COST SUMMARY WORK

te: Fountair	n Pit	Permit Action: TR-3 Update	Permit/Job#: M1982155
PROJECT	IDENTIFIC	<u>CATION</u>	
Task #:	100	State: Colorado	Abbreviation: None
Date: User:	10/28/2022 TC1	County: El Paso	Filename: M155-100

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
101A	Slope grading: NE Side Slopes (32 Ac @ 3.5	DOZERGRA	Size 1	8.50	\$3,031
10174	mph)	DER	1	0.50	ψ3,031
101B	NE Side Slopes Windrow Grading	GRADER	1	1.67	\$420
101C	NE Sideslopes Topsoil Placement	TRUCK1	1	83.24	\$95,704
101D	NE Sideslope Seed and Mulch 52.2 Acres	REVEGE	1	76.00	\$95,274
200	NW area reseed 43.75 Ac @ 25% failure	REVEGE	1	20.00	\$15,916
300	10-Ac Overburden stockpile reseed 10 Ac @ 25%	REVEGE	1	5.00	\$3,650
	failure				
400	HW Reduction (East-West Face)	DOZER	1	50.17	\$17,739
401	HW Reduction (West Sidewall)	DOZER	1	0.83	\$295
402	West Sidewall Backfill	TRUCK1	1	129.20	\$148,552
403	HW Reduction (East Sidewall)	DOZER	1	28.32	\$10,013
404	East Sidewall Backfill	TRUCK1	1	11.73	\$13,488
450	Growth Media Placement	TRUCK1	1	376.75	\$433,187
500	Demo Wash Plant	DEMOLISH	1	0.00	\$2,331
600	Seed and Mulch 172 Acres	REVEGE	1	344.00	\$313,930
610	Seed and Mulch 20 Acres Newly Stripped Area	REVEGE	1	344.00	\$36,504
700	mob/demob	MOBILIZE	1	2.20	\$8,021
		TALS:	1481.61	\$1,198,055	

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$24,201
Performance bond:	1.05	Total =	\$12,580
Job superintendent:	760.14	Total =	\$57,109
Profit:	10.00	Total =	\$119,806
		mom. r o o n	AA4A 60 F

TOTAL O & P = 213,695CONTRACT AMOUNT (direct + O & P) = 1,411,750

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$0	Total =	\$0
Engineering work and/or contract/bid preparation:	4.25	Total =	\$59,999
Reclamation management and/or administration:	5.00		\$70,588

CONTINGENCY: 0.00 Total = _\$0

TOTAL INDIRECT COST = \$344,282

TOTAL BOND AMOUNT (direct + indirect) = \$1,542,338

DOZERGRADER WORK

Fountain Pit		Pe	rmit Action:	TR-3 Update	Permit/Job#: M198215		
PF	ROJECT IDEN	TIFIC	CATION				
	Task #: 101A	4	State:	Colorado		Abbreviation:	None
		/2022	County:	El Paso		Filename:	M155-101A
	User: TC1						
	Agency or	r organ	ization name: DI	RMS			
<u>H(</u>	DURLY EQUI	PME	NT COST				
	Basic Machine:	Cat	D9T - 9SU				
	Horsepower:		2,1 ,20		<u> </u>		
	Blade Type:						
	Attachment:	1-sl	nank ripper		_		
	Shift Basis:	1 pe	er day				
	Data Source:				-		
Co	st Breakdown:						
					<u>Utilization %</u>		
(Ownership Cost/I	Hour:		\$146.30	NA		
	Operating Cost/I	Hour:		\$141.41	100		
	Ripper			\$19.06	NA		
	Cost/I						
	Ripper op. Cost/I			\$9.73	100		
	Operator Cost/I	Hour:		\$40.04	NA		
		our:	\$356.54				
Т	otal unit Cost/Ho						

Fleet size: 1 Dozer(s)
Unit cost: \$356.54/LCY

Total job time: 8.50 Hours
Total job cost: \$3,031

MOTOR GRADER WORK

Task description:	NE Side Slopes Winds	ow Grading			
te: Fountain Pit	Permit A	ction: TR-3 Upda	te	Permit/Job#: M198	82155
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 101B	State: Cole	orado	Abbro	eviation: None	
Date: 9/29/2022	County: El P	aso	F	ilename: M155-10	01B
User: TC1					
Agency or organ	nization name: DRMS				
HOURLY EQUIPME	NT COST				
Basic Machine	e: CAT 14M		Horsepower:	259	
Ripper Attachment			Shift Basis:	1 per day	
11			Data Source:	(CRG)	
Cost Breakdown:			_		
Cost Breakdown.			Utilization %		
Owner	rship Cost/Hour:	\$114.80	NA		
	ating Cost/Hour:	\$79.39	100		
	rship Cost/Hour:	\$5.34	NA		
Ripper Oper	ating Cost/Hour:	\$3.98	100		
-	rator Cost/Hour:	\$46.87	NA		
Total	Unit Cost/Hour:	\$250.38	=		
Total	Fleet Cost/Hour:	\$250.38			
		*			
MATERIAL QUANT	ITIES				
		5.00		0.0403	
Total Alea	to be graded or ripped:).00		acres	
Source	e of estimated acreage:	ΓR-3 Exh L, p. 5			
HOURLY PRODUCT	TON				
HOURET TROBUCT	Average Grader Speed:	3.25	mph		
	Selected Application:	Heavy	blading (0-6 mph	1) - 3.25	
	Selected Blade Angle:	30	degrees		
	Effective Blade Length:	12.10	feet		
	of blade overlap per pass:	2.00	feet		
	or ripping width per pass:	10.10	feet		
Unadjusted	Hourly Unit Production:	3.9788	acres/ho	ur	
Job Condition Correction			Site Altitude: <u>5740</u>	feet	
44.5. 4 4 45		ource			
Altitude Adj:		AT HB)			
Job Efficiency: Net Correction:		n/d, fav.) tiplier			
=		-			
	djusted Hourly Unit Produc		acres/Hour		
Ad	justed Hourly Fleet Produc	etion: 3.5809	acres/Hour		
JOB TIME AND COS	T				
Fleet size:		Total job tim	e: 1.68	Hours	
		m			
Unit cost: \$69	per acre	Total job cos	st: \$420	<u>) </u>	

