

GRADING REPORT

COMPUTED BY: Logan Inman
 CHECKED BY: Joseph DeLorenzo
 FEDERAL PROJECT NO: BRZ-7000(34)
 ROUTE NO. OR STREET: Easley Ford Rd Bridge over Conasauga River

SHEET 1 OF 9
 STATE NO.: 70LCOU-F3-003
 PIN: 122332.00
 COUNTY: Polk

ESTIMATED GRADING QUANTITIES						
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY	
		EXC.	EMB.	EXC.	SHRINK = 18 % SWELL = 15 %	
EASLEY FORD RD		9014	7274	7392	EMB. EXC. 9196 VS -7908 AVAILABLE = 1288 BORROW MATERIAL = 1482	
TEMPORARY CONSTRUCTION EXITS		29		24		
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		14	1064	12		
HAUL ROAD 2		421		346		
HAUL ROAD 1			858			
OTHER (BRIDGE EXCAVATION FOR ABUTMENTS)		165		136		
TOPSOIL (EMB.)		932				
TOPSOIL (EXC.)		276				
ROCK (TONS)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC. (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
		10851	9196	10851	9643	7908

BEGINNING EARTHWORKS COMPUTATION

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.)	

77+00.00 EARTH							
Excavation	98	91	74	0.82	91	74	
Fill	0	0	0	1.15	74	0	0
77+04.74 EARTH							
Excavation	118	19	16	0.82	110	90	
Fill	0	0	0	1.15	90	0	0
77+50.00 EARTH							
Excavation	350	392	322	0.82	502	412	
Fill	7	6	7	1.15	405	6	7

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77+93.49 EARTH

Excavation	563	735	603	0.82		1237	1015
Fill	0	6	6	1.15	1002	12	13

77+99.45 EARTH

Excavation	611	130	106	0.82		1367	1121
Fill	0	0	0	1.15	1108	12	13

78+00.00 EARTH

Excavation	616	12	10	0.82		1379	1131
Fill	0	0	0	1.15	1118	12	13

78+50.00 EARTH

Excavation	1235	1714	1405	0.82		3093	2536
Fill	0	0	0	1.15	2523	12	13

78+88.20 EARTH

Excavation	1680	2062	1691	0.82		5155	4227
Fill	0	0	0	1.15	4214	12	13

79+00.00 EARTH

Excavation	1344	661	542	0.82		5816	4769
Fill	0	0	0	1.15	4756	12	13

79+02.21 EARTH

Excavation	1230	105	86	0.82		5921	4855
Fill	0	0	0	1.15	4842	12	13

79+04.50 EARTH

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Excavation	1094	99	81	0.82		6020	4936
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Fill	0	0	0	1.15	4923	12	13
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79+39.58 EARTH

Excavation	0	711	583	0.82		6731	5519
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Fill	92	60	69	1.15	5437	72	82
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79+50.00 EARTH

Excavation	0	0	0	0.82		6731	5519
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Fill	123	41	48	1.15	5389	113	130
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79+76.95 EARTH

Excavation	0	0	0	0.82		6731	5519
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Fill	246	184	212	1.15	5177	297	342
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79+85.00 EARTH

Excavation	0	0	0	0.82		6731	5519
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Fill	296	81	93	1.15	5084	378	435
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82+00.00 EARTH

Excavation	271	1079	885	0.82		7810	6404
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Fill	0	1179	1355	1.15	4614	1557	1791
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82+35.00 EARTH

Excavation	252	338	277	0.82		8148	6681
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Fill	614	397	456	1.15	4435	1954	2247
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ROCK

Fill	272	0	0	1.00		0	0
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82+50.00 EARTH

Excavation	0	70	57	0.82		8218	6738
Fill	595	335	385	1.15	4107	2289	2632

ROCK

Fill	243	143	143	1.00		143	143
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82+63.74 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	575	297	341	1.15	3766	2586	2973

