

GRADING REPORT

COMPUTED BY: TYRIQUE MCSHAND
CHECKED BY: ERIC KIM, P.E.
FEDERAL PROJECT NO: ER-STP-34(146)
ROUTE NO. OR STREET: SR-34 (US 421)

SHEET 1 OF 24
STATE NO.: 46S034-F3-006
PIN: 135866.64
COUNTY: JOHNSON

ESTIMATED GRADING QUANTITIES						
DESCRIPTION		UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)	BALANCE SUMMARY	
		EXC.	EMB.	EXC.	SHRINK = 5 % SWELL = 5 %	
MAINLINE		9945	0	9448	EXC. EMB. 9468 VS. 0 AVAILABLE = 9468 WASTE MATERIAL = 9942	
SIDE ROADS		0	0			
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES		0	0			
INDEPENDENT DITCHES		0	0			
TEMPORARY CONSTRUCTION EXITS		21	0	20		
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)		0	0			
TOPSOIL (EMB.)		0				
TOPSOIL (EXC.)		0				
TOPSOIL TOTALS (SEE TOPSOIL TABLE)						
ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	9966	0	9966	9966	9468

Mainline: SR-34 (US 421)

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.)

138+20.00 EARTH							
Excavation	0.0	0	0	0.95		0	0
Fill	0.0	0	0	1.00	0	0	0
138+30.00 EARTH							
Excavation	64.7	12	11	0.95		12	11
Fill	0.0	0	0	1.00	11	0	0
138+40.00 EARTH							
Excavation	269.6	62	59	0.95		74	70
Fill	0.0	0	0	1.00	70	0	0

