



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

March 8, 2024

John P. Ary
Fremont Paving & Redi-Mix, Inc.
P.O. Box 841
Cañon City, CO 81215

**Re: McKenzie Pit - File No. M-1980-224
Fremont Paving & Redi-Mix, Inc.
Surety Increase (SI-3)
Bond update following TR2**

Dear John P. Ary:

On March 8, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$17,191.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$6,731.00.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (March 8, 2024).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after May 7, 2024, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$10,460.00
Prior Liability:	\$10,460.00
Change in Liability:	\$6,731.00
Revised Liability:	\$17,191.00
Prior Permit Acreage:	24.78
Change in Permit Acreage:	0.00



Revised Permit Acreage:	24.78
Prior Affected Acreage:	24.78
Change in Affected Acreage:	0.00
Revised Affected Acreage:	24.78

If you have any questions, please contact me by telephone at (303) 866-3567 x 8176, or by email at Hunter.ridley@state.co.us.

Sincerely,



Hunter C. Ridley
Environmental Protection Specialist

cc: Jodi Schreiber
Jodi Schreiber, Fremont Paving & Redi Mix, Inc.

M-GR-04

COST SUMMARY WORK

Task description: _____

Site: McKenzie Pit

Permit Action: TR2

Permit/Job#: M1980224

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/29/2024

County: Fremont

Filename: M224-000

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade 1 acre to 3:1 slope	DOZER	1	8.39	\$3,760
002	Grade max 800 ft length highwall to 3:1 slope	DOZER	1	7.66	\$3,434
003	Reveg 2 acres	REVEGE	1	2.00	\$3,812
004	Mob / Demob	MOBILIZE	1	1.26	\$2,222
<u>SUBTOTALS:</u>				19.31	\$13,228

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$267

Performance bond: 1.05

Total = \$139

Job superintendent: 9.65

Total = \$628

Profit: 10.00

Total = \$1,323

TOTAL O & P = \$2,357

CONTRACT AMOUNT (direct + O & P) = \$15,585

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 7.10

\$1,107

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$3,963

TOTAL BOND AMOUNT (direct + indirect) = \$17,191

BULLDOZER WORKTask description: Grade 1 acre to 3:1 slopeSite: McKenzie PitPermit Action: TR2Permit/Job#: M1980224**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 2/29/2024County: FremontFilename: M224-001User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$448.16Total Fleet Cost/Hour: **\$448.16****MATERIAL QUANTITIES**Initial Volume: 9,123Swell factor: 1.000Loose volume: **9,123** LCYSource of estimated volume: 9/24/13 Google Earth/TR-01 - Adjusted push dist. & slopeSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -30 %Average site altitude: 4,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7767

Adjusted unit production: 1,087.38 LCY/hr

Adjusted fleet production: **1087.38** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.412/LCY

Total job time: **8.39** Hours

Total job cost: **\$3,760**

BULLDOZER WORKTask description: Grade max 800 ft length highwall to 3:1 slopeSite: McKenzie PitPermit Action: TR2Permit/Job#: M1980224**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 2/29/2024County: FremontFilename: M224-002User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$448.16Total Fleet Cost/Hour: **\$448.16****MATERIAL QUANTITIES**Initial Volume: 8,333Swell factor: 1.000Loose volume: **8,333** LCYSource of estimated volume: Highwall Backfill Calculator 0.5:1 to 3:1 slopes, max 800 ftSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -30 %Average site altitude: 4,700 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7767

Adjusted unit production: 1,087.38 LCY/hr

Adjusted fleet production: **1087.38** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.412/LCY

Total job time: **7.66** Hours

Total job cost: **\$3,434**

REVEGETATION WORKTask description: Reveg 2 acresSite: McKenzie PitPermit Action: TR2Permit/Job#: M1980224**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 2/29/2024County: FremontFilename: M224-003User: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Superphosphate, 0-20-0 with 12% S	2.00	pound	\$0.69	\$1.38
			Total Fertilizer Materials Cost/Acre	\$1.38

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$100.40
Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Native	1.50	4.48	\$17.73
Blue Grama - Lovington	0.50	8.16	\$7.99
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Totals Seed Mix	6.00	22.74	\$51.71

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00

Total Seed Application Cost/Acre	\$232.00
---	-----------------

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Total Mulch Application Cost/Acre	\$74.46

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres: 2 Cost /Acre: \$1,361.34
 Estimated Failure Rate: 40% Cost /Acre*: \$1,361.34
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: **\$2,722.68**
 Reseeding Job Cost: **\$1,089.07**
 Total Job Cost: **\$3,812**
 Job Hours: **2.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob / Demob**Site: **McKenzie Pit**Permit Action: **TR2**Permit/Job#: **M1980224****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **2/29/2024**County: **Fremont**Filename: **M224-004**User: **HR1**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	47.71	\$241.38	\$158.17	1	\$399.55	\$158.17	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$596.80** **\$322.75** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$15.83** **\$15.83**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: CAÑON CITY
 Total one-way travel distance: 2.00 miles
 Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost * \$2,219.41
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$2.11
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.07	0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	0.63	0.13

JOB TIME AND COST

Total job time: 1.27 Hours

Total job cost: \$2,222