ROCK

Fill	220	118	118	1.00		261	261
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82+66.45 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	572	57	65	1.15	3701	2643	3038

ROCK

Fill	215	22	22	1.00		283	283
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82+72.83 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	562	133	152	1.15	3549	2776	3190

ROCK

Fill	199	49	49	1.00		332	332
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82+92.48 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	548	403	463	1.15	3089	3179	3653

ROCK

Fill	175	136	136	1.00		468	468
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83+00.00 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	535	150	172	1.15	2914	3329	3825

ROCK

Fill	159	47	47	1.00		515	515
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83+50.00 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	545	1000	1150	1.15	1764	4329	5493

ROCK

Fill	148	284	284	1.00		799	799
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83+71.50 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	590	451	518	1.15	1246	4780	5493

ROCK

Fill	227	149	149	1.00		948	948
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84+00.00 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	728	695	799	1.15	447	5475	6292

ROCK

Fill	239	246	246	1.00		1194	1194
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84+50.00 EARTH

Excavation	0	0	0	0.82		8218	6738
Fill	475	1113	1279	1.15	-832	6588	7571

ROCK

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Fill	173	381	381	1.00		1575	1575
84+63.96 EARTH							
Excavation	0	0	0	0.82		8218	6738
Fill	339	210	241	1.15	-1073	6798	7812
ROCK							
Fill	151	84	84	1.00		1659	1659
85+00.00 EARTH							
Excavation	0	0	0	0.82		8218	6738
Fill	117	304	349	1.15	-1422	7102	8161
ROCK							
Fill	134	190	190	1.00		1849	1849
85+50.00 EARTH							
Excavation	0	0	0	0.82		8218	6738
Fill	37	142	163	1.15	-1585	7244	8324
85+52.71 EARTH							
Excavation	0	0	0	0.82		8218	6738
Fill	33	3	3	1.15	-1588	7247	8327
85+66.72 EARTH							
Excavation	35	9	7	0.82		8227	6745
Fill	16	12	13	1.15	-1594	7259	8340
85+69.01 EARTH							
Excavation	44	3	2	0.82		8231	6747
Fill	14	1	1	1.15	-1593	7260	8341

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86+00.00 EARTH

Excavation	114	90	73	0.82		8320	6820
Fill	3	9	10	1.15	-1530	7269	8351

86+04.09 EARTH

Excavation	120	17	13	0.82		8337	6833
Fill	2	0	0	1.15	-1517	7269	8351

86+41.46 EARTH

Excavation	133	175	143	0.82		8512	6976
Fill	1	2	2	1.15	-1376	7271	8353

86+50.00 EARTH

Excavation	127	41	33	0.82		8553	7009
Fill	1	0	0	1.15	-1343	7271	8353

87+00.00 EARTH

Excavation	94	204	167	0.82		8757	7176
Fill	2	2	2	1.15	-1178	7273	8355

87+50.00 EARTH

Excavation	75	156	127	0.82		8913	7303
Fill	0	1	1	1.15	-1052	7274	8356

88+00.00 EARTH

Excavation	35	101	82	0.82		9014	7385
Fill	0	0	0	1.15	-970	7274	8356

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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 Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
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EARTH

Excavation	9019	7396	0.82
Fill	8886	10215	1.15

ROCK

Fill	1849	1849	1.00
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S P L I T S U M M A R Y T O T A L S

Material Name	XS Quant	XS Quant	Add/Sub Quant	Add/Sub Quant	Mult Factor
	Unadjusted	Adjusted	Unadjusted	Adjusted	
	Volume	Volume	Volume	Volume	
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

EARTH

Excavation	9014	7385	0	0	0.82
Fill	7274	8356	0	0	1.15

ROCK

Excavation	1849	1849	0	0	1.00
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B A L A N C E P O I N T S U M M A R Y

Material Name	Cumulative		Incremental		Mult Factor
	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	

Station = 84+17.44

EARTH

Excavation	8218	6738	8218	6738	0.82
Fill	5859	6738	5859	6738	1.15