



WOOLPERT, INC.
 1203 Walnut St
 Cincinnati, OH 45202
 Phone: 513.272.8300
 Fax: 937.461.0743

Project: BUT-4-9.28
Location: Monroe, OH

Made By: BAP

Date: 3/7/2023

Chk'd By: MWZ

Date: 3/10/2023

Item 203 - Excavation
Item 203 - Embankment

Station	Earthwork and Seeding - 1488R (SR-4 NB)						
	End Area (SF)		Volume (CY)		Seeding Area (SY)		
	Cut	Fill	Cut	Fill	Length (L)	Length (R)	Area
19+00.00	0	0			0	0	
			14	1			5
19+30.00	24	1			3	0	
			18	2			14
19+50.00	24	4			9	0	
			98	80			109
20+00.00	81	82			9	21	
			125	87			114
20+50.00	54	11			4	7	
			95	11			62
21+00.00	48	0			5	6	
			77	5			52
21+36.87	64	6			5	9	
1488R BRIDGE							
22+85.23	193	236			24	30	
			101	118			82
23+00.00	175	195			19	26	
			298	344			242
23+50.00	146	176			17	25	
			262	314			228
24+00.00	136	163			15	25	
			103	121			87
24+20.00	142	163			14	24	
			79	91			64
24+50.00	0	0			0	0	
	TOTALS		1,270	1,174			1,059



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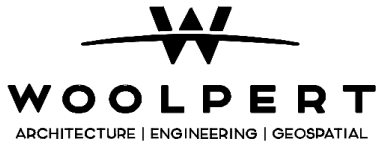
Date: 3/7/2023

Chk'd By: MWZ

Date: 7/13/2023

Item 203 - Excavation
Item 203 - Embankment

Station	Earthwork - 1480L (SR-4 SB)						
	End Area (SF)		Volume (CY)		Seeding Area (SY)		
	Cut	Fill	Cut	Fill	Length (L)	Length (R)	Area
413+50.00	0	0			0	0	
			6	0			1
413+63.00	24	1			1	0	
			34	2			15
414+00.00	25	2			2	4	
			108	120			125
414+38.65	126	165			42	10	
1480L BRIDGE							
416+42.78	33	4			8	6	
			29	3			35
416+70.00	24	2			6	3	
			34	2			30
417+08.00	24	1			4	1	
	TOTALS		211	127			206



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Date: 2/28/2023

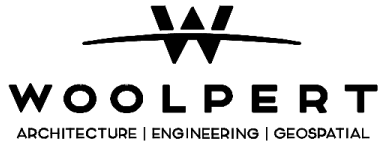
Chk'd By: MWZ

Date: 3/10/2023

Item 203 - Excavation
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Station	Earthwork - Crossover 1			
	End Area (SF)		Volume (CY)	
	Cut	Fill	Cut	Fill
502+00.00	0	0		
			0	0
502+03.02	2	1		
			5	2
502+50.00	4	1		
			11	1
503+00.00	8	0		
			20	1
503+50.00	14	1		
			5	0
503+60.45	12	1		
			18	4
504+00.00	12	5		
			10	11
504+35.29	3	12		
			2	7
504+50.00	4	15		
			7	15
504+76.19	10	16		
			5	16
505+00.00	1	20		
			6	36
505+50.00	6	19		
			11	30
506+00.00	6	13		
			11	11
506+27.68	15	9		
			9	7
506+50.00	6	7		
			11	10
507+00.00	6	4		

			2	2
507+11.96	5	4		
			6	5
507+50.00	4	3		
			6	8
508+00.00	3	6		
			6	10
508+50.00	3	5		
			6	10
509+00.00	3	6		
			6	11
509+50.00	4	6		
			7	11
510+00.00	4	6		
			10	9
510+50.00	7	4		
			1	1
510+53.91	7	4		
	TOTALS		181	218



