRAM 740	0340	\$19.77
HYRAM 750	0350	\$21.95
HYRAM 77	0360	\$9.14
HYRAM 770	0370	\$22.29
HYRAM 780	0380	\$36.25
HYRAM 790	0390	\$47.49
HYRAM 88	0400	\$15.58

DELMAG	[DELM]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
D-12	0500	\$24.58
D-16	0510	\$35.68
D-22	0520	\$56.72
D-30	0530	\$41.83
D-30-32	0540	\$62.32
D-36-32	0560	\$81.13
D46-32	0570	\$95.65
D62-22	0580	\$156.35
D100-13	0590	\$246.68

FOSTER	[FOST]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
1700	0600	\$132.00
4030	0630	\$185.46
FNV-1800	0660	\$111.80
FNV-4150	0693	\$237.76

HYDRAULIC POWER SYS	[HPSI]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
150	0420	\$93.69
260	0430	\$148.26
300	0440	\$178.06

I.C.E.	[ICE]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
44-50	0450	\$224.66
216	0460	\$80.92
416L	0470	\$134.24
812	0480	\$210.05

KENT	[KENT]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
KHB10G	0700	\$18.69
KHB 15G	0710	\$29.61
KHB 30G	0750	\$30.43
KHB 40G	0760	\$52.64

NPK	[NPK]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
4XE	0795	\$16.53
6XA	0800	\$13.23

H-10XB	0810	\$35.90
H-12X	0815	\$37.19
H-16X	0820	\$31.99
H-20X	0840	\$36.18
H4X,HXA	0860	\$11.10
H7X	0880	\$14.35

**HYDRAULIC CRANES & EXCAVATORS, [HCECL]
CRAWLER MOUNTED**

DELAY FACTOR = 0.19 OVERTIME FACTOR = 0.83
Includes all attachments and accessories required for lifting or digging.
Pavement breaker or compactor attachments are not included.

OKADA **[OKAD]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
UB-5	0900	\$7.84
UB-8	0950	\$15.26

BANTAM **[BANT]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 266	0680	\$81.48
C 366	0690	\$94.47
C 744	1075	\$62.05

RAMMER **[RAMR]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
S-84	1000	\$32.05
S-86	1050	\$34.53

CASE **[CASE]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
9030B	0100B	\$95.00
9040	0110	\$94.47
9060B	0120B	\$198.29
40E E-Boom	1600	\$74.84
40E Y-Boom	1601	\$75.24
50E	1602	\$94.64
125B	1602H	\$77.15
170C	1602N	\$107.12
220B	1602R	\$137.75
880B Y-Boom	1609	\$53.29
980B	1615	\$82.68
1080	1615E	\$72.28
1080B	1615J	\$73.91
1280	1616	\$99.05
1280B	1616E	\$92.95

STANLEY **[STAN]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MB250	1100	\$5.99
MB2900	1120	\$23.97
MB4900	1140	\$42.61
MB550	1160	\$9.47
MB800	1180	\$14.10

TELEDYNE **[TELD]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
950X	1190	\$34.90
TB1025	1195	\$38.36
TB1425X	1200	\$34.86
TB2225X	1220	\$65.16
TB425	1240	\$13.85
TB825X	1260	\$23.97

TRAMAC **[TRMC]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BRH1100	1300	\$36.86
BRH125	1310	\$11.31
BRH250	1320	\$12.93
BRH400	1330	\$12.19
BRH620	1340	\$24.18
BRH750	1350	\$22.26
BRV950	1360	\$23.48

CATERPILLAR **[CAT]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
304 CR	0200	\$29.99
305C CR	0250	\$40.72
308E2 CR SB	0270	\$47.31
312	0300	\$49.06
312C	0300C	\$59.99
312CL	0300CL	\$60.18
314CL CR	0302CLR	\$61.16
315L	0305	\$59.46
320	0310	\$78.35
320BL	0312	\$82.68
320C	0312C	\$93.76
320CL	0312CL	\$106.48
320L	0315	\$79.80
321C LCR	0320R	\$115.86
321D LCR	0321R	\$113.41

TUNKER **[TUNK]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
40.01	1400	\$170.91
40.05	1450	\$170.91
60.05	1460	\$147.96

VULCAN **[VULC]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1	1500	\$26.58