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138+50.00 EARTH

Excavation	518.3	146	139	0.95		220	209
Fill	0.0	0	0	1.00	209	0	0

138+60.00 EARTH

Excavation	554.8	199	189	0.95		419	398
Fill	0.0	0	0	1.00	398	0	0

138+70.00 EARTH

Excavation	645.4	222	211	0.95		641	609
Fill	0.0	0	0	1.00	609	0	0

138+80.00 EARTH

Excavation	749.6	258	245	0.95		899	854
Fill	0.0	0	0	1.00	854	0	0

138+90.00 EARTH

Excavation	574.9	245	233	0.95		1144	1087
Fill	0.0	0	0	1.00	1087	0	0

139+00.00 EARTH

Excavation	367.2	174	166	0.95		1318	1253
Fill	0.0	0	0	1.00	1253	0	0

139+10.00 EARTH

Excavation	384.1	139	132	0.95		1457	1385
Fill	0.0	0	0	1.00	1385	0	0

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139+20.00 EARTH

Excavation	427.5	150	143	0.95		1607	1528
Fill	0.0	0	0	1.00	1528	0	0

139+30.00 EARTH

Excavation	261.7	128	121	0.95		1735	1649
Fill	0.0	0	0	1.00	1649	0	0

139+40.00 EARTH

Excavation	443.7	131	124	0.95		1866	1773
Fill	0.0	0	0	1.00	1773	0	0

139+50.00 EARTH

Excavation	665.7	205	195	0.95		2071	1968
Fill	0.0	0	0	1.00	1968	0	0

139+60.00 EARTH

Excavation	658.8	245	233	0.95		2316	2201
Fill	0.0	0	0	1.00	2201	0	0

139+70.00 EARTH

Excavation	564.2	226	215	0.95		2542	2416
Fill	0.0	0	0	1.00	2416	0	0

139+80.00 EARTH

Excavation	579.9	212	201	0.95		2754	2617
Fill	0.0	0	0	1.00	2617	0	0

139+90.00 EARTH

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Excavation	494.2	199	189	0.95		2953	2806
Fill	0.0	0	0	1.00	2806	0	0
140+00.00 EARTH							
Excavation	380.5	162	154	0.95		3115	2960
Fill	0.0	0	0	1.00	2960	0	0
140+10.00 EARTH							
Excavation	408.0	146	139	0.95		3261	3099
Fill	0.0	0	0	1.00	3099	0	0
140+20.00 EARTH							
Excavation	377.9	146	138	0.95		3407	3237
Fill	0.0	0	0	1.00	3237	0	0
140+30.00 EARTH							
Excavation	445.6	153	145	0.95		3560	3382
Fill	0.0	0	0	1.00	3382	0	0
140+40.00 EARTH							
Excavation	387.3	154	147	0.95		3714	3529
Fill	0.0	0	0	1.00	3529	0	0
140+50.00 EARTH							
Excavation	390.4	144	137	0.95		3858	3666
Fill	0.0	0	0	1.00	3666	0	0
140+60.00 EARTH							
Excavation	407.0	148	140	0.95		4006	3806

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Fill	0.0	0	0	1.00	3806	0	0
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140+70.00 EARTH

