COST SUMMARY WORK

»: _	D Family Jewels	Permit Action:	New Permit		Permit/Job	#: <u>M2019055</u>
PR	OJECT IDENTIFICATI	<u>ION</u>				
	Task #: 000	State: Colorado		,	Abbreviation:	None
	Date: 2/26/2020	County: Teller			Filename:	M055-000
	User: ERR				_	
	Agency or organization	n name: DRMS				
ΓΑ	ASK LIST (DIRECT COS	STS)				
ζ.			Form	Fleet	Task	G 4
	Description Backfill Pit, Replace Tops	oil and Grada the Site	Used LOADER	Size 1	Hours 9.85	\$656
	Revegetate the Site	on, and Grade the Site	REVEGE	$-\frac{1}{1}$	2.00	\$836
	Mob/Demob		MOBILIZE	$\frac{1}{1}$	1.96	\$352
	DIRECT COSTS					
$\cap V$	<u>'ERHEAD AND PROFIT:</u>					
<u> </u>	EKILAD AND I KOITI.					
<u> </u>	Liability insurance:	2.02			Total = \$3	7
<u>, , , , , , , , , , , , , , , , , , , </u>	Liability insurance: Performance bond:	1.05			Total =	9
<i>y</i> •	Liability insurance: Performance bond: Job superintendent:	1.05 0.00			Total =	9
<u>, , , , , , , , , , , , , , , , , , , </u>	Liability insurance: Performance bond:	1.05		тот м	Total =	9 84
. •	Liability insurance: Performance bond: Job superintendent:	1.05 0.00 10.00	DACT AMOUNT		Total =	9 84 41
•	Liability insurance: Performance bond: Job superintendent:	1.05 0.00 10.00	RACT AMOUNT		Total =	9 84
	Liability insurance: Performance bond: Job superintendent:	1.05 0.00 10.00 CONTE			Total =	9 84 41
	Liability insurance: Performance bond: Job superintendent: Profit:	1.05 0.00 10.00 CONTE			Total =	9 84 41 ,085
	Liability insurance: Performance bond: Job superintendent: Profit: GAL - ENGINEERING - PR	1.05 0.00 10.00 CONTE			Total =	9 84 41 ,085
	Liability insurance: Performance bond: Job superintendent: Profit: GAL - ENGINEERING - PR Financial warranty process	1.05 0.00 10.00 CONTE	\$0		Total =	9 84 41 ,085
	Liability insurance: Performance bond: Job superintendent: Profit: GAL - ENGINEERING - PR Financial warranty process Engineering work and/or of	1.05 0.00 10.00 CONTE	\$0 4.25		Total =	9 84 41 ,085 9 04
	Liability insurance: Performance bond: Job superintendent: Profit: GAL - ENGINEERING - PR Financial warranty process Engineering work and/or of	1.05 0.00 10.00 CONTROLL OJECT MANAGEMENT: sing (legal/related costs): contract/bid preparation: nt and/or administration:	\$0 4.25 5.00	Γ (direct +	Total =	9 84 41 ,085 9 04

TOTAL BOND AMOUNT (rounded) = \$2,300

WHEEL LOADER – LOAD AND CARRY WORK

	sk description:		Pit, Replace To					
: <u>D</u>	D Family Jewels		Permit Acti	ion: New Perr	mit	Pe	ermit/Job#:	M2019055
<u>PR</u>	OJECT IDENT	TIFICATION						
7	Task #: 001		State: Color	ado		Abbr	eviation:	None
	Date: 2/26/202	20	County: Teller				ilename:	M055-001
	User: ERR						_	
	Agency or o	rganization nan	ne: DRMS					
<u>HO</u>	OURLY EQUIP	MENT COST	<u>r</u>					
	Basic Machine	: CAT 246C	•		Hors	epower:		73
	Attachment 1			_		ft Basis:		er day
	7 tttueimient 1	. Rolb cub		_		Source:		CRG)
Cos	st Breakdown:			1				
	0 11 0	. 77	011.07	Utilizatio	on %			
	Ownership Co		\$11.27	NA 100				
	Operating Co Operator Co		\$14.69 \$40.65	100 NA				
	Total Unit Co		\$66.61	INA				
								
