

Wayne Goethel

COMPLETED PROJECTS

Grade Raise		Project 1 Wink Grade (Site 4-S)		Project 2 Gandrud Grade (11-S)		Project 3 Terry Steve Grade (10-S)	
Length	975 ft		1350 ft		735 ft		
Width	22 ft		22 ft		22 ft		
Height of existing road	5.5 ft		4 ft		5.3 ft		
Raise	1 ft		1 ft		1 ft		
Slope 1 Length	13 ft		10 ft		18.9 ft		
Slope Ratio	2		2		3		
Existing Slope	8 ft		8 ft		8 ft		
Finish Surface Gravel Depth	0.5 ft		0.5 ft		0.5 ft		
Pt*3/Yd	27		27		27		
Cost Pit Run	\$ 20.00 yd		\$ 20.00 yd		\$ 20.00 yd		
Cost Gravel	\$ 24.00 yd		\$ 24.00 yd		\$ 24.00 yd		
Cost Rip Rap	\$ 61.00 yd		\$ 61.00 yd		\$ 61.00 yd		
Yards/Load	20 yd		20 yd		20 yd		
Pit Run Surface	794 yds	40.00 loads	1100.00 yds	55.00 loads	598.89 yds	30.00 loads	
Pit Run Slopes	2289 yds	115.00 loads	1750.00 yds	88.00 loads	2431.01 yds	122.00 loads	
Pit Run Each Side	1144 yds	58.00 loads	875.00 yds	44.00 loads	1215.51 yds	61.00 loads	
Pit Run Total	3083 yds \$	61,659.72	2850 yds \$	57,000.00	3030 yds \$	60,598.03	
Gravel	397 yds	20 loads	550 yds	28 loads	299 yds	15 loads	
Gravel Total	\$	9,533.33	\$	13,200.00	\$	7,186.67	
Rip Rap Each Slope	235 yds	11.74 loads	250 yds	12.50 loads	257 yds	12.86 loads	
Rip Rap Total	469 yds \$	23.47 loads 28,636.11	500 yds \$	25.00 loads 30,500.00	515 yds \$	25.73 loads 31,384.50	
Sub Total	\$	99,829.17	\$	100,700.00	\$	99,169.19	

Total	\$ 299,698.36
-------	---------------

STAVE TOWNSHIP

T157 North, Range 88 West 5th P.M.

FEMA Project DR-4128-ND 2013

PA-08-ND-4128-PW#00103(0)

Improved Project Request

NOT COMPLETED

Grade Raise	Project 4 East Quigly Grade (7-5)			Project 5 Midbow Grade (8-5)			Project 6 Alvstad Grade (14-5)		
	875 ft	22 ft	5 ft	750 ft	22 ft	5 ft	900 ft	22 ft	5 ft
Length									
Width									
Height of existing road									
Raise									
Slope 1 Length									
Slope Ratio									
Existing Slope									
Finish Surface Gravel Depth									
Ft ³ /Yd									
Cost Pit Run									
Cost Gravel									
Cost Rip Rap									
Yards/Load									
Pit Run Surface	2140.00 yds	107.00 loads		620.00 yds	31.00 loads		1480.00 yds	74.00 loads	
Pit Run Slopes	6240.00 yds	312.00 loads		3000.00 yds	150.00 loads		4900.00 yds	245.00 loads	
Pit Run Each Side	3120.00 yds	156.00 loads		1500.00 yds	75.00 loads		2450.00 yds	123.00 loads	
Pit Run Total	8380 yds	\$ 251,400.00		3620 yds	\$ 72,400.00		6380 yds	\$ 191,400.00	
Gravel	360 yds	18 loads		320 yds	16 loads		380 yds	19 loads	
Gravel Total		\$ 8,640.00			\$ 7,680.00			\$ 9,120.00	
Rip Rap Each Slope	800 yds	40 loads		500 yds	25 loads		700 yds	35 loads	
Rip Rap Total	1600 yds	80 loads		1000 yds	50 loads		1400 yds	70 loads	
		\$ 97,600.00			\$ 61,000.00			\$ 85,400.00	
Sub Total		\$ 357,640.00			\$ 141,080.00			\$ 285,920.00	

Total \$ 784,640.00

STAVE TOWNSHIP
Mountrail County
T157 North, Range
29 miles of Gravel

Road Data		Project 1 - Road Reconstruct 66th Ave; 1/2 mi N & S from 69th St		Project 2 - Gravel 1 mi 65 th Ave; 71st St to 72nd		Project 3 - Gravel 10 mi	
Length	5280 ft	5280 ft	5280 ft	5280 ft	5280 ft	5280 ft	
Width	22 ft	22 ft	22 ft	22 ft	22 ft	22 ft	
Height of existing road	0.5 ft	4 ft	4 ft	4 ft	5.3 ft	5.3 ft	
Raise	1 ft	0 ft	0 ft	0 ft	0 ft	0 ft	
Slope Length	3 ft	0 ft	0 ft	0 ft	0 ft	0 ft	
Existing Slope	8 ft	0 ft	0 ft	0 ft	0 ft	0 ft	
Finish Surface Gravel Depth	0.5 ft	0.25 ft	0.25 ft	0.25 ft	0.25 ft	0.25 ft	
Cost Pit Run	\$ 20.00 yd	\$ 20.00 yd	\$ 20.00 yd	\$ 20.00 yd	\$ 20.00 yd	\$ 20.00 yd	
Cost Gravel	\$ 24.00 yd	\$ 24.00 yd	\$ 24.00 yd	\$ 24.00 yd	\$ 24.00 yd	\$ 24.00 yd	
Yards/Load	20 yd	20 yd	20 yd	20 yd	20 yd	20 yd	
Pit Run Surface	4302 yds	216.00 loads	0.00 yds	0.00 loads	0.00 yds	0.00 loads	0.00 loads
Pit Run Slopes	660 yds	33.00 loads	0.00 yds	0.00 loads	0.00 yds	0.00 loads	0.00 loads
Pit Run Each Side	330 yds	17.00 loads	0.00 yds	0.00 loads	0.00 yds	0.00 loads	0.00 loads
Total Pit Run	4962 yds \$	99,244.44	0 yds \$	-	0 yds \$	0 yds \$	-
Gravel	2151 yds	108 loads	1076 yds	54 loads	10756 yds	538 loads	538 loads
	\$	51,626.67	\$	25,813.33	\$	258,133.33	
Sub Total	\$	150,871.11	\$	25,813.33	\$	258,133.33	
Total		\$ 434,817.78					