322L	0325	\$97.96	490	1660	\$40.83
325	0330	\$103.39	490E	1660E	\$52.09
325BL	0335	\$121.59	690A	1685	\$56.24
325L	0340	\$108.12	690B	1695	\$69.88
328D LCR	0343DR	\$139.93	690C	1697	\$64.31
330BL	0345	\$148.94	690D	1697D	\$67.46
330CL	0345CL	\$161.78	690E LC	1697ELC	\$78.06
330D L	0345DL	\$192.94	790	1698	\$81.06
330L	0350	\$136.27	790D	1698D	\$86.58
345BL	0355	\$191.53	790E LC	1698ELC	\$95.55
350L	0360	\$203.94	792	1699	\$95.99
375L	0365	\$323.31	890	1700	\$129.58
205	1617	\$33.66	890A	1705	\$118.75
211	1617E	\$49.59	892D LC	1708	\$110.43
213	1617H	\$54.60	990	1720	\$141.33
215	1618	\$55.75	992D LC	1722	\$160.53
215B LC	1619E	\$62.42	30	1725	\$19.37
215C	1619F	\$68.80	50	1730	\$30.88
215D	1619G	\$76.40	70	1735	\$28.48
225	1620	\$79.31	200LC	1745	\$89.61
225LC	1621	\$79.83	DROTT	[DROT]	
225D LC	1622	\$100.26	<u>Model</u>	<u>Code</u>	<u>Rate</u>
227	1623	\$82.90	35D E boom	1835	\$56.77
229	1625	\$107.68	35D Y boom	1845	\$57.18
231D	1630	\$123.12	40D E boom	1930	\$71.15
231DLC	1635	\$124.69	40D Y boom	1965	\$76.30
235	1640	\$127.18	50D	2005	\$92.19
235B	1642	\$141.53	FIAT-ALLIS	[F-A]	
235 Front Shovel	1645	\$137.00	<u>Model</u>	<u>Code</u>	<u>Rate</u>
235B Front Shovel	1647	\$152.65	FE 18	9000	\$51.41
235C	1648	\$161.05	FE 20 HD	9010	\$65.03
235DLC	1649	\$166.94	FE 20 LC	9020	\$61.14
245	1650	\$214.31	FE 28	9030	\$85.90
245B	1650B	\$236.21	FE 40 L	9040	\$147.83
245 Front Shovel	1652	\$226.13	GRADALL	[GRAD]	
245B Front Shovel	1652B	\$251.69	<u>Model</u>	<u>Code</u>	<u>Rate</u>
E 180	1653	\$66.58	G 660	0150	\$69.65
EL 180	1654	\$67.73	G 660B	0160	\$88.21
EL 200B	1654E	\$72.54	G 660C	0170	\$88.96
E 240	1655	\$85.68	G 880B	0210	\$95.07
EL 240	1656	\$87.16	G 880C	0215	\$91.31
E 300	1657	\$107.50	G 1000	0230	\$148.76
E 300B	1657B	\$119.30	XL4200	0260	\$95.36
EL 300	1658	\$109.41	XL5200	0280	\$116.25
EL 300B	1658B	\$121.37	HITACHI	[HIT]	
JOHN DEERE	[DEER]		<u>Model</u>	<u>Code</u>	<u>Rate</u>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	UH 07LC	2630	\$67.17
225D LC	1575D	\$105.70	UH 062	2660	\$71.93
330C LC	1600C	\$151.12			
450LC	1645	\$185.30			

