GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

S.R. 22
(Mainline)

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.)
SKIP STATION RANGE = 104+50.00 to 104+69.99								
104+70.00	EARTH							
	Common Exc	1	0	0	0.85		0	0
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
105+00.00	EARTH							
	Common Exc	1	1	1	0.85		1	1
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	3	2	2	1.00	-1	2	2
	TOPSOIL							
	Common Exc	0	0	0	1.00		0	0
	Subgrade Exc	0	0	0	1.00		0	0
	Subsoil Exc	2	1	1	1.00		1	1
	Fill	0	0	0	1.00	-1	0	0
	Mass ordinate for TOPSOIL = 1							

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STATE NO.: 09006-3219-94
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105+25.00 EARTH

Common Exc	1	1	1	0.85		2	2
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	4	4	1.00	-4	6	6

TOPSOIL

Common Exc	0	0	0	1.00		0	0
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	5	3	3	1.00		4	4
Fill	0	0	0	1.00	-4	0	0

Mass ordinate for TOPSOIL = 4

105+33.48 EARTH

Common Exc	17	3	3	0.85		5	5
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	5	2	2	1.00	-4	8	8

TOPSOIL

Common Exc	3	1	1	1.00		1	1
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	5	2	2	1.00		6	6
Fill	0	0	0	1.00	-4	0	0

Mass ordinate for TOPSOIL = 12

GRADING REPORT

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

105+50.00 EARTH

Common Exc	18	6	4	0.85		11	9
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	10	5	5	1.00	-4	13	13

TOPSOIL

Common Exc	5	1	1	1.00		2	2
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	4	4	1.00		10	10
Fill	0	0	0	1.00	-4	0	0

Mass ordinate for TOPSOIL = 12

105+88.38 EARTH

Common Exc	23	29	25	0.85		40	34
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	52	44	44	1.00	-23	57	57

TOPSOIL

Common Exc	9	10	10	1.00		12	12
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	17	18	18	1.00		28	28
Fill	0	0	0	1.00	-23	0	0

Mass ordinate for TOPSOIL = 40

GRADING REPORT

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

106+00.00 EARTH

Common Exc	21	9	8	0.85		49	42
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	53	23	23	1.00	-38	80	80
TOPSOIL							
Common Exc	8	4	4	1.00		16	16
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	17	7	7	1.00		35	35
Fill	0	0	0	1.00	-38	0	0

Mass ordinate for TOPSOIL = 51

106+50.00 EARTH

Common Exc	18	36	31	0.85		85	73
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	44	90	90	1.00	-97	170	170
TOPSOIL							
Common Exc	7	14	14	1.00		30	30
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	13	28	28	1.00		63	63
Fill	0	0	0	1.00	-97	0	0

Mass ordinate for TOPSOIL = 93

GRADING REPORT

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

107+00.00 EARTH

Common Exc	17	32	28	0.85		117	101
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	28	67	67	1.00	-136	237	237
TOPSOIL							
Common Exc	6	12	12	1.00		42	42
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	21	21	1.00		84	84
Fill	0	0	0	1.00	-136	0	0

Mass ordinate for TOPSOIL = 126

107+43.75 EARTH

Common Exc	15	26	22	0.85		143	123
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	25	25	1.00	-139	262	262
TOPSOIL							
Common Exc	3	7	7	1.00		49	49
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	3	11	11	1.00		95	95
Fill	0	0	0	1.00	-139	0	0

Mass ordinate for TOPSOIL = 144

GRADING REPORT

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SHEET **6** OF **62**
STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

107+50.00 EARTH

Common Exc	15	3	3	0.85		146	126
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	1	1	1.00	-137	263	263
TOPSOIL							
Common Exc	3	1	1	1.00		50	50
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	3	1	1	1.00		96	96
Fill	0	0	0	1.00	-137	0	0

Mass ordinate for TOPSOIL = 146

107+73.82 EARTH

Common Exc	16	14	12	0.85		160	138
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	4	3	3	1.00	-128	266	266
TOPSOIL							
Common Exc	2	2	2	1.00		52	52
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	3	3	3	1.00		99	99
Fill	0	0	0	1.00	-128	0	0