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Item 203 - Excavation
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Station	Earthwork - Crossover 2			
	End Area (SF)		Volume (CY)	
	Cut	Fill	Cut	Fill
604+00.00	0	0		
			7	2
604+50.00	8	2		
			16	6
605+00.00	9	4		
			28	7
605+50.00	21	4		
			35	86
606+00.00	17	89		
			54	111
606+50.00	41	31		
			96	33
607+00.00	63	5		
			81	63
607+50.00	25	63		
			33	152
608+00.00	11	101		
			25	194
608+50.00	16	108		
			17	170
609+00.00	2	76		
			4	113
609+50.00	2	46		
			10	69
610+00.00	9	28		
			83	259
615+00.00	0	0		
	TOTALS		489	1,265



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Made By: MDK Date: 8/26/2022

Chk'd By: MWZ Date: 3/10/2023

The calculations shown below are as described in the ODOT Seeding and Mulching designer note.

Enter Area to be Seeded and Mulched 1,292 SY

ITEM 659 SEEDING AND MULCHING 1,292 SY

ITEM 659 TOPSOIL

111 CY PER 1000 SY OF PERMANENT SEEDING

111 X 1,292 / 1000 = 143 CY

ITEM 659 SOIL ANALYSIS TEST

ONE TEST PER 10000 CY TOPSOIL, WITH A MINIMUM OF TWO

2 EACH

ITEM 659 COMMERCIAL FERTILIZER

30 LBS PER 1000 SF OF PERMANENT SEEDING

30 X 1,292 X 9 / 1000 / 20 0.17

20 LBS PER 1000 SF OF INTER SEEDING

20 X 65 X 9 / 1000 / 2000 = 0.01 0.18 TONS

ITEM 659 WATER

2 APPLICATIONS AT 300 GALLONS PER 1000 SF (PERMANENT)

1,292 X 9 / 1000 X (2 X 300) / 1000 = 7 MGAL

1 APPLICATIONS AT 300 GALLONS PER 1000 SF (INTER SEEDING)

65 X 9 / 1000 X 300 / 1000 = 0 MGAL 7 MGAL

ITEM 659 INTER SEEDING

5% OF PERMANENT SEEDING AND MULCHING

5% X 1,292 = 65 SY

ITEM 659 LIME

1,292 X 9 / 43560 = 0.27 ACRES

ITEM 659 REPAIR SEEDING AND MULCHING

5% OF PERMANENT SEEDING AND MULCHING

5% X 1,292 = 65 SY

ITEM 832 EROSION CONTROL

1 EA

ITEM 659 MOWING

25% of PERMANENT SEEDING AREA

25% X 1,292 * 9 / 1000 = 3 M SQ FT



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ITEM 615 - ROADS FOR MAINTAINING TRAFFIC

ITEM	DESCRIPTION	UNIT	TOTAL	UNIT COST	EST. COST
202	GUARDRAIL REMOVED	FT	25	\$ 2.00	\$ 50.00
203	EXCAVATION	CY	670	\$ 25.00	\$ 16,750.00
203	EMBANKMENT	CY	1,483	\$ 25.00	\$ 37,075.00
601	RCP, TYPE C WITH FILTER FABRIC	CY	10	\$ 300.00	\$ 3,000.00
602	CONCRETE MASONRY	CY	0.42	\$ 4,000.00	\$ 1,680.00
611	12" CONDUIT, TYPE B	FT	157	\$ 125.00	\$ 19,625.00
612	12" CONDUIT, TYPE D	FT	47	\$ 126.00	\$ 5,922.00
611	CATCH BASIN, 2-2B	EA	2	\$ 2,500.00	\$ 5,000.00
659	TOPSOIL	CY	422	\$ 50.00	\$ 21,100.00
659	SEEDING AND MULCHING	SY	3,805	\$ 2.00	\$ 7,610.00
659	REPAIR SEEDING AND MULCHING	SY	190	\$ 1.00	\$ 190.00
659	INTER-SEEDING	SY	190	\$ 1.00	\$ 190.00
659	COMMERCIAL FERTILIZER	TON	0.53	\$ 1,000.00	\$ 530.00
659	LIME	ACRE	0.79	\$ 100.00	\$ 79.00
659	WATER	MGAL	21	\$ 5.00	\$ 105.00
				TOTAL	\$ 119,000.00