UH 172	2695	\$131.38	K 916	4717	\$142.99
UH 122	2750	\$87.63	SK270LC MARK IV	4720	\$111.99
EX 150	2797	\$62.15	SK400LC MARK IV	4725	\$197.84
EX 200 LC	2800	\$75.40	KOEHRING	[KOEH]	
EX 270 LC	2806	\$111.28	<u>Model</u>	<u>Code</u>	<u>Rate</u>
EX 300LC-2	2807	\$130.74	366 post 1980	4752	\$110.70
EX 300LC-3	2807A	\$134.27	466E	4990	\$127.54
EX 330LC-5	2807B	\$155.48	566	5160	\$139.22
EX 370-5	2807F	\$155.05	666, 666E	5225	\$176.15
EX 400 LC	2808	\$173.17	866, 866E	5235	\$207.10
EX 450LC-5	2808K	\$214.32	6611	6000	\$41.54
EX 550LC	2809	\$253.16	6614	6005	\$51.03
EX 700	2810	\$303.73	6612	6010	\$49.67
EX 750-5	2815	\$342.90	6620	6015	\$70.92
EX 1100	2880	\$393.82	6625	6020	\$86.39
HYUNDAI	[HYUN]		6633	6029	\$122.40
<u>Model</u>	<u>Code</u>	<u>Rate</u>	6644	6040	\$162.88
200LC	2950	\$74.95	KOMATSU	[KOMA]	
210LC-3	2952C	\$93.05	<u>Model</u>	<u>Code</u>	<u>Rate</u>
280LC	2960	\$110.90	PC 120-5	9485	\$53.48
290LC	2970	\$115.60	PC 150-1	9490	\$47.73
450LC	3010	\$174.05	PC 150-3	9495	\$58.93
INTERNATIONAL	[INTL]		PC 200 LC-2	9500	\$59.67
<u>Model</u>	<u>Code</u>	<u>Rate</u>	PC 200-5	9504	\$77.75
630	4250	\$52.89	PC 200 LC-3	9505	\$72.20
640 HD	4260	\$69.95	PC 200 LC-5	9506	\$79.02
650 HD	4280	\$79.53	PC 220 LC-2	9510	\$76.97
KATO	[KATO]		PC 220 LC-3	9515	\$89.49
<u>Model</u>	<u>Code</u>	<u>Rate</u>	PC 220 LC-5	9516	\$96.73
HD450 VII	3050	\$50.56	PC 220 LC-6	9516F	\$105.12
HD700 VII LC	3060	\$73.23	PC 220 LC-7	9516G	\$113.41
HD1250 VII LC	3080	\$122.94	PC 280 LC-3	9517	\$101.15
KOBELCO	[KOBL]		PC 300 LC-1, LC-2	9520	\$99.25
<u>Model</u>	<u>Code</u>	<u>Rate</u>	PC 300 LC-3	9525	\$118.79
SK200LC MARK III	4687	\$78.46	PC 300 LC-5	9526	\$135.35
K 903B	4688	\$36.25	PC 300 LC-6	9526A	\$146.85
K 904D	4693	\$39.47	PC 360 LC-3	9527	\$135.89
K 904E	4694	\$41.59	PC 400 LC-1	9530	\$134.96
K 904 Mark II	4694A	\$41.50	PC 400 LC-3	9535	\$158.48
K 905	4695	\$44.62	PC 400 LC-5	9536	\$178.03
K 905A LC	4697	\$48.21	PC 400 LC-6	9537	\$200.82
K 907C	4700	\$64.66	PC 600 LC-6	9539	\$280.25
K 907D	4702	\$69.57	PC 650-1	9540	\$247.42
K 907 LC	4704	\$70.32	PC 650-1 Front Shovel	9550	\$262.26
K 909A	4710	\$90.02	PC 650-3	9552	\$263.61
K 909 LC	4711	\$92.56	PC 750-6	9555	\$338.26
K 912A	4712	\$106.61	PC 1000-1	9560	\$403.17
K 914	4715	\$127.79	PC 1000 LC-1	9565	\$415.81
			PC 1100 LC-6	9575LC	\$465.23

LOADERS, RUBBER TIRE**[LDRRT]****DELAY FACTOR = 0.13 OVERTIME FACTOR = 0.88**

Includes all attachments and accessories. Clam-action buckets, 4WD and backhoes are excluded unless otherwise noted.

ALLIS-CHALMERS**[A-C]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
710C	0747	\$32.92
714B	0750	\$31.99
714C w/ backhoe	0752	\$34.57
715B w/ backhoe	0765	\$33.96
715C w/ backhoe	0767	\$34.83

