

GRADING REPORT

COMPUTED BY: Alex Keelty
CHECKED BY:
FEDERAL PROJECT NO: HSIP-131(33)
ROUTE NO. OR STREET: 131

SHEET 1 OF 8
STATE NO.: 47027-3222-94
PIN:119390.00
COUNTY: Knox

ESTIMATED GRADING QUANTITIES						
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY	
		EXC.	EMB.	EXC.	SHRINK = 5 % SWELL = 5 %	
MAINLINE		620	5732	589	EMB. EXC. 10426 VS. -5415 AVAILABLE = 5011 BORROW MATERIAL = 5262	
SIDE ROADS		3524	2782	3348		
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		115	487	110		
INDEPENDENT DITCHES		0	0			
TEMPORARY CONSTRUCTION EXITS		15	0	15		
OTHER (TEMPORARY RUNAROUND)		1425	1425	1354		
TOPSOIL (EMB.)		535				
TOPSOIL (EXC.)		399				
TOPSOIL TOTALS (SEE TOPSOIL TABLE)						
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	
0	0	6633	10426	6633	5699	

Mainline

Material Name	End Areas	Unadjusted	Adjusted	Mult	Mass	Accum	Accum
Station		Volumes	Volumes	Factor	Ordinate	Unadj Vol	Adj Vol
	(sq. ft.)	(cu. yd.)	(cu. yd.)			(cu. yd.)	(cu. yd.)

105+50.00 EARTH							
Excavation	9	0	0	0.85		0	0
Fill	39	0	0	1.00	0	0	0
TOPSOIL							
Excavation	8	0	0	1.00		0	0
Fill	0	0	0	1.00	0	0	0
Mass ordinate for TOPSOIL = 0							
106+00.00 EARTH							
Excavation	13	20	17	0.85		20	17
Fill	94	123	123	1.00	-106	123	123

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TOPSOIL

Excavation	17	24	24	1.00		24	24
Fill	0	0	0	1.00	-106	0	0

Mass ordinate for TOPSOIL = 24

106+50.00 EARTH

Excavation	15	26	22	0.85		46	39
Fill	113	192	192	1.00	-276	315	315

TOPSOIL

Excavation	18	32	32	1.00		56	56
Fill	0	0	0	1.00	-276	0	0

Mass ordinate for TOPSOIL = 56

107+00.00 EARTH

Excavation	14	27	23	0.85		73	62
Fill	150	244	244	1.00	-497	559	559

TOPSOIL

Excavation	18	33	33	1.00		89	89
Fill	0	0	0	1.00	-497	0	0

Mass ordinate for TOPSOIL = 89

107+50.00 EARTH

Excavation	11	23	20	0.85		96	82
Fill	255	375	375	1.00	-852	934	934

TOPSOIL

Excavation	21	36	36	1.00		125	125
Fill	0	0	0	1.00	-852	0	0

Mass ordinate for TOPSOIL = 125

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108+00.00 EARTH

Excavation	7	17	14	0.85		113	96
Fill	545	741	741	1.00	-1579	1675	1675

TOPSOIL

Excavation	27	45	45	1.00		170	170
Fill	0	0	0	1.00	-1579	0	0

Mass ordinate for TOPSOIL = 170

108+50.00 EARTH

Excavation	7	13	11	0.85		126	107
Fill	616	1075	1075	1.00	-2643	2750	2750

TOPSOIL

Excavation	29	52	52	1.00		222	222
Fill	0	0	0	1.00	-2643	0	0

Mass ordinate for TOPSOIL = 222

109+00.00 EARTH

Excavation	8	14	12	0.85		140	119
Fill	850	1357	1357	1.00	-3988	4107	4107

TOPSOIL

Excavation	35	60	60	1.00		282	282
Fill	0	0	0	1.00	-3988	0	0

Mass ordinate for TOPSOIL = 282

109+50.00 EARTH

Excavation	7	14	12	0.85		154	131
Fill	360	1120	1120	1.00	-5096	5227	5227

TOPSOIL

Excavation	13	45	45	1.00		327	327
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Fill	0	0	0	1.00	-5096	0	0
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Mass ordinate for TOPSOIL = 327

110+00.00 EARTH

Excavation	30	34	29	0.85		188	160
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Fill	0	333	333	1.00	-5400	5560	5560
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TOPSOIL

Excavation	9	20	20	1.00		347	347
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Fill	0	0	0	1.00	-5400	0	0
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Mass ordinate for TOPSOIL = 347

110+50.00 EARTH

Excavation	33	58	50	0.85		246	210
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Fill	1	1	1	1.00	-5351	5561	5561
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TOPSOIL

Excavation	10	18	18	1.00		365	365
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Fill	0	0	0	1.00	-5351	0	0
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Mass ordinate for TOPSOIL = 365

111+00.00 EARTH

Excavation	37	65	55	0.85		311	265
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Fill	4	5	5	1.00	-5301	5566	5566
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TOPSOIL

Excavation	5	14	14	1.00		379	379
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Fill	0	0	0	1.00	-5301	0	0
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Mass ordinate for TOPSOIL = 379

111+50.00 EARTH

Excavation	28	60	51	0.85		371	316
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112+00.00 EARTH

112+50.00 EARTH

113+00.00 EARTH

Excavation	16	46	39	0.85		535	456
Fill	15	14	14	1.00	-5144	5600	5600
TOPSOIL							
Excavation	9	16	16	1.00		421	421
Fill	0	0	0	1.00	-5144	0	0
Mass ordinate for TOPSOIL = 421							

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113+50.00 EARTH

Excavation	10	24	20	0.85		559	476
Fill	21	33	33	1.00	-5157	5633	5633

TOPSOIL

Excavation	8	15	15	1.00		436	436
Fill	0	0	0	1.00	-5157	0	0

Mass ordinate for TOPSOIL = 436

114+00.00 EARTH

Excavation	15	23	20	0.85		582	496
Fill	11	30	30	1.00	-5167	5663	5663

TOPSOIL

Excavation	9	15	15	1.00		451	451
Fill	0	0	0	1.00	-5167	0	0

Mass ordinate for TOPSOIL = 451

114+50.00 EARTH

Excavation	8	21	18	0.85		603	514
Fill	12	21	21	1.00	-5170	5684	5684

TOPSOIL

Excavation	6	14	14	1.00		465	465
Fill	0	0	0	1.00	-5170	0	0

Mass ordinate for TOPSOIL = 465

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G R A N D		S U M M A R Y		T O T A L S	
Material Name		Unadjusted	Adjusted	Mult	
		Volumes	Volumes	Factor	
		(cu. yd.)	(cu. yd.)		

EARTH					
Excavation		603	514	0.85	
Fill		5684	5684	1.00	
TOPSOIL					
Excavation		465	465	1.00	
Fill		0	0	1.00	

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Material Name	S P L I T		S U M M A R Y		T O T A L S	
	XS Quant		XS Quant	Add/Sub Quant	Add/Sub Quant	
	Unadjusted	Adjusted	Unadjusted	Adjusted	Mult	
	Volume	Volume	Volume	Volume	Factor	
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)		

EARTH						
Excavation	603	514	0	0	0.85	
Fill	5684	5684	0	0	1.00	
TOPSOIL						
Excavation	465	465	0	0	1.00	
Fill	0	0	0	0	1.00	