TRUCK/LOADER TEAM WORK

Task description: NE Sideslopes Top	osoil Placement			
ite: Fountain Pit Perm	nit Action: TR-3 Update	Permit/Job#: M1982155		
PROJECT IDENTIFICATION				
Task #: 101C State: 0	Colorado	Abbreviation:	None	
Date: $9/29/2022$ County:	El Paso	Filename:	M155-101C	
User: TC1				
A gency or organization name: DRM	/S			
Agency or organization name: DRM HOURLY EQUIPMENT COST		Shift basis: 1 per da	<u>У</u>	
HOURLY EQUIPMENT COST	AS Equipment Description	Shift basis: 1 per da	<u>Y</u>	
<u> </u>	Equipment Description Cat 730	Shift basis: 1 per da	<u>y</u>	
HOURLY EQUIPMENT COST	Equipment Description	Shift basis: 1 per da	У	
HOURLY EQUIPMENT COST Truck Loader Team -Truck:	Equipment Description Cat 730	Shift basis: 1 per da	У	
HOURLY EQUIPMENT COST Truck Loader Team -Truck: -Loader:	Equipment Description Cat 730 CAT 980H	Shift basis: 1 per da	У.	
Truck Loader Team -Truck: -Loader: Support Equipment -Load Area:	Equipment Description Cat 730 CAT 980H NA	Shift basis: 1 per da	У.	

Cost Breakdown:	eakdown: Truck/Loader Team			Equipment	Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor	Water Truck
					Grader	
%Utilization-machine:	100	100	NA	100	25	25
Ownership cost/hour:	\$97.13	\$54.58	NA	\$92.78	\$114.80	\$37.19
Operating cost/hour:	\$65.52	\$53.14	NA	\$79.33	\$19.85	\$12.83
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$187.47	\$143.69	NA	\$212.15	\$181.52	\$50.02
Number of Units:	3	1	0	1	1	1
Group Subtotals:	Work:	\$706.10	Support:	\$212.15	Maint:	\$231.54

Total work team cost/hour: \$1,149.79

MATERIAL QUANTITIES

Initial volume: 51,089 CCY Swell factor: 1.125

Loose volume: 57,475 LCY

Source of estimated volume: TR-3, Exh L, pp. 5 - 6

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,550 Pounds/LCY

Description: Earth - Dry packed

Rated Payload: 62,000 Pounds
Payload Capacity: 24.31 LCY

Truck Bed	(volume)	Rasis.
TIUCK DCU	(volullic)	Dasis.

Struck Volume: 17.10 LCY
Heaped Volume: 22.10 LCY
Average Volume: 19.60 LCY
Adjusted Volume: 22.10 LCY

Final Truck Volume Based on Number of Loader Passes: 16.50 LCY

Loading Tool Capacity

Bucket Size Class: NA

0.100

Dump:

Rated Capacity:	7.500	LCY (heaped)	
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures	(100-120%) 1.100
Adjusted Capacity:	8.250	LCY	

Job Condition Corrections:

Load: NA

Site Altitude (ft.): 5740 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Maneuver:

Loading Tool Cycle Time:	Number of Loading Tool Passes Required to Fil			2	passes	
Excavators and Front Shovels:				Truck: _		<u> </u>
Machine Cycle Time vs. Job Conditi Selected Value within this Ba	_	NA NA				
Track Loaders – Material Desc	cription:					
Cycle Time Elements (min.):						

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):

0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment	-0.060	minutes

NA

Net Cycle Time Adjustment: -0.060 minutes
Adjusted Loader Cycle Time: 0.490 minutes
Net Load Time per Truck: 0.590 minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	0.590	Minutes	Adjusted for site altitude:	0.590	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

TT 1	-	
Haul	R O	iite:
Hau	INU	uic.

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	2.00	3.00	5.00	1427	0.823

Haul Time: **0.823** minutes Return Route: Seg# Haul Distance Grade (%) Roll. Res Total Res Velocity Travel Time (Ft) (%) (fpm) (%) (min) 1000.00 -2.00 3.00 1.00 3060 0.459

Return Time: 0.459 minutes
Total Truck Cycle Time: 3.472 minutes

Loading Tool unit

Production 831.93 LCY/Hour Adjusted for job efficiency: 690.50 LCY/Hour Truck Unit Production 285.14 LCY/Hour Adjusted for job efficiency: 236.66 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 709.99 LCY/Hour Adjusted single truck/loader team production: 690.50 LCY/Hour Adjusted multiple truck/loader team production: 690.50 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 83.24
 Hours