	Total Fleet Co	ost/Hour:	\$66.61					
MA	ATERIAL QUA	NTITIES						
	Initial volume:	403	CC,	Y Sw	ell factor:	1.330		
	Initial volume: Loose volume:	403 536	CC,		ell factor:	1.330		
	Loose volume:		LCY		ell factor: _	1.330		
	Loose volume:	536	volume: Perr	<i>Y</i>	ell factor: _	1.330		
но	Loose volume: Source of	536 ce of estimated f estimated swe	volume: Perr	rit Application	ell factor: _	1.330		
	Loose volume:	536 ce of estimated f estimated swe	volume: Perrell factor: Cat	mit Application Handbook	_		0.425	minutes
	Loose volume: Source of Source of DURLY PRODU	536 ce of estimated f estimated swe UCTION Unadjust	volume: Perr	mit Application Handbook	_):		
	Loose volume: Source of Source of DURLY PRODUCE ader Cycle Time: Cycle Time Fa	536 ce of estimated f estimated swe JCTION Unadjust actors	volume: Perrell factor: Cat	nit Application Handbook Fime (load, dum	p, maneuver): Factor	(min.)	Source
	Loose volume: Source of S	536 ce of estimated f estimated swe UCTION Unadjust actors terial: No ad	volume: Perrell factor: Cat	nit Application Handbook Fime (load, dum not applicable (p, maneuver): Factor 0.0	(min.)	Source (Cat HB)
	Loose volume: Source of S	536 ce of estimated f estimated swe JCTION Unadjust actors terial: No ad kpile: No ad	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor	nit Application Handbook Fime (load, dum not applicable (p, maneuver 0.00 0.00):	(min.) 000 000	Source (Cat HB) (Cat HB)
	Loose volume: Source of Stock Owner Source Owner Owner Source Owner Ow	536 ce of estimated swe JCTION Unadjust actors terial: No ad kpile: No ad rship: No ad	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor justment - factor	nit Application Handbook Fime (load, dum not applicable (not applicable (not applicable (p, maneuver 0.00 0.00	Factor 0.0 0.0	(min.) 000 000 000	Source (Cat HB) (Cat HB) (Cat HB)
	Loose volume: Source of Stock Owner Source Owner Owner Source Owner Ow	536 ce of estimated swell JCTION Unadjust actors terial: No ad kpile: No ad ation: Const.	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor	nit Application Handbook Fime (load, dum not applicable (not applicable (not applicable (p, maneuver 0.00 0.00	Factor 0.0 0.0 0.0 -0.0	(min.) 000 000	Source (Cat HB) (Cat HB)
	Loose volume: Source of Stock Owner Opers	536 ce of estimated swell JCTION Unadjust actors terial: No ad kpile: No ad ation: Const.	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor justment - factor ant operation -0.0 target 0.04	nit Application Handbook Fime (load, dum not applicable (not applicable (not applicable (p, maneuver 0.00 0.00 0.00	Factor 0.0 0.0 0.0 0.0 0.0	(min.) 000 000 000 000 040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
	Loose volume: Source of Stock Owner Opers	536 ce of estimated swell JCTION Unadjust actors terial: No ad kpile: No ad ation: Const.	volume: Perrell factor: Cat substraint - factor justment - factor justment - factor justment - factor ant operation -0.0 target 0.04	mit Application Handbook Time (load, dum not applicable (not applicable (not applicable ()	p, maneuver 0.00 0.00 0.00 0.00	Factor 0.0 0.0 0.0 0.0 0.0 0.0	(min.) 000 000 000 000 040 040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loa	Loose volume: Source of Stock Owner Opers	536 ce of estimated swell f estimated swell Unadjust actors terial: No ad kpile: No ad rship: No ad ation: Consta	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor justment - factor ant operation -0.0 target 0.04 Ne	mit Application Handbook Fime (load, dum not applicable (not applicable (not applicable () O4	p, maneuver 0.00 0.00 0.00 0.00	Factor 0.0 0.0 0.0 0.0 0.0 0.0	(min.) 000 000 000 000 040 040 040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loa	Loose volume: Source of Stock Owner Operation of Source Owner Owner Source Owner Owne	ce of estimated f estimated swell