Mass ordinate for TOPSOIL = 151

GRADING REPORT

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

108+00.00 EARTH

Common Exc	1	8	7	0.85		168	145
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	2	2	1.00	-123	268	268

TOPSOIL

Common Exc	0	1	1	1.00		53	53
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	1	1	1.00		100	100
Fill	0	0	0	1.00	-123	0	0

Mass ordinate for TOPSOIL = 153

108+40.00 EARTH

Common Exc	1	1	1	0.85		169	146
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-122	268	268

SKIP STATION RANGE = 108+40.01 to 122+29.99

122+30.00 EARTH

Common Exc	1	0	0	0.85		169	146
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-122	268	268

GRADING REPORT

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
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122+50.00 EARTH

Common Exc	1	1	1	0.85		170	147
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	1	1	1.00	-122	269	269
TOPSOIL							
Common Exc	0	0	0	1.00		53	53
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	3	1	1	1.00		101	101
Fill	0	0	0	1.00	-122	0	0

Mass ordinate for TOPSOIL = 154

122+70.79 EARTH

Common Exc	19	8	7	0.85		178	154
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	2	2	1.00	-117	271	271
TOPSOIL							
Common Exc	3	1	1	1.00		54	54
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	2	2	1.00		103	103
Fill	0	0	0	1.00	-117	0	0

Mass ordinate for TOPSOIL = 157

GRADING REPORT

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COUNTY: Carroll

123+00.00 EARTH

Common Exc	20	21	18	0.85		199	172
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	1	1	1.00	-100	272	272

TOPSOIL

Common Exc	3	3	3	1.00		57	57
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	1	1	1.00		104	104
Fill	0	0	0	1.00	-100	0	0

Mass ordinate for TOPSOIL = 161

123+12.90 EARTH

Common Exc	20	10	8	0.85		209	180
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-92	272	272

TOPSOIL

Common Exc	3	1	1	1.00		58	58
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		104	104
Fill	0	0	0	1.00	-92	0	0

Mass ordinate for TOPSOIL = 162

GRADING REPORT

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

123+50.00 EARTH

Common Exc	20	27	23	0.85		236	203
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	19	13	13	1.00	-82	285	285
TOPSOIL							
Common Exc	4	5	5	1.00		63	63
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	12	8	8	1.00		112	112
Fill	0	0	0	1.00	-82	0	0

Mass ordinate for TOPSOIL = 175

124+00.00 EARTH

Common Exc	22	39	33	0.85		275	236
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	40	55	55	1.00	-104	340	340
TOPSOIL							
Common Exc	7	10	10	1.00		73	73
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	15	25	25	1.00		137	137
Fill	0	0	0	1.00	-104	0	0

Mass ordinate for TOPSOIL = 210

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STATE NO.: 09006-3219-94
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COUNTY: Carroll

124+50.00 EARTH

Common Exc	24	43	36	0.85		318	272
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	67	99	99	1.00	-167	439	439
TOPSOIL							
Common Exc	9	15	15	1.00		88	88
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	19	31	31	1.00		168	168
Fill	0	0	0	1.00	-167	0	0

Mass ordinate for TOPSOIL = 256

124+57.35 EARTH

Common Exc	23	6	5	0.85		324	277
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	71	19	19	1.00	-181	458	458
TOPSOIL							
Common Exc	8	2	2	1.00		90	90
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	20	5	5	1.00		173	173
Fill	0	0	0	1.00	-181	0	0

Mass ordinate for TOPSOIL = 263

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STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

124+94.44 EARTH

Common Exc	22	31	26	0.85		355	303
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	49	49	1.00	-204	507	507
TOPSOIL							
Common Exc	5	9	9	1.00		99	99
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	14	14	1.00		187	187
Fill	0	0	0	1.00	-204	0	0

Mass ordinate for TOPSOIL = 286

125+00.00 EARTH

Common Exc	20	4	4	0.85		359	307
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-200	507	507
TOPSOIL							
Common Exc	1	1	1	1.00		100	100
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		187	187
Fill	0	0	0	1.00	-200	0	0