 Unit cost:
 \$1.665
 /LCY
 Total job cost:
 \$95,704

REVEGETATION WORK

Task description:	NE Sideslope Seed and	l Mulch 52.2	Acres			
: Fountain Pit	Permit Ac	ction: TR-3	Update		Permit/Job#	: M1982155
PROJECT IDENTIFICA	<u>ATION</u>					
Task #: 101D	State: Colo	rado		Δhl	oreviation:	None
Date: $\frac{101D}{10/28/2022}$	County: El Pa			_		M155-101D
User: TC1					_	11100 1010
Agency or organiza	ation name: DRMS					
FERTILIZING						
Materials						
Description		Units / Acre	Unit	Cost	t / Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	\$0.00
						\$
		Total	Fertilizer A	Application	n Cost/Acre	\$0.00
<u>TILLING</u>						
Description						Cost /Acre
Chisel plowing {DMG}						\$98.43
			To	otal Tillin	g Cost/Acre	\$98.43
<u>SEEDING</u>						
				Rate –	G -	G
Seed Mix				PLS	Seeds	Cost /Acre
				LBS /	per SQ. FT	
DI C MAI				Acre		06.06
Blue Grama - Native				0.50	8.16	\$6.86
Little Bluestem - Native				1.00	5.97	\$13.57
Sideoats Grama - Vaughr	1			1.00	3.28	\$8.38

White Sweet Clover

Western Wheatgrass - Native

Needlegrass, Green - Lodorm

\$2.06

\$18.00

\$23.55

\$72.42

0.50

3.00

2.00

8.00

Totals Seed Mix

2.98

7.58

8.31

36.28

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
	Total Mulch Application Cost/Acre	\$214.57

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 52.2 Cost / Acres: \$1,460.14

Estimated Failure Rate: 25% Cost /Acre*: \$1,460.14

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$76,219.31

Reseeding Job Cost: \$19,054.83

Total Job Hours: \$95,274

76.00

REVEGETATION WORK

Tas	sk description: N	W area reseed 43.75	Ac @ 25% f	ailure			
F	Fountain Pit	Permit A	ction: TR-3	Update		Permit/Job#	: M1982155
<u>R(</u>	OJECT IDENTIFICAT	<u> TION</u>					
,	Task #: 200	State: Colo	orado		Abb	reviation:	None
	Date: 9/29/2022	County: El P			_		M155-200
	User: TC1	_			_		
	Agency or organizati	ion name: DRMS					
EF	RTILIZING						
<u> </u>	erials						
Γ	Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
					\$		\$
					Tota	l Fertilizer Materials Cost/Acre	\$0.00
							\$
			Total	Fertilizer A	pplication	Cost/Acre	\$0.00
ΓIL	<u>LLING</u>						
							Cost /Acre
	Description Chisel plowing {DMG}						Cost /Acre \$98.43
				To	tal Tilling	; Cost/Acre	
C				To	tal Tilling	; Cost/Acre	\$98.43
SEE	Chisel plowing {DMG} EDING				Rate –		\$98.43 \$98.43
SEE	Chisel plowing {DMG}				Rate – PLS	Seeds	\$98.43
EE	Chisel plowing {DMG} EDING				Rate – PLS LBS /		\$98.43 \$98.43
SEE	Chisel plowing {DMG} EDING Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	\$98.43 \$98.43 Cost /Acre
SEE	Chisel plowing {DMG} EDING				Rate – PLS LBS /	Seeds per SQ.	\$98.43 \$98.43

White Sweet Clover

Western Wheatgrass - Native

Needlegrass, Green - Lodorm

\$2.06

\$18.00

\$23.55

\$72.42

0.50

3.00

2.00

8.00

Totals Seed Mix

2.98

7.58

8.31

36.28

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
	Total Mulch Application Cost/Acre	\$214.57

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 10.9 Cost /Acre: \$1,460.14 Estimated Failure Rate: 0% Cost /Acre*: \$0.00

*Selected Replanting Work Items: NONE

Initial Job Cost: \$15,915.53

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: 20.00

REVEGETATION WORK

Task description:	10-Ac Overburden stoc	kpile reseed	1 10 Ac @ 25	% failure	
: Fountain Pit	Permit Act	tion: TR-3	Update	Permit/Job	p#: <u>M1982155</u>
PROJECT IDENTII	FICATION				
Task #: 300	State: Color	rado		Abbreviation:	None
Date: $\frac{300}{9/29/202}$				Filename:	M155-300
User: TC1		30		I menume.	141133 300
Agency or org	ganization name: DRMS				
FERTILIZING					
Materials					
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer Materials Cost/Acre	s
					\$
		Total	Fertilizer A	pplication Cost/Acre	\$0.00
<u> FILLING</u>					
Description					Cost /Acre
Chisel plowing {DM	I G}				\$98.43
			To	otal Tilling Cost/Acre	\$98.43
SEEDING					
Seed Mix]	Rate – PLS Seeds LBS / per SQ. FT	Cost /Acre
Blue Grama - Native	<u> </u>			Acre 0.50 8.16	\$6.86
Little Bluestem - Na				1.00 5.97	\$13.57
Sideoats Grama - Va				1.00 3.97	\$8.38
Sideoats Ofallia - Va	tugiii			1.00 3.28	\$0.30

White Sweet Clover

Western Wheatgrass - Native

Needlegrass, Green - Lodorm

\$2.06

\$18.00

\$23.55

\$72.42

2.98

7.58

8.31

36.28

0.50

3.00

2.00

8.00

Totals Seed Mix

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
	Total Mulch Application Cost/Acre	\$214.57