Unadjust actors terial: No ad kpile: No ad ation: Constarget: Small	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor justment - factor ant operation -0.0 target 0.04 Ne	mit Application Handbook Fime (load, dum not applicable (not applicable (not applicable () t Cycle Time A djusted Basic C	p, maneuver 0.00 0.00 0.00 djustment: ycle Time:	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(min.) 000 000 000 040 040 040 040 04	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loa	Loose volume: Source of Stock Owner Operation of Source Owner Owner Source Owner Owne	terial: No ad ation: Constarget: Small	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor justment - factor ant operation -0.0 target 0.04 Ne And	mit Application Handbook Time (load, dum not applicable (not applicable (od et Cycle Time A djusted Basic C	p, maneuver 0.00 0.00 0.00 djustment: ycle Time:):	(min.) 000 000 000 040 040 040 040 04	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loa	Loose volume: Source of S	terial: No adation: Constarget: Small Road Condition Road Condition Soft, rut Soft, rut	volume: Perrell factor: Cat ed Basic Cycle T justment - factor justment - factor justment - factor ant operation -0.0 target 0.04 Ne Au se ted dirt, no main	mit Application Handbook Time (load, dum not applicable (not applicable (od et Cycle Time A djusted Basic C	p, maneuver 0.00 0.00 0.00 djustment: ycle Time:):	(min.) 000 000 000 040 040 040 040 04	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loa	Loose volume: Source of Stock Owner Operation of Source Owner Operations of Source Owner O	ce of estimated f estimated swell Unadjust actors terial: No ad kpile: No ad ation: Constrarget: Small Road Condition aul: Soft, rut Soft, rut	volume: Perrell factor: Cat del Basic Cycle Toler factor justment - factor justment - factor ant operation -0.0 target 0.04 Ne Additional factor in the factor and peration factor and peration factor and operation factor and operation factor and operation factor and peration factor and peration factor in the factor and peration factor in the factor i	mit Application Handbook Fime (load, dum not applicable (not applicable (od et Cycle Time A djusted Basic C tenance or water	p, maneuver 0.00 0.00 0.00 djustment: ycle Time: r, 4" tire pen r, 4" tire pen	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 etration 8.	(min.) 000 000 000 040 040 000 425	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loa	Loose volume: Source of S	ce of estimated f estimated sweeth f estimated swee	volume: Perrell factor: Cat del Basic Cycle To del	mit Application Handbook Fime (load, dum not applicable (not applicable (od et Cycle Time A djusted Basic C tenance or water tenance or water Rolling	p, maneuver 0.00 0.00 0.00 djustment: ycle Time: r, 4" tire pen r, 4" tire pen	Factor 0.0 0.0 0.0 0.0 0.0 0.1 0.2 etration 8.	(min.) 000 000 000 040 040 040 040 0425	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loa	Loose volume: Source of S	ce of estimated f estimated swell Unadjust actors terial: No ad kpile: No ad ation: Constrarget: Small Road Condition aul: Soft, rut Soft, rut	volume: Perrell factor: Cat del Basic Cycle Toler factor justment - factor justment - factor ant operation -0.0 target 0.04 Ne Additional factor in the factor and peration factor and peration factor and operation factor and operation factor and operation factor and peration factor and peration factor in the factor and peration factor in the factor i	mit Application Handbook Fime (load, dum not applicable (not applicable (od et Cycle Time A djusted Basic C tenance or water	p, maneuver 0.00 0.00 0.00 djustment: ycle Time: r, 4" tire pen r, 4" tire pen	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.4 etration 8.	(min.) 000 000 000 040 040 000 425	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