Mass ordinate for TOPSOIL = 287

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SHEET **13** OF **62**
STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

125+30.00 EARTH

Common Exc	1	12	10	0.85		371	317
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-190	507	507
TOPSOIL							
Common Exc	0	1	1	1.00		101	101
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		187	187
Fill	0	0	0	1.00	-190	0	0

Mass ordinate for TOPSOIL = 288

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
EARTH			
Common Exc	371	317	0.85
Subgrade Exc	0	0	0.85
Subsoil Exc	0	0	1.00
Fill	507	507	1.00
TOPSOIL			
Common Exc	101	101	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	187	187	1.00
Fill	0	0	1.00



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STATE NO.: 09006-3219-94
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COUNTY: Carroll

S.R. 124 / Dr. Smith Lane
(Side Road)

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.)
SKIP STATION RANGE = 28+50.00 to 28+59.99								
28+99.99	EARTH							
	Common Exc	NA	75	64	0.85			
28+99.99	TOPSOIL							
	Common Exc	NA	7	7	1.00			
28+99.99	EARTH							
	Fill	NA	4	4	1.00	60		
28+99.99	TOPSOIL							
	Subsoil Exc	NA	3	3	1.00			
29+00.00	EARTH							
	Common Exc	57	0	0	0.85		75	64
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	5	0	0	1.00	60	4	4
	TOPSOIL							
	Common Exc	10	0	0	1.00		7	7
	Subgrade Exc	0	0	0	1.00		0	0
	Subsoil Exc	4	0	0	1.00		3	3
	Fill	0	0	0	1.00	60	0	0
	Mass ordinate for TOPSOIL = 10							

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29+27.18 EARTH

Common Exc	128	93	79	0.85		168	143
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	6	6	1.00	133	10	10

TOPSOIL

Common Exc	27	19	19	1.00		26	26
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	5	5	5	1.00		8	8
Fill	0	0	0	1.00	133	0	0

Mass ordinate for TOPSOIL = 34

29+48.77 EARTH

Common Exc	98	90	77	0.85		258	220
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	2	2	1.00	208	12	12

TOPSOIL

Common Exc	2	12	12	1.00		38	38
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	2	2	1.00		10	10
Fill	0	0	0	1.00	208	0	0

Mass ordinate for TOPSOIL = 48

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29+49.51 EARTH

Common Exc	235	5	4	0.85		263	224
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	212	12	12
TOPSOIL							
Common Exc	0	0	0	1.00		38	38
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		10	10
Fill	0	0	0	1.00	212	0	0

Mass ordinate for TOPSOIL = 48

SKIP STATION RANGE = 29+49.52 to 30+48.83

30+48.84 EARTH

Common Exc	233	0	0	0.85		263	224
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	212	12	12

30+49.47 EARTH

Common Exc	99	4	3	0.85		267	227
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	215	12	12

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STATE NO.: 09006-3219-94
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COUNTY: Carroll

30+50.00 EARTH

Common Exc	104	2	2	0.85		269	229
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	217	12	12

30+70.54 EARTH

Common Exc	145	95	81	0.85		364	310
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	1	0	0	1.00	298	12	12
TOPSOIL							
Common Exc	23	9	9	1.00		47	47
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	1	0	0	1.00		10	10
Fill	0	0	0	1.00	298	0	0

Mass ordinate for TOPSOIL = 57

31+00.00 EARTH

Common Exc	50	106	90	0.85		470	400
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	1	1	1.00	387	13	13
TOPSOIL							
Common Exc	15	21	21	1.00		68	68
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	1	1	1.00		11	11
Fill	0	0	0	1.00	387	0	0

Mass ordinate for TOPSOIL = 79

31+40.00 EARTH

Common Exc	24	55	47	0.85		525	447
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	434	13	13

TOPSOIL

Common Exc	3	13	13	1.00		81	81
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		11	11
Fill	0	0	0	1.00	434	0	0

Mass ordinate for TOPSOIL = 92

31+50.00 EARTH

Common Exc	23	9	7	0.85		534	454
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	441	13	13

TOPSOIL

Common Exc	3	1	1	1.00		82	82
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		11	11
Fill	0	0	0	1.00	441	0	0