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

 No. of Acres:
 2.5
 Cost / Acre:
 \$1,460.14

 Estimated Failure Rate:
 0%
 Cost / Acre*:
 \$0.00

*Selected Replanting Work Items: NONE

Initial Job Cost: \$3,650.35

Reseeding Job Cost: \$0.00

Total Job Cost: \$3,650

Job Hours: 5.00

BULLDOZER WORK

Task description:	HW Reduction (East-Wes	t Face)		
te: Fountain Pit	Permit Actio	n: TR-3 Update	Permit/Jo	b#: M1982155
PROJECT IDENTIFIC	<u>CATION</u>			
Task #: 400 Date: 9/29/2022	State: Colorad County: El Paso	0	Abbreviation: Filename:	None M155-400
User: TC1				
Agency or organ	ization name: DRMS			
HOURLY EQUIPMEN	NT COST			
	D9T - 9SU			
Horsepower: 405				
	ni-Universal			
	hank ripper			
	er day	<u> </u>		
	(U)			
Cost Breakdown:		<u>Utilization %</u>		
Ownership Cost/Hour:	\$146.30			
Operating Cost/Hour:	\$141.41	100		
Ripper own. Cost/Hour:	\$17.01			
Ripper op. Cost/Hour:	\$8.85	100		
Operator Cost/Hour:	\$40.04	NA		
Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 60,0 Swell factor: 1.12 Loose volume: 67,5	89			
Source of estimated volu Source of estimated swel factor:		ks # 400.1A & B		
HOURLY PRODUCT	<u>ION</u>			
Average push distance: Unadjusted hourly production:	50 feet 2,110.5 LCY/hr			
Materials consistency de	scription: Compacted fill or	r embankment 0.9		
Average push gradient:	-15 %			
Average site altitude:	5,740 feet			
Material weight:	2,900 lbs/LCY			
Weight description:	Sand and gravel - Dry			

Condition Correction Factor		Source
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:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6377

Adjusted unit production:

Adjusted fleet production:

1,345.87 LCY/hr

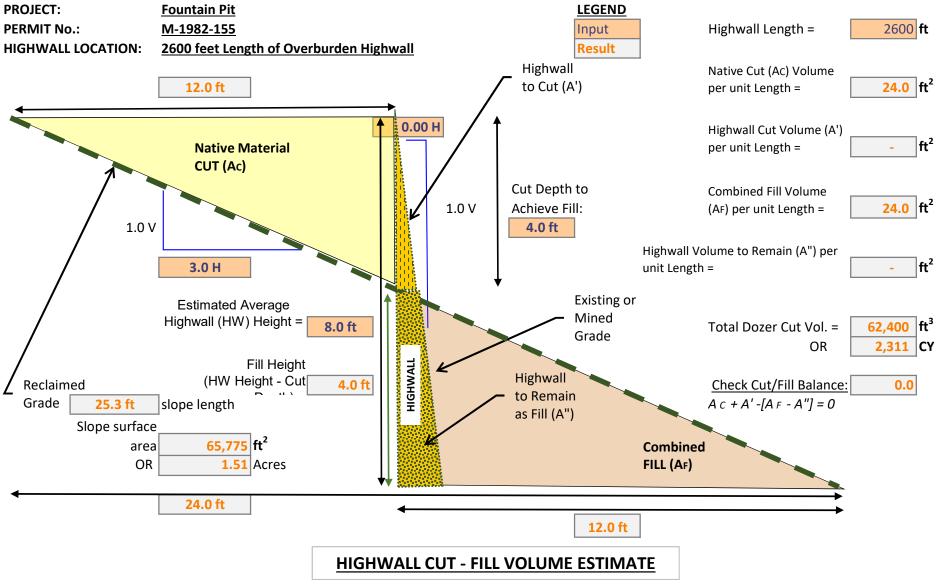
1345.87 LCY/hr

JOB TIME AND COST

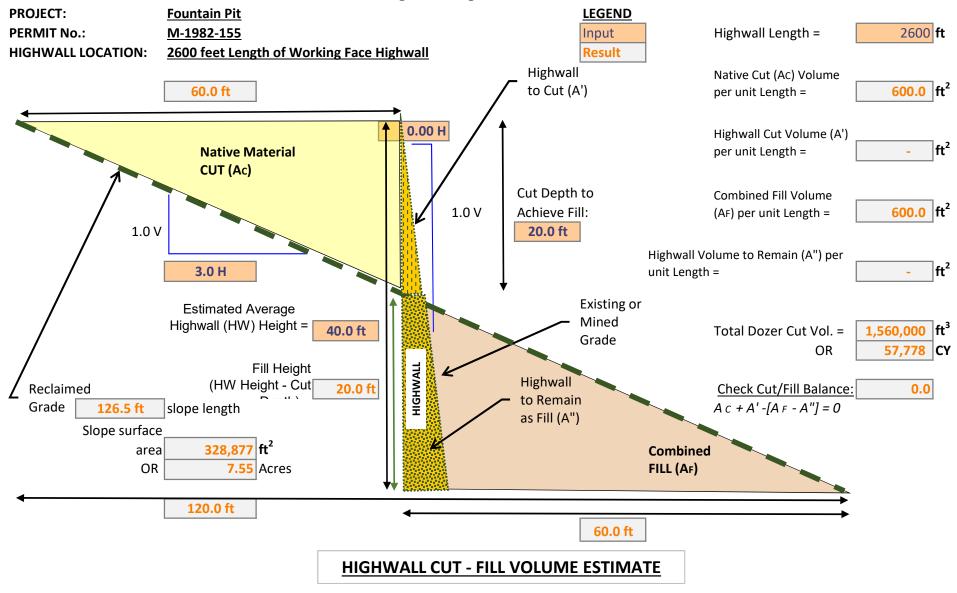
Fleet size: 1 Dozer(s)
Unit cost: \$0.263/LCY