CASE**[CASE]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
W-11	1365	\$31.15
W-11B	1368	\$37.84
W-18	1444	\$52.01
W-18 9213140 serial	1450	\$55.62
W-18B	1460	\$60.10
W-20	1472	\$55.74
W-20B	1480	\$56.54
W-20C	1482	\$60.91
W-30	1565	\$83.34
480B	1636	\$25.90
480B w/ backhoe	1640	\$27.22
480C	1650	\$33.55
480C w/ backhoe	1660	\$35.14
480D	1662	\$37.69
480D w/ backhoe	1664	\$39.67
480E w/ backhoe	1666	\$32.58
480E LL	1667	\$31.34
480F w/ backhoe	1668	\$33.91
480F LL	1669	\$32.11
480LL	1677	\$37.74
570L XT 4WD	1690	\$37.03
580B w/ backhoe	1705	\$34.15
580C	1710	\$27.34
580C w/ backhoe	1715	\$29.28
580D	1717	\$28.72
580D w/ backhoe	1720	\$31.26
580 Super D	1725	\$31.35
580 Super D w/ backhoe	1727	\$33.94
580 Super E	1731	\$32.15
580 Super E w/ backhoe	1735	\$34.94
580K w/ backhoe	1739	\$35.24
580K 4WD w/ backhoe	1740	\$36.34
580 Super K w/ backhoe	1742	\$38.92
580L w/ backhoe	1743	\$39.19
580 Super L 4WD w/ backhoe	1744	\$45.60

590 Turbo w/ backhoe	1745	\$47.54
590 Super L 4WD w/ backhoe	1746	\$50.02
621	1750	\$64.17
721	1752	\$78.00
821	1754	\$95.48
680E w/ backhoe	1840	\$44.65
680G w/ backhoe	1850	\$43.34
680H w/ backhoe	1852	\$46.28
680K w/ backhoe	1854	\$50.36
680L w/ backhoe	1856	\$51.11
680L 4WD w/ backhoe	1857	\$51.92
780 w/ backhoe	1864	\$57.01
780B w/ backhoe	1866	\$61.38
780C w/ backhoe	1867	\$62.53
780D w/ backhoe	1868	\$63.31
780D 4WD w/ backhoe	1869	\$64.72

CATERPILLAR**[CAT]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
416 w/ backhoe	1860	\$35.27
416 Series II w/ backhoe	1860A	\$35.51
416B 4WD w/ extend-a-hoe	1861A	\$43.86
416C 4WD w/ backhoe	1861C	\$45.54
416D w/ backhoe	1861D	\$40.60
416D 4WD w/ backhoe	1861D4	\$41.72
420D w/ backhoe	1861M	\$45.48
420D 4WD w/ backhoe	1861M4	\$46.60
420E	1861N	\$55.32
426 w/ backhoe	1862	\$39.87
426 Series II w/ backhoe	1862A	\$40.10
426C w/ backhoe	1862C	\$50.05
426C 4WD w/ backhoe	1862C4	\$51.49
428 w/ backhoe	1864	\$39.84
428 Series II w/ backhoe	1864A	\$40.08
430D	1865D	\$55.37
430E	1865E	\$58.61
436 w/ backhoe	1866	\$43.39
436 Series II w/ backhoe	1866A	\$43.59
446 w/ backhoe	1868	\$56.43
446B w/ backhoe	1868B	\$62.53
446D	1868D	\$65.13
450E	1869E	\$78.43
910	1870	\$37.66
910E	1870E	\$44.42
916	1885	\$50.31
920	1894	\$45.91
926	2065	\$58.72
926E	2067	\$63.72
928G	2070G	\$76.65
930 41K serial	2088	\$56.15
930G	2088G	\$90.86