Excavation	407.1	151	143	0.95		4157	3949
Fill	0.0	0	0	1.00	3949	0	0

140+80.00 EARTH

Excavation	414.5	152	145	0.95		4309	4094
Fill	0.0	0	0	1.00	4094	0	0

140+90.00 EARTH

Excavation	337.4	139	132	0.95		4448	4226
Fill	0.0	0	0	1.00	4226	0	0

141+00.00 EARTH

Excavation	340.0	125	119	0.95		4573	4345
Fill	0.0	0	0	1.00	4345	0	0

141+10.00 EARTH

Excavation	274.2	114	108	0.95		4687	4453
Fill	0.0	0	0	1.00	4453	0	0

141+20.00 EARTH

Excavation	262.5	99	94	0.95		4786	4547
Fill	0.0	0	0	1.00	4547	0	0

141+30.00 EARTH

Excavation	326.0	109	104	0.95		4895	4651
Fill	0.0	0	0	1.00	4651	0	0

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141+40.00 EARTH

Excavation	348.7	125	119	0.95		5020	4770
Fill	0.0	0	0	1.00	4770	0	0

141+50.00 EARTH

Excavation	384.0	136	129	0.95		5156	4899
Fill	0.0	0	0	1.00	4899	0	0

141+60.00 EARTH

Excavation	338.1	134	127	0.95		5290	5026
Fill	0.0	0	0	1.00	5026	0	0

141+70.00 EARTH

Excavation	339.5	125	119	0.95		5415	5145
Fill	0.0	0	0	1.00	5145	0	0

141+80.00 EARTH

Excavation	248.6	109	103	0.95		5524	5248
Fill	0.0	0	0	1.00	5248	0	0

141+90.00 EARTH

Excavation	330.4	107	102	0.95		5631	5350
Fill	0.0	0	0	1.00	5350	0	0

142+00.00 EARTH

Excavation	278.5	113	107	0.95		5744	5457
Fill	0.0	0	0	1.00	5457	0	0

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142+10.00 EARTH

Excavation	196.8	88	84	0.95		5832	5541
Fill	0.0	0	0	1.00	5541	0	0

142+20.00 EARTH

Excavation	269.3	86	82	0.95		5918	5623
Fill	0.0	0	0	1.00	5623	0	0

142+30.00 EARTH

Excavation	291.4	104	99	0.95		6022	5722
Fill	0.0	0	0	1.00	5722	0	0

142+40.00 EARTH

Excavation	135.4	79	75	0.95		6101	5797
Fill	0.0	0	0	1.00	5797	0	0

142+50.00 EARTH

Excavation	144.6	52	49	0.95		6153	5846
Fill	0.0	0	0	1.00	5846	0	0

142+60.00 EARTH

Excavation	183.7	61	58	0.95		6214	5904
Fill	0.0	0	0	1.00	5904	0	0

142+70.00 EARTH

Excavation	162.3	64	61	0.95		6278	5965
Fill	0.0	0	0	1.00	5965	0	0

142+80.00 EARTH

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Excavation	363.9	97	93	0.95		6375	6058
Fill	0.0	0	0	1.00	6058	0	0
142+90.00 EARTH							
Excavation	552.0	170	161	0.95		6545	6219
Fill	0.0	0	0	1.00	6219	0	0
143+00.00 EARTH							
Excavation	645.0	222	211	0.95		6767	6430
Fill	0.0	0	0	1.00	6430	0	0
143+10.00 EARTH							
Excavation	680.5	245	233	0.95		7012	6663
Fill	0.0	0	0	1.00	6663	0	0
143+20.00 EARTH							
Excavation	619.3	241	229	0.95		7253	6892
Fill	0.0	0	0	1.00	6892	0	0
143+30.00 EARTH							
Excavation	602.0	226	215	0.95		7479	7107
Fill	0.0	0	0	1.00	7107	0	0
143+40.00 EARTH							
Excavation	639.8	230	218	0.95		7709	7325
Fill	0.0	0	0	1.00	7325	0	0
143+50.00 EARTH							
Excavation	744.1	256	243	0.95		7965	7568

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Fill	0.0	0	0	1.00	7568	0	0
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143+60.00 EARTH

Excavation	620.9	253	240	0.95		8218	7808
Fill	0.0	0	0	1.00	7808	0	0

143+70.00 EARTH

Excavation	640.5	234	222	0.95		8452	8030
Fill	0.0	0	0	1.00	8030	0	0

143+80.00 EARTH

Excavation	327.9	179	170	0.95		8631	8200
Fill	0.0	0	0	1.00	8200	0	0

143+90.00 EARTH

Excavation	348.1	125	119	0.95		8756	8319
Fill	0.0	0	0	1.00	8319	0	0

144+00.00 EARTH

Excavation	307.8	121	115	0.95		8877	8434
Fill	0.0	0	0	1.00	8434	0	0

144+10.00 EARTH

Excavation	495.7	149	141	0.95		9026	8575
Fill	0.0	0	0	1.00	8575	0	0

144+20.00 EARTH

Excavation	528.3	190	180	0.95		9216	8755
Fill	0.0	0	0	1.00	8755	0	0

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144+30.00 EARTH

Excavation	207.8	136	129	0.95		9352	8884
Fill	0.0	0	0	1.00	8884	0	0

144+40.00 EARTH

Excavation	300.1	94	89	0.95		9446	8973
Fill	0.0	0	0	1.00	8973	0	0

144+50.00 EARTH

Excavation	333.1	117	111	0.95		9563	9084
Fill	0.0	0	0	1.00	9084	0	0

144+60.00 EARTH

Excavation	205.2	100	95	0.95		9663	9179
Fill	0.0	0	0	1.00	9179	0	0

144+70.00 EARTH

Excavation	126.0	61	58	0.95		9724	9237
Fill	0.0	0	0	1.00	9237	0	0

144+80.00 EARTH

Excavation	143.7	50	47	0.95		9774	9284
Fill	0.0	0	0	1.00	9284	0	0

144+90.00 EARTH

Excavation	126.0	50	47	0.95		9824	9331
Fill	0.0	0	0	1.00	9331	0	0

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145+00.00 EARTH

Excavation	160.8	53	50	0.95		9877	9381
Fill	0.0	0	0	1.00	9381	0	0

145+10.00 EARTH

Excavation	60.3	41	39	0.95		9918	9420
Fill	0.0	0	0	1.00	9420	0	0

145+20.00 EARTH

Excavation	44.9	19	19	0.95		9937	9439
Fill	0.0	0	0	1.00	9439	0	0

145+30.00 EARTH

Excavation	0.0	8	8	0.95		9945	9447
Fill	0.0	0	0	1.00	9447	0	0

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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	9945	9447	0.95
Fill	0	0	1.00

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BUTTRESS REPORT: SR-34 (US 421)

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

138+40.00	EARTH							
	Excavation	0.0	0	0	1.00		0	0
	Fill	0.0	0	0	1.00	0	0	0
138+50.00	EARTH							
	Excavation	0.0	0	0	1.00		0	0
	Fill	114.4	21	21	1.00	-21	21	21
138+60.00	EARTH							
	Excavation	0.0	0	0	1.00		0	0
	Fill	111.0	42	42	1.00	-63	63	63
138+70.00	EARTH							
	Excavation	0.0	0	0	1.00		0	0
	Fill	100.1	39	39	1.00	-102	102	102
138+80.00	EARTH							
	Excavation	0.0	0	0	1.00		0	0
	Fill	160.0	48	48	1.00	-150	150	150
138+90.00	EARTH							
	Excavation	0.0	0	0	1.00		0	0
	Fill	220.0	70	70	1.00	-220	220	220