Total job time: 50.17 Hours
Total job cost: \$17,739

Task # 400.1A East-West Overburden Highwall Cut/Fill Volume Estimate



Task # 400.1B East-West Working Face Highwall Cut/Fill Volume Estimate



BULLDOZER WORK

Task description:	HW Reduction (W	est Sidewa	all)		
te: Fountain Pit	Perm	it Action:	TR-3 Update	Permit/Job#: M1982155	
PROJECT IDENTIFI	CATION				
Task #: 401 Date: 9/29/2022 User: TC1		Colorado El Paso		Abbreviation: Filename:	None M155-401
Agency or organ		IS			
HOURLY EQUIPME	<u>.</u>				
	t D9T - 9SU		_		
Horsepower: 40 Blade Type: Se	omi-Universal		_		
• • • • • • • • • • • • • • • • • • • •	shank ripper		_		
	per day		=		
	RG)		_		
Cost Breakdown:			_		
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$146.30	NA		
Operating Cost/Hour:		\$141.41	100		
Ripper own. Cost/Hour:		\$17.01	NA		
Ripper op. Cost/Hour:		\$8.85	100		
Operator Cost/Hour:		\$40.04	NA		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,00 Swell factor: 1,12 Loose volume: 1,12	00				
Source of estimated volumes Source of estimated sweet factor:	ume: TR-3 Exh I	• •	gure 2		
HOURLY PRODUCT	<u> </u>				
Average push distance: Unadjusted hourly production:	50 feet 2,110.5 LCY/	hr	<u> </u>		
Materials consistency do	escription: Compacto	ed fill or en	nbankment 0.9		
Average push gradient:	-15 %				
Average site altitude:	5,740 feet	- -			
Material weight:	2,900 lbs/LCY			_	
Weight description:	Sand and gravel - Di	·y			

Job Condition Correction Factor		Source
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:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6377

Adjusted unit production: Adjusted fleet production:

1,345.87 LCY/hr

1345.87 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.263/LCY

Total job time: 0.83 Hours
Total job cost: \$295

TRUCK/LOADER TEAM WORK

7	Γask descrip	otion:	West Sidewall Ba	ckfill			
Site:	Site: Fountain Pit Pe			nit Action:	TR-3 Update	Permit/Jol	o#: M1982155
<u>P</u>]	ROJECT	IDENTIFIC	<u>ATION</u>				
	Task #:	402	State:	Colorado		Abbreviation:	None
	Date:	9/29/2022	County:	El Paso		Filename:	M155-402
	User:	TC1				-	
Agency or organization name: DRMS HOURLY EQUIPMENT COST Shift basis: 1 per day						<u>y</u>	
_			1		ment Description		
	Truck Loader Team -Truck:		Cat 730	OTT			
-Loader:			CAT 980)H			
	Support Equipment -Load Area:		NA				
	-Dump Area:			DS Series II LGP			
Road Maintenance – Motor Grader:							
_			-Water Truck:	Water Ta	anker, 5,000 Gal.		

Cost Breakdown:	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor	Water Truck
					Grader	
%Utilization-machine:	100	100	NA	100	25	25
Ownership cost/hour:	\$97.13	\$54.58	NA	\$92.78	\$114.80	\$37.19
Operating cost/hour:	\$65.52	\$53.14	NA	\$79.33	\$19.85	\$12.83
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$187.47	\$143.69	NA	\$212.15	\$181.52	\$50.02
Number of Units:	3	1	0	1	1	1
Group Subtotals:	Work:	\$706.10	Support:	\$212.15	Maint:	\$231.54

Total work team cost/hour: \$1,149.79

MATERIAL QUANTITIES

Initial volume: 79,300 CCY Swell factor: 1.125
Loose volume: 89,213 LCY

Source of estimated volume: TR-3, Exh L, p 3 & Figure 2

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,550 Pounds/LCY

Description: Earth - Dry packed

Rated Payload: 62,000 Pounds
Payload Capacity: 24.31 LCY

Truck Bed (volume) Basis:

Struck Volume: 17.10 LCY
Heaped Volume: 22.10 LCY
Average Volume: 19.60 LCY
Adjusted Volume: 22.10 LCY

Final Truck Volume Based on Number of Loader Passes: 16.50 LCY

Loading Tool Capacity

Bucket Size Class: NA

 Rated Capacity:
 7.500
 LCY (heaped)

 Bucket Fill Factor:
 1.100
 Other - rock/dirt mixtures (100-120%) 1.100

 Adjusted Capacity:
 8.250
 LCY

Job Condition Corrections:

Site Altitude (ft.): 5740 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of	Loading Tool Passes Required to Fill	2	passes
Excavators and Front Shovels:	Truck:		
Machine Cycle Time vs. Job Condition Rating: Selected Value within this Basic Rating: Track Loaders – Material Description:	NA NA		
<u> </u>			

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):

0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	31 G 1 M' 1 1'	0.060	

Net Cycle Time Adjustment: -0.060 minutes
Adjusted Loader Cycle Time: 0.490 minutes
Net Load Time per Truck: 0.590 minutes

Truck Cycle Time:

Truck Exchange Time: 0.60 Minutes Adjusted for site altitude: 0.600 Minutes Truck Load Time: 0.590 Minutes Adjusted for site altitude: 0.590 Minutes Truck Maneuver and Dump 1.00 Minutes Adjusted for site altitude: 1.000 Minutes Time:

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

TT 1	D .
Houl	Route:
Haui	KOUIC.