936	2100	\$71.36	275B	2496	\$191.89
936E	2110	\$77.87	275C	2497	\$211.16
936F	2120	\$80.94	JOHN DEERE	[DEER]	
938F	2130	\$82.80	<u>Model</u>	<u>Code</u>	<u>Rate</u>
938G	2130G	\$93.49	JD-210C	2485	\$29.43
950 90A serial	2228	\$59.39	JD-210C w/ backhoe	2490	\$29.61
950 31K & 81J serial	2270	\$72.41	JD-210LE	2495	\$38.81
950B	2272	\$89.31	JD-310A w/ backhoe	2504	\$31.03
950E	2300	\$95.24	JD-310B w/ backhoe	2506	\$31.74
950F	2301	\$100.25	JD-310C w/ backhoe	2507	\$34.92
950F Series II	2303	\$104.09	JD-310D w/ backhoe	2507D	\$39.48
950G	2310	\$111.92	JD-310E w/ backhoe	2507E	\$40.43
950H	2310H	\$130.38	JD-310SE w/ backhoe	2507F	\$45.25
962G	2320G	\$122.29	310G	2507G	\$41.48
966C	2340	\$106.84	JD-315SE w/ backhoe	2507H	\$45.91
966D	2350	\$117.34	JD-410 w/ backhoe	2508	\$33.99
966E	2360	\$129.80	JD-410B w/ backhoe	2508B	\$34.71
966F	2361	\$132.72	JD-410C w/ backhoe	2508C	\$40.66
966G	2362	\$149.64	JD-410D w/ backhoe	2508D	\$48.61
966H	2362H	\$174.78	JD-410E w/ backhoe	2508E	\$50.99
966K	2362K	\$178.89	410G	2508G	\$52.10
970F	2370	\$156.29	410J 4WD	2508J	\$60.53
972G	2372G	\$166.73	410K	2508K	\$64.30
980B	2376	\$133.62	JD-444	2510	\$45.08
980C	2378	\$165.65	JD-444C	2515	\$47.14
980F	2381	\$170.93	JD-444D	2520	\$48.46
980G	2382	\$188.57	JD-444E	2521	\$52.76
980H	2382H	\$206.64	JD-500C w/ backhoe	2592	\$44.16
988 87A6868 serial	2398	\$163.03	JD-510 w/ backhoe	2620	\$40.62
988B 50W serial	2436	\$238.15	JD-510B w/ backhoe	2625	\$39.52
992B 25K serial	2460	\$291.93	JD-510C w/ backhoe	2630	\$46.49
992C	2470	\$456.21	JD-510D w/ backhoe	2630D	\$55.33
IT 12	2472	\$38.45	JD-544B	2660B	\$55.89
IT 12B	2472B	\$44.83	JD-544C	2660C	\$57.56
IT 14F	2473	\$52.06	JD-544D	2660D	\$56.43
IT 18	2474	\$49.02	JD-544E	2660E	\$62.49
IT 18B	2475	\$55.50	JD-544G	2660G	\$69.23
IT 28	2476	\$59.21	544J	2660J	\$90.93
IT 28B	2477	\$64.46	544K	2660K	\$101.52
IT 28F	2477G	\$74.80	JD-610B w/ backhoe	2690	\$45.19
IT 28G	2478	\$78.09	JD-610C w/ backhoe	2691	\$51.32
IT 38G	2480	\$89.88	JD-624E	2700	\$74.96
IT 62G	2482	\$123.61	JD-624G	2700G	\$85.27
CLARK	[CLRK]		JD-624H	2700H	\$93.28
<u>Model</u>	<u>Code</u>	<u>Rate</u>	JD-644B	2710	\$77.28
35C	2484	\$46.70	JD-644C	2715	\$80.30
45C	2486	\$54.60	JD-644D	2717	\$82.71
55C	2488	\$65.86	JD-644E	2719	\$89.86
75C	2491	\$86.20	JD-644G	2719B	\$102.75
125B	2492	\$110.39	JD-644H	2719H	\$110.16