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139+00.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	280.0	93	93	1.00	-313	313	313

139+10.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	403.1	127	127	1.00	-440	440	440

139+20.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	400.0	149	149	1.00	-589	589	589

139+30.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	400.0	148	148	1.00	-737	737	737

139+40.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	401.4	148	148	1.00	-885	885	885

139+50.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	400.0	148	148	1.00	-1033	1033	1033

139+60.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	400.0	148	148	1.00	-1181	1181	1181

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139+70.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	503.0	167	167	1.00	-1348	1348	1348

139+80.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	503.3	186	186	1.00	-1534	1534	1534

139+90.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	503.0	186	186	1.00	-1720	1720	1720

140+00.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	503.0	186	186	1.00	-1906	1906	1906

140+10.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	503.0	186	186	1.00	-2092	2092	2092

140+20.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	503.1	186	186	1.00	-2278	2278	2278

140+30.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	539.8	193	193	1.00	-2471	2471	2471

140+40.00 EARTH

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Excavation	0.0	0	0	1.00		0	0
Fill	558.8	203	203	1.00	-2674	2674	2674
140+50.00 EARTH							
Excavation	0.0	0	0	1.00		0	0
Fill	553.3	206	206	1.00	-2880	2880	2880
140+60.00 EARTH							
Excavation	0.0	0	0	1.00		0	0
Fill	588.9	212	212	1.00	-3092	3092	3092
140+70.00 EARTH							
Excavation	0.0	0	0	1.00		0	0
Fill	645.6	229	229	1.00	-3321	3321	3321
140+80.00 EARTH							
Excavation	0.0	0	0	1.00		0	0
Fill	636.5	237	237	1.00	-3558	3558	3558
140+90.00 EARTH							
Excavation	0.0	0	0	1.00		0	0
Fill	682.0	244	244	1.00	-3802	3802	3802
141+00.00 EARTH							
Excavation	0.0	0	0	1.00		0	0
Fill	691.2	254	254	1.00	-4056	4056	4056
141+10.00 EARTH							
Excavation	0.0	0	0	1.00		0	0

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	Fill	713.2	260	260	1.00	-4316	4316	4316
141+20.00 EARTH								
	Excavation	0.0	0	0	1.00		0	0
	Fill	641.4	251	251	1.00	-4567	4567	4567
141+30.00 EARTH								
	Excavation	0.0	0	0	1.00		0	0
	Fill	543.3	219	219	1.00	-4786	4786	4786
141+40.00 EARTH								
	Excavation	0.0	0	0	1.00		0	0
	Fill	527.5	198	198	1.00	-4984	4984	4984
141+50.00 EARTH								
	Excavation	0.0	0	0	1.00		0	0
	Fill	522.9	195	195	1.00	-5179	5179	5179
141+60.00 EARTH								
	Excavation	0.0	0	0	1.00		0	0
	Fill	535.6	196	196	1.00	-5375	5375	5375
141+70.00 EARTH								
	Excavation	0.0	0	0	1.00		0	0
	Fill	531.1	198	198	1.00	-5573	5573	5573
141+80.00 EARTH								
	Excavation	0.0	0	0	1.00		0	0
	Fill	585.5	207	207	1.00	-5780	5780	5780

GRADING REPORT

COMPUTED BY: TYRIQUE MCSHAND
 CHECKED BY: ERIC KIM, P.E.
 FEDERAL PROJECT NO: ER-STP-34(146)
 ROUTE NO. OR STREET: SR-34 (US 421)

SHEET **18** OF **24**
 STATE NO.: 46S034-F3-006
 PIN: 135866.64
 COUNTY: JOHNSON

141+90.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	525.8	206	206	1.00	-5986	5986	5986

142+00.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	582.1	205	205	1.00	-6191	6191	6191