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	1.00	3.00	4.00	1774	0.753

Haul Time: 0.753 minutes

Return Rou	ıte:					
Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-1.00	3.00	2.00	3040	0.476

Return Time: **0.476** minutes Total Truck Cycle Time: 3.419 minutes

Loading Tool unit

Production 831.93 LCY/Hour Adjusted for job efficiency: 690.50 LCY/Hour Truck Unit Production

289.56 LCY/Hour Adjusted for job efficiency: 240.33 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

> LCY/Hour Adjusted hourly truck team production: 721.00 Adjusted single truck/loader team production: 690.50 LCY/Hour Adjusted multiple truck/loader team production: LCY/Hour 690.50

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 129.20 Hours Unit cost: \$1.665 /LCY Total job cost: \$148,552

BULLDOZER WORK

Task description:	HW Reduction (Eas	t Sidewal	l)		
te: Fountain Pit	Permit	Action: _	TR-3 Update	Permit/Jol	b#: <u>M1982155</u>
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 403	State: Co	olorado		Abbreviation:	None
Date: 9/29/2022		Paso		Filename:	M155-403
User: TC1					
Agency or orga	nization name: DRMS				
HOURLY EQUIPME					
	at D9T - 9SU				
Horsepower: 40			=		
	mi-Universal		=		
	shank ripper		=		
	per day		=		
	RG)		-		
	KO)		-		
Cost Breakdown:		1	TT.'1' .' 0/		
O1: C 4/II	φı	16.20	<u>Utilization %</u>		
Ownership Cost/Hour:		46.30	NA 100		
Operating Cost/Hour:	\$1	41.41	100		
Ripper own.	\$	817.01	NA		
Cost/Hour:					
Ripper op. Cost/Hour:		\$8.85	100		
Operator Cost/Hour:		840.04	NA		
Swell factor: 1.12	920 24 113 LCY	o. 4 & Fig	ures 3 & 4		
Source of estimated swe factor:					
HOURLY PRODUCT	ΓΙΟΝ				
Average push distance: Unadjusted hourly production:	50 feet 2,110.5 LCY/hi	r			
Materials consistency d	escription: Compacted	l fill or em	bankment 0.9		
Average push gradient:	-15 %				
Average site altitude:	5,740 feet				
Material weight:	2,900 lbs/LCY				
Weight description:	Sand and gravel - Dry	•			

Condition Correction Factor		Source
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:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6377

Adjusted unit production: Adjusted fleet production:

1,345.87 LCY/hr

1345.87 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.263/LCY

Total job time: 28.32 Hours
Total job cost: \$10,013

TRUCK/LOADER TEAM WORK

Task description: East Sidewall Bac	kfill		
Site: Fountain Pit Perm	it Action: TR-3 Update	Permit/Jol	o#: M1982155
PROJECT IDENTIFICATION			
Task #: 404 State:	Colorado	Abbreviation:	None
Date: 9/29/2022 County:	El Paso	Filename:	M155-404
User: TC1		-	
Agency or organization name: DRM HOURLY EQUIPMENT COST	10	Shift basis: 1 per da	У
	Equipment Description		
Truck Loader Team -Truck:	Cat 730		
Loader:	CAT 980H		
Support Equipment -Load Area:	NA		
-Dump Area:	Cat D7R DS Series II LGP		
Road Maintenance – Motor Grader:	CAT 14M		
-Water Truck:	Water Tanker, 5,000 Gal.		

Cost Breakdown:	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor	Water Truck
					Grader	
%Utilization-machine:	100	100	NA	100	25	25
Ownership cost/hour:	\$97.13	\$54.58	NA	\$92.78	\$114.80	\$37.19
Operating cost/hour:	\$65.52	\$53.14	NA	\$79.33	\$19.85	\$12.83
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$187.47	\$143.69	NA	\$212.15	\$181.52	\$50.02
Number of Units:	3	1	0	1	1	1
Group Subtotals:	Work:	\$706.10	Support:	\$212.15	Maint:	\$231.54

Total work team cost/hour: \$1,149.79

MATERIAL QUANTITIES

Initial volume: 7,200 CCY Swell factor: 1.125

Loose volume: 8,100 LCY

Source of estimated volume: TR-3, Exh L, p 4 & Figures 3 & 4

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,550 Pounds/LCY

Description: Earth - Dry packed

Rated Payload: 62,000 Pounds
Payload Capacity: 24.31 LCY

Truck Bed (volume) Basis:

Struck Volume: 17.10 LCY
Heaped Volume: 22.10 LCY
Average Volume: 19.60 LCY
Adjusted Volume: 22.10 LCY

Final Truck Volume Based on Number of Loader Passes: 16.50 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	8.250	LCY

Job Condition Corrections:

Site Altitude (ft.): 5740 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:	Number of	Loading Tool Passes Required t	o Fill	2	passes
Excavators and Front Shovels:		Т	ruck:		<u> </u>
Machine Cycle Time vs. Job Con Selected Value within this	•	NA NA			
Track Loaders - Material	Description:				

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):

0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	37 . 6 1 57 . 4 11	0.000	

Net Cycle Time Adjustment:

Adjusted Loader Cycle Time:

Net Load Time per Truck:

-0.060

minutes

minutes

minutes

0.590

minutes

Truck Cycle Time:

Truck Exchange Time: 0.60 Minutes Adjusted for site altitude: 0.600 Minutes 0.590 Truck Load Time: Minutes Adjusted for site altitude: 0.590 Minutes Truck Maneuver and Dump 1.00 Minutes Adjusted for site altitude: 1.000 Minutes Time:

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

LCY/Hour

TI	[au	I D		-4-
П	ıall	ıκ	()	пе:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	1.00	3.00	4.00	1774	0.753

Haul Time: **0.753** minutes Return Route: Haul Distance Grade (%) Roll. Res Total Res Velocity Travel Seg# Time (%) (Ft) (%)(fpm) (min) 1000.00 -1.00 3.00 2.00 3040 0.476

Return Time: 0.476 minutes
Total Truck Cycle Time: 3.419 minutes

Adjusted for job efficiency: 240.33

Loading Tool unit

Production 831.93 LCY/Hour Adjusted for job efficiency: 690.50 LCY/Hour Truck Unit Production

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

LCY/Hour

Adjusted hourly truck team production: 721.00 LCY/Hour Adjusted single truck/loader team production: 690.50 LCY/Hour Adjusted multiple truck/loader team production: 690.50 LCY/Hour