644J	2719J	\$123.00	HOUGH	[HOUG]		
JD-710B w/ backhoe	2720	\$57.68	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
JD-710C w/ backhoe	2721	\$64.17	H65C	3578	\$74.07	
JD-710D w/ backhoe	2722	\$70.38	H-90E	3884	\$129.11	
JD-710D 4WD w/ backhoe	2722D	\$72.39	H-100C	3954	\$151.34	
710G	2722G	\$74.81	INTERNATIONAL	[INTL]		
JD-744H	2723	\$150.19	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
744J	2723J	\$178.14	260A	2260	\$33.79	
JD-844	2725	\$143.36	260A w/ backhoe	2270	\$35.50	
DRESSER	[DRES]		270A w/ backhoe	2280	\$39.13	
<u>Model</u>	<u>Code</u>	<u>Rate</u>	280A w/ backhoe	2285	\$48.27	
510B	2310	\$44.02	J C B	[JCB]		
510C	2310C	\$59.00	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
515B	3517	\$57.12	214S w/ backhoe	4430	\$47.34	
515C	3517C	\$69.87	215S w/ backhoe	4435	\$52.07	
520B	3519	\$66.12	217S w/ backhoe	4440	\$55.50	
520C	3519C	\$83.32	3C 1550 2WD w/ hoe	4448	\$33.74	
530	3520	\$92.80	3D 1700 4WD w/ hoe	4450	\$45.20	
530C	3520C	\$101.86	1400B w/ backhoe	4455	\$38.23	
540	3530	\$128.63	1550B w/ backhoe	4457	\$43.78	
550	3540	\$128.44	1600B w/ backhoe	4458	\$50.43	
FIAT-ALLIS	[F-A]		1700B w/ backhoe	4459	\$51.54	
<u>Model</u>	<u>Code</u>	<u>Rate</u>	KAWASAKI	[KAWA]		
545B	3042	\$53.81	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
745C	3046	\$105.49	60Z IV	4300	\$65.38	
FR 10	3049H	\$57.00	65Z IV	4310	\$73.09	
FR 10B	3049I	\$62.24	KSS 80Z II	4330	\$93.37	
FR 20	3050	\$120.00	80Z III	4335	\$109.22	
FR 30	3051	\$157.16	80Z IV	4340	\$111.37	
FR 20B	3051B	\$134.00	85Z IV	4345	\$139.60	
FR 35	3052	\$209.60	90Z III	4350	\$154.38	
FORD	[FORD]		90Z IV	4355	\$158.63	
<u>Model</u>	<u>Code</u>	<u>Rate</u>	95Z IV-2	4360	\$204.14	
545C	3054	\$31.76	KOMATSU	[KOMA]		
650 w/ backhoe	3056	\$34.91	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
655A w/ backhoe	3056F	\$39.43	W 120-3	4520	\$108.81	
655C w/ backhoe	3056G	\$43.46	W 180-1	4525	\$154.38	
750 w/ backhoe	3057	\$45.87	WA 200-1	4536	\$61.70	
755 w/ backhoe	3061	\$49.16	WA 250-1	4537	\$84.68	
755B w/ backhoe	3063	\$55.99	WA 300-1	4538	\$80.43	
755A w/ backhoe	3065	\$54.54	WA 320-1	4539	\$99.23	
A-62	3114	\$48.02	WA 350-1	4540	\$95.25	
A-64	3116	\$58.27	WA 380-1	4541	\$118.30	
A-66	3118	\$76.09	WA 380-3	4541C	\$118.63	
FURUKAWA	[FURU]		WA 400-1	4542	\$113.45	
<u>Model</u>	<u>Code</u>	<u>Rate</u>	WA 420-3	4543C	\$136.48	
FL 320A	3120M	\$107.22	WA 450-1	4544	\$141.34	
FL 330	3120S	\$116.96				

VERMEER	[VERM]		
Model	Code	Rate	
CC-135	8350	\$84.57	
M 220	8380	\$15.55	
M 455 / M455A	8480	\$37.38	
M 475	8570	\$39.64	
M 475A	8571	\$44.71	
M 485	8580	\$43.67	
M 495	8585	\$70.17	
T 300B, T 300A	8718	\$24.23	
T 400C, T 400B, T 400A	8781	\$53.66	
T 600D, C, B, A	8842	\$77.53	
T 650	8843	\$131.15	
T 800B, T 800A, T800	8870	\$124.42	
T 800C	8871	\$135.69	
T 850	8875	\$242.11	
V 430	8950	\$27.71	
V 430A	8951	\$31.20	
V 434 / M 434	9000	\$26.72	
V 440	9015	\$29.83	
V 450	9017	\$35.58	
V 454	9020	\$30.70	
V 1550	9025	\$14.57	

TRUCK, TRUCK TRAILERS, EXCL. [TRUCK]
DUMP TRUCKS & EQPT TRAIL

DELAY FACTOR = 0.13 OVERTIME FACTOR = 0.88

Includes all attachments and accessories related to hauling, with and without trailers as needed. Includes water trucks, freight trucks and passenger vehicles, including 4wd option. Listed by Mfr's Gross Vehicle Weight in Kilograms(pounds). For tractor-trailer units, the gross vehicle weight of the cargo carrying unit or units will control. In the case of water trucks, the tank capacity expressed in kilograms (pounds) of water plus 20%, will determine the gross vehicle weight. For attachment allowance, see attachment class.