142+10.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	596.8	218	218	1.00	-6409	6409	6409

142+20.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	518.0	206	206	1.00	-6615	6615	6615

142+30.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	542.4	196	196	1.00	-6811	6811	6811

142+40.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	546.9	202	202	1.00	-7013	7013	7013

142+50.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	544.7	202	202	1.00	-7215	7215	7215

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 FEDERAL PROJECT NO: ER-STP-34(146)
 ROUTE NO. OR STREET: SR-34 (US 421)

SHEET **19** OF **24**
 STATE NO.: 46S034-F3-006
 PIN: 135866.64
 COUNTY: JOHNSON

142+60.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	551.1	203	203	1.00	-7418	7418	7418

142+70.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	624.3	218	218	1.00	-7636	7636	7636

142+80.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	680.4	242	242	1.00	-7878	7878	7878

142+90.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	658.1	248	248	1.00	-8126	8126	8126

143+00.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	661.5	244	244	1.00	-8370	8370	8370

143+10.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	659.6	245	245	1.00	-8615	8615	8615

143+20.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	762.6	263	263	1.00	-8878	8878	8878

143+30.00 EARTH

GRADING REPORT

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 FEDERAL PROJECT NO: ER-STP-34(146)
 ROUTE NO. OR STREET: SR-34 (US 421)

SHEET **20** OF **24**
 STATE NO.: 46S034-F3-006
 PIN: 135866.64
 COUNTY: JOHNSON

Excavation	0.0	0	0	1.00		0	0
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Fill	612.0	255	255	1.00	-9133	9133	9133
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143+40.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	582.9	221	221	1.00	-9354	9354	9354
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143+50.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	539.1	208	208	1.00	-9562	9562	9562
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143+60.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	538.0	199	199	1.00	-9761	9761	9761
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143+70.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	538.8	199	199	1.00	-9960	9960	9960
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143+80.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	538.9	200	200	1.00	-10160	10160	10160
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143+90.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	538.9	200	200	1.00	-10360	10360	10360
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144+00.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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 FEDERAL PROJECT NO: ER-STP-34(146)
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SHEET **21** OF **24**
 STATE NO.: 46S034-F3-006
 PIN: 135866.64
 COUNTY: JOHNSON

Fill	538.2	199	199	1.00	-10559	10559	10559
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144+10.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	538.7	199	199	1.00	-10758	10758	10758
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144+20.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	538.5	199	199	1.00	-10957	10957	10957
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144+30.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	568.1	205	205	1.00	-11162	11162	11162
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144+40.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	593.0	215	215	1.00	-11377	11377	11377
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144+50.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	634.6	227	227	1.00	-11604	11604	11604
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144+60.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	672.3	242	242	1.00	-11846	11846	11846
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144+70.00 EARTH

Excavation	0.0	0	0	1.00		0	0
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Fill	739.7	261	261	1.00	-12107	12107	12107
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 ROUTE NO. OR STREET: SR-34 (US 421)

SHEET **22** OF **24**
 STATE NO.: 46S034-F3-006
 PIN: 135866.64
 COUNTY: JOHNSON

144+80.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	756.3	277	277	1.00	-12384	12384	12384

144+90.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	749.2	279	279	1.00	-12663	12663	12663

145+00.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	720.4	272	272	1.00	-12935	12935	12935

145+10.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	625.6	249	249	1.00	-13184	13184	13184

145+20.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	336.4	178	178	1.00	-13362	13362	13362

145+30.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	105.7	82	82	1.00	-13444	13444	13444

145+40.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	63.7	31	31	1.00	-13475	13475	13475

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SHEET **23** OF **24**
STATE NO.: 46S034-F3-006
PIN: 135866.64
COUNTY: JOHNSON

145+50.00 EARTH

Excavation	0.0	0	0	1.00		0	0
Fill	0.0	12	12	1.00	-13487	13487	13487

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ROUTE NO. OR STREET: SR-34 (US 421)

SHEET **24** OF **24**
STATE NO.: 46S034-F3-006
PIN: 135866.64
COUNTY: JOHNSON

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	0	0	1.00
Fill	13487	13487	1.00