JOB TIME AND COST

289.56

 Fleet size:
 1
 Team(s)
 Total job time:
 11.73
 Hours

 Unit cost:
 \$1.665
 /LCY
 Total job cost:
 \$13,488

TRUCK/LOADER TEAM WORK

Task description: Growth Media Pla		lacement			
Site: Foun	e: Fountain Pit Perm		mit Action: TR-3 Update	Permit/Jol	o#: M1982155
PROJE	CT IDENTIFIC	CATION			
Task	#: 450	State:	Colorado	Abbreviation:	None
Da	te: 9/29/2022	County:	El Paso	Filename:	M155-450
Us	er: TC1				
	Agency or organi	zation name:DR	MS		
HOURI	LY EQUIPMEN	T COST		Shift basis: 1 per da	<u>y</u>
			Equipment Description		
	Truck L	oader Team -Truck:	Cat 730		
		-Loader:	CAT 980H		
	Support Equ	ipment -Load Area:	NA		
		-Dump Area:	Cat D7R DS Series II LGP		
	Road Maintena	nce –Motor Grader:	CAT 14M		
		-Water Truck:	Water Tanker, 5,000 Gal.		

Cost Breakdown:	Truck/Loa	der Team	Support	Equipment	Maintena	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor	Water Truck
					Grader	
%Utilization-machine:	100	100	NA	100	25	25
Ownership cost/hour:	\$97.13	\$54.58	NA	\$92.78	\$114.80	\$37.19
Operating cost/hour:	\$65.52	\$53.14	NA	\$79.33	\$19.85	\$12.83
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$187.47	\$143.69	NA	\$212.15	\$181.52	\$50.02
Number of Units:	3	1	0	1	1	1
Group Subtotals:	Work:	\$706.10	Support:	\$212.15	Maint:	\$231.54

Total work team cost/hour: \$1,149.79

MATERIAL QUANTITIES

Initial volume: 231,244 CCY Swell factor: 1.125
Loose volume: 260,150 LCY

Source of estimated volume: TR-3, Exh L: 10" over 172 acres

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,550 Pounds/LCY

Description: Earth - Dry packed

Rated Payload: 62,000 Pounds
Payload Capacity: 24.31 LCY

Truck Bed (volume) Basis:

Struck Volume: 17.10 LCY
Heaped Volume: 22.10 LCY
Average Volume: 19.60 LCY
Adjusted Volume: 22.10 LCY

Final Truck Volume Based on Number of Loader Passes: 16.50 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)	
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures	(100-120%) 1.100
Adjusted Capacity:	8.250	LCY	

Job Condition Corrections:

Site Altitude (ft.): 5740 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Ti	me: Number of	Loading Tool Passes Required to Fill	2	passes
Excavators and Front Sh	ovels:	Truck:		
•	ne vs. Job Condition Rating: lue within this Basic Rating:	NA NA		
Track Loade	rs – Material Description:			

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):

0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	31 G 1 M' 1 1'	0.060	

Net Cycle Time Adjustment: -0.060 minutes
Adjusted Loader Cycle Time: 0.490 minutes
Net Load Time per Truck: 0.590 minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	0.590	Minutes	Adjusted for site altitude:	0.590	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0</u>

TI	[au	I D		-4-
П	ıall	ıκ	()	пе:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1200.00	0.00	3.00	3.00	2183	0.813

Haul Time: **0.813** minutes Return Route: Haul Distance Grade (%) Roll. Res Total Res Velocity Travel Seg# Time (%) (Ft) (%)(fpm) (min) 1200.00 0.00 3.00 3.00 2936 0.563

Return Time: 0.563 minutes
Total Truck Cycle Time: 3.566 minutes

Loading Tool unit

Production 831.93 LCY/Hour Adjusted for job efficiency: 690.50 LCY/Hour Truck Unit Production 277.62 LCY/Hour Adjusted for job efficiency: 230.43 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 691.28 LCY/Hour Adjusted single truck/loader team production: 690.50 LCY/Hour Adjusted multiple truck/loader team production: 690.50 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 376.75
 Hours

 Unit cost:
 \$1.665
 /LCY
 Total job cost:
 \$433,187

DEMOLITION WORK

Site: F	ountain Pit		Permit Action:	TR-3 Update	Permit	/Job#:	M1982155
ROJECT	T IDENTIFICAT	ΓΙΟΝ .					
Task #:	500	State:	Colorado		Abbreviation:	None	
Date:	9/29/2022	County:	El Paso		Filename:	M155	5-500
I Icor.	TC1						

Demolition Menu

Selection
Plant (1S) demo./off-site

disposal in approved landfill - Max. 15 mile

demolition only, average reinforcing - 8 in. thick

Floor, concrete,

haul

UNIT COSTS

Wash Plant

Demo/Haul to Midway

Demo concrete

support slab

Structure or Item

Description

Dimensions

8' x 36' x 7'

800 sqft

Quantity	Unit	Unit Cost	Total Cost
2,016.00	CF	\$0.73	\$1,467.65

\$1.48

\$1,184.00

Location adjustment: 87.90 %

				Total Cost		
		Subtotal		(adjusted for		
Job Hours:	0.00	(unadiusted):	\$2,651,65	location).	\$2,330.80	