TRUCKS	[T&TT]		
OVER	TO	Code	Rate
CARS , LIGHT TRUCKS		00-06	\$26.15
3175 (7000) 5443 (12000) No small pickups		06-12	\$29.60
5443 (12000) 9072 (20000)		12-20	\$38.38
9072 (20000) 12701(28000)		20-28	\$40.65
12701 (28000) 16330 (36000)		28-36	\$46.23
16330 (36000) 21773 (48000)		36-48	\$61.92
21773 (48000) 27216 (60000)		48-60	\$68.12
27216(60000) & Over		60	\$76.67

TRUCKS, OFF-HIGHWAY [TRUOF]

DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.79

Includes all attachments and accessories. Includes end dump, belly dump and earthmover types. Listed in accordance with Mfr's rated capacity in tonnes (tons). In the case of earthmover types, rated by Mfr's volumetric capacity, a factor of 1.4 tonnes per cubic meter (1-1/2 tons per cubic yard) of struck capacity shall be used.

TRUCK OFF-HIGHWAY	[TRU]		
OVER	TO	Code	Rate
9.1 (10) 13.6 (15)		10-15	\$48.30
16.3 (18) 20.0 (22)		18-22	\$86.65
20.0 (22) 24.5 (27)		22-27	\$108.06
24.5 (27) 29.0 (32)		27-32	\$123.65
29.0 (32) 36.3 (40)		32-40	\$167.58
36.3 (40) 49.9 (55)		40-55	\$247.51
49.9 (55) 60.8 (67)		55-67	\$278.19

TRUCKS, DUMP, ON-HIGHWAY [TRUON]

DELAY FACTOR = 0.19 OVERTIME FACTOR = 0.83

Includes all end dump, side dump and belly dump types; including all attachments and accessories.

TRUCK ON-HIGHWAY	[TRUN]		
Model	Code	Rate	
2 axles	2AXL	\$52.55	
3 axles	3AXL	\$69.31	
4 axles	4AXL	\$78.51	
5 axles	5AXL	\$87.29	

WELDING EQUIPMENT [WELD]

DELAY FACTOR = 0.20 OVERTIME FACTOR = 0.82

ARC WELDING MACHINES	[AWM]		
OVER	TO	Code	Rate
0 250		0-250	\$6.09
250 500		250-500	\$11.77
over 500		500	\$12.21

GAS WELDING OUTFIT	[GWO]		
Model	Code	Rate	
ALL	ALL	\$0.29	

Bryan Davey

From: Jeff Farr <jfarr@resourcedevelopmentco.com>
Sent: Tuesday, March 17, 2020 10:32 AM
To: Tim Beals
Cc: Bryan Davey; keith@sauerseng.com; porphan@resourcedevelopmentco.com; smelvin@resourcedevelopmentco.com
Subject: March's Pay Request

Hi Tim,

As you are aware, we encountered 500 cubic yards of rock excavation on the pipeline to the new tank on September 30, 2019.

RDC performed the rock excavation and pipeline installation.

At the February 12, 2020 meeting at the RDC office, attended by you, Bryan Davey and Keith Knibb we reached agreement on the adjusted unit price for rock excavation to \$487.85 per cubic yard, as outlined in the January 10 letter.

We also agreed to use the adjusted unit price for the 10 cubic yards previously billed.

This results in a net additive change order of \$229,925.00 (500 CY x \$487.85= \$243,925 - \$14,000 previously paid for 10 CY = \$229,925).

We do need to be paid for this extra work on the March Pay Request #7 (2/16/20 – 3/15/20) as this work was performed five months ago.

We have worked diligently to cooperate with Sierra County on this project, and have agreed to many deductive change orders to help the project stay under your budget.

As was stated in the meeting, with the change orders 1 through 6 to date and your contingency account, funds are available to pay for the rock excavation.

We have stated previously that we will continue to work with you to find additional cost savings, service connection changes, pipeline and pressure zone changes etc. to help you regain funds needed for the rock excavation.

Sauers Engineering was to look at the necessity of and possibility of eliminating or adjusting the new 6" waterlines and mainline connections, but we have received no update as of today.

Bottom line is we request payment this month for the rock excavation work completed five months ago and will include the amount on pay request #7 for the period of 2/16/20 to 3/15/20.

With the current situation escalating with the "Virus", cash is becoming an internal concern.

Please let me know if this is possible.

Contact me anytime to discuss.

Sincerely,

Jeff Farr

Jeff Farr
Farr Construction/Resource Development
1050 Linda Way, Sparks NV
775-356-8004 office
775-842-9174 cell

COMMENTS:

CLERK TO THE BOARD

DATE