Loader Worksheet Cont'd Task # 001 Page 2 of 2

			Total Travel Tin Total Cycle Tin		0.0476 0.4726	minutes minutes
Load Bucket Capacity						
Rated Capaci	•	LCY (hea	L /			
Bucket Fill Factor	· · · <u></u>		rth Mixture (100%	5-105%)	1.025	
Adjusted Capacit	ty: 0.54	LCY				
Job Condition Correction Site Altitude: 9150 feet	on Factors					
		Source				
Altitude Adj:	0.95	(CAT HB)			
Job Efficiency:	0.83	(1 shift/day	y)			
Net Correction:	0.79	multiplier				
Ur	nadjusted Hourly Uni	t Production:	68.98	LCY/H	Iour	
	Adjusted Hourly Uni	t Production:	54.39	LCY/H	Iour	
I	Adjusted Hourly Flee	t Production:	54.39	LCY/H	Iour	
JOB TIME AND CO	<u>OST</u>					
Fleet size:	1 Loader(s)	Total job time: _		9.85	Hours

Total job cost: \$656

Unit cost: \$1.225 /LCY

REVEGETATION WORK

D Family Jewels	Per	rmit Action: New	Permit	Permit/Job	o#: <u>M2019055</u>
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: 2/26/2020 User: ERR	County:	Teller		Filename:	M055-002
	ization name: DF	OMC			
Agency of organ	iization name. Dr	awis			
ERTILIZING					
Materials					
Description		Units /	Unit	Cost / Unit	Cost /Acre
Description		Acre	Unit		
				\$	\$
				Total Fertilizer	
				Materials Cost/Acre	
		<u> </u>		Cosumer	ψοιοο
Application					
Description					Cost /Acre
					\$
		Total	Fertilizer A	application Cost/Acre	\$0.00
				11	φυ.υυ
<u> </u>					
Description					Cost /Acre
Subsoiling, light {(DM	IG}				\$175.31
			To	otal Tilling Cost/Acre	\$175.31

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Mountain Brome - Bromar	3.86	6.20	\$14.67
Sandberg Bluegrass - VNS	0.74	15.71	\$6.22
Idaho Fescue	1.58	19.95	\$14.97
Prairie Junegrass	0.30	15.95	\$7.80
Yarrow, Western	0.50	30.40	\$20.90
Bluebunch Wheatgrass - Goldar	7.42	23.85	\$34.13
Totals Seed Mix	14.40	112.06	\$98.69

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
		\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre	
Pine, Ponderosa	25	Tubling, 10 cu. in. container {(MEANS)	\$2.00	\$0.00	\$50.00	
Totals Nursery Stock Cost / Acre						

JOB TIME AND COST

 No. of Acres:
 1.15
 Cost /Acre:
 \$591.22

 nated Failure Rate:
 25%
 Cost /Acre*:
 \$541.22

Estimated Failure Rate: 25% Co
*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$679.90

Reseeding Job Cost: Total Job Cost: Job Hours: \$836

2.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob				
ite: D Family Jewels	Permit	t Action: New I	Permit	Permit/Jol	b#: M2019055
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: _ 003	State: C	Colorado	<i>A</i>	Abbreviation:	None
Date: 2/26/2020 User: ERR	County: T	eller		Filename:	M055-003
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shi	ft basis:	1 per day
			Cost Data		CRG Data
Truck Tractor Desc	ription: GENI	ERIC ON-HIGHV	WAY TRUCK TRA 400 HP (2ND HA		DIESEL POWERED,
Truck Trailer Desc	ription:	GENERIC FOLD	ING GOOSENECK	, DROP DEC	K EQUIPMENT
		Т	RAILER (25T, 507)	Γ, AND 100T)	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	_	
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69		
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69	<u></u>	
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63		
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53		
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54		

NON ROADABLE EQUIPMENT:

Machine Description Weight/ Unit Cost/hr/ unit Cost/hr/ unit Cost/hr/ unit Cost/hr/ unit Cost/hr/ unit Cost/hr/ t Return Trip Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet
--

Subtotals: \$0.00 \$0.00 \$0.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$89.74	2	\$179.48	\$179.48

Subtotals: \$179.48 \$179.48

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

COLORADO SPRINGS
miles
50.00
mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$0.00

\$351.78

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.98	0.98
Return Time (Hours):	0.98	0.98
Loading Time (Hours):	0.15	NA
Unloading Time (Hours):	0.15	NA
Subtotals:	2.26	1.96

JOB TIME AND COST

Total job cost: 1.96 Hours

Total job cost: \$352