800.00

SF

REVEGETATION WORK

	descrip		ed and Mulch						
F(ountain	Pit	Pen	mit Actio	on: <u>TR-3</u>	Update		Permit/Job#:	M1982155
PRO	JECT	<u>IDENTIFICAT</u>	ION						
	ask #:	600	State:	Colorad	do		Abl	oreviation: N	None
-	Date:	9/28/2022	County:	El Paso					M155-600
	User:	TC1	=						
	Age	ency or organization	on name: DR	MS					
FER'	TILIZ	ING							
Mate									
					Units /	TI	Coss	t / Unit	Cost /Acre
De	escripti	on			Acre	Unit		t / Ullit	
							\$		\$
							Tot	al Fertilizer	
								Materials Cost/Acre	\$0.00
Appli	ication								
	escripti	on							Cost /Acre
									\$
					To4al	E4:1:		- Cart/A ava	
					1 otal	Fertilizer	Аррисацо	n Cost/Acre	\$0.00
<u>TILI</u>	LING								
De	escripti	on							Cost /Acre
Cł	hisel plo	owing {DMG}							\$98.43
							Total Tillin	g Cost/Acre	\$98.43
							<u> </u>		ψ/ 0
<u>SEEI</u>	DING								
C.	eed Mix						Rate –	Seeds	Cost /Acre
56	eea wilx						PLS LBS /	per SQ. FT	Cust /ACIE
							Acre	FT	

Blue Grama - Native

White Sweet Clover

Little Bluestem - Native

Sideoats Grama - Vaughn

Western Wheatgrass - Native

Needlegrass, Green - Lodorm

\$6.86

\$13.57

\$8.38

\$2.06

\$18.00

\$23.55

\$72.42

0.50

1.00

1.00

0.50

3.00

2.00

8.00

Totals Seed Mix

8.16

5.97

3.28

2.98

7.58

8.31

36.28

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
	Total Mulch Application Cost/Acre	\$214.57

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 172 Cost / Acre: \$1,460.14

Estimated Failure Rate: 25% Cost /Acre*: \$1,460.14

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$251,144.08

Reseeding Job Cost: \$62,786.02

Total Job Cost: \$313,930

Job Hours: 344.00

REVEGETATION WORK

Task description:	Seed and Mulch 20 A	cres Newly S	tripped Area	ì		
E: Fountain Pit	Permit Action: TR-3 Update Permit/Job#:			: M1982155		
PROJECT IDENTIF	ICATION					
Task #: 610	State: Col	lorado		Abl	oreviation:	None
Date: 10/28/202		Paso		_		M155-610
User: TC1				_	_	
Agency or orga	nization name: DRMS					
FERTILIZING						
Materials						
Description		Units / Acre	Unit	Cos	t / Unit	Cost /Acre
				\$		\$
				Tot	al Fertilizer Materials Cost/Acre	\$0.00
Description						\$
		Total	Fertilizer A	pplication	n Cost/Acre	\$0.00
<u> </u>						
Description						Cost /Acre
Chisel plowing {DMC	G}					\$98.43
	,		To	otal Tillin	g Cost/Acre	\$98.43
SEEDING						
				Rate –		
Seed Mix				PLS	Seeds	Cost /Acre
				LBS /	per SQ. FT	
·				Acre		0.50.5
Blue Grama - Native				0.50	8.16	\$6.86
Little Bluestem - Nati				1.00	5.97	\$13.57
Sideoats Grama - Vau	ıghn			1.00	3.28	\$8.38

White Sweet Clover

Western Wheatgrass - Native

Needlegrass, Green - Lodorm

\$2.06

\$18.00

\$23.55

\$72.42

0.50

3.00

2.00

8.00

Totals Seed Mix

2.98

7.58

8.31

36.28

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
	Total Mulch Application Cost/Acre	\$214.57

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 20 Cost /Acre: \$1,460.14

Estimated Failure Rate: 25% Cost /Acre*: \$1,460.14

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$29,202.80

Reseeding Job Cost: \$7,300.70

Total Job Cost: \$36,504

Job Hours: 344.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/demob (includ	les AM-3 area)			
ite: Fountain Pit	Permit	t Action: TR-3	Update	Permit/Job#	: M1982155
PROJECT IDENTIFICATI	<u>ION</u>				
Task #: 700	State: C	olorado	\mathbf{A}^{T}	bbreviation:	None
Date: 9/28/2022 User: TC1	County: E	l Paso		Filename:	M155-700
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shif	t basis: 1	per day
			Cost Data S		RG Data
Truck Tractor Desc	eription: GENI	ERIC ON-HIGH	WAY TRUCK TRAG 400 HP (2ND HA		IESEL POWERED,
Truck Trailer Desc	cription:	GENERIC FOLD	ING GOOSENECK		EQUIPMENT
		,	TRAILER (25T, 50T	, AND 100T)	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	=	
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58	_	
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41	=	
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71	_	
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22		

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$68.22

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
ī	(TONS)						
Cat D9T - 9SU	60.01	\$146.30	\$136.92	1	\$283.22	\$136.92	\$250.00
Drill/Broadcast	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
(Bowie LD-90)							
Cat 730	25.19	\$97.13	\$68.22	3	\$496.05	\$204.66	\$750.00
CAT 14M	23.57	\$120.14	\$68.22	1	\$188.36	\$68.22	\$250.00
Cat D7R DS	34.57	\$92.78	\$101.82	1	\$194.60	\$101.82	\$250.00
Series II LGP							
CAT 980H	33.12	\$54.58	\$101.82	1	\$156.40	\$101.82	\$250.00
Water Tanker,	15.00	\$37.19	\$68.22	1	\$105.41	\$68.22	\$250.00
5,000 Gal.							

\$101.82

\$136.92

Subtotals: \$1,581.52 \$818.10 \$2,500.00

ROADABLE EQUIPMENT:

Machine Description Tot uni	ral Cost/hr/ Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals:	\$0.00	\$0.00
Suctours.	Ψυ•υυ	Ψυ•υυ

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:

\$8,021.29

\$0.00

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.30	0.30
Return Time (Hours):	0.30	0.30
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.10	0.60

JOB TIME AND COST

Total job cost: 2.20 Hours

Total job cost: \$8,021