Mass ordinate for TOPSOIL = 93

GRADING REPORT

COMPUTED BY: Ryan Lindsay — SHEET **20** OF **62**
CHECKED BY: Elizabeth David — STATE NO.: 09006-3219-94
FEDERAL PROJECT NO: HSIP-22(91) — PIN: 128893.00
ROUTE NO. OR STREET: S.R. 22 — COUNTY: Carroll

31+75.00 EARTH

Common Exc	18	19	16	0.85		553	470
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	457	13	13
TOPSOIL							
Common Exc	0	1	1	1.00		83	83
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		11	11
Fill	0	0	0	1.00	457	0	0

Mass ordinate for TOPSOIL = 94

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
EARTH			
Common Exc	553	470	0.85
Subgrade Exc	0	0	0.85
Subsoil Exc	0	0	1.00
Fill	13	13	1.00
TOPSOIL			
Common Exc	83	83	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	11	11	1.00
Fill	0	0	1.00



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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

SHEET **22** OF **62**
STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

Southbound J-Turn

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.)
SKIP STATION RANGE = 103+25.00 to 103+45.23								
103+45.24	EARTH							
	Common Exc	10	0	0	0.85		0	0
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	15	0	0	1.00	0	0	0
	TOPSOIL							
	Common Exc	6	0	0	1.00		0	0
	Subgrade Exc	0	0	0	1.00		0	0
	Subsoil Exc	14	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
	Mass ordinate for TOPSOIL = 0							

GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

103+50.00 EARTH

Common Exc	10	2	1	0.85		2	1
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	14	3	3	1.00	-2	3	3

TOPSOIL

Common Exc	6	1	1	1.00		1	1
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	14	2	2	1.00		2	2
Fill	0	0	0	1.00	-2	0	0

Mass ordinate for TOPSOIL = 3

104+00.00 EARTH

Common Exc	12	20	17	0.85		22	18
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	12	24	24	1.00	-9	27	27

TOPSOIL

Common Exc	11	16	16	1.00		17	17
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	21	21	1.00		23	23
Fill	0	0	0	1.00	-9	0	0

Mass ordinate for TOPSOIL = 40

GRADING REPORT

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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

104+50.00 EARTH

Common Exc	12	22	19	0.85		44	37
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	13	23	23	1.00	-13	50	50
TOPSOIL							
Common Exc	11	20	20	1.00		37	37
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	17	17	1.00		40	40
Fill	0	0	0	1.00	-13	0	0

Mass ordinate for TOPSOIL = 77

104+97.81 EARTH

Common Exc	13	22	19	0.85		66	56
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	11	21	21	1.00	-15	71	71
TOPSOIL							
Common Exc	12	20	20	1.00		57	57
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	8	15	15	1.00		55	55
Fill	0	0	0	1.00	-15	0	0

Mass ordinate for TOPSOIL = 112

GRADING REPORT

COMPUTED BY: Ryan Lindsay
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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

SHEET **25** OF **62**
STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

105+00.00 EARTH

Common Exc	13	1	1	0.85		67	57
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	11	1	1	1.00	-15	72	72

TOPSOIL

Common Exc	12	1	1	1.00		58	58
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	8	1	1	1.00		56	56
Fill	0	0	0	1.00	-15	0	0

Mass ordinate for TOPSOIL = 114

105+50.00 EARTH

Common Exc	13	24	20	0.85		91	77
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	9	19	19	1.00	-14	91	91

TOPSOIL

Common Exc	12	22	22	1.00		80	80
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	8	15	15	1.00		71	71
Fill	0	0	0	1.00	-14	0	0

Mass ordinate for TOPSOIL = 151

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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

106+00.00 EARTH

Common Exc	12	23	20	0.85		114	97
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	11	19	19	1.00	-13	110	110
TOPSOIL							
Common Exc	11	21	21	1.00		101	101
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	16	16	1.00		87	87
Fill	0	0	0	1.00	-13	0	0

Mass ordinate for TOPSOIL = 188

106+50.00 EARTH

Common Exc	11	21	18	0.85		135	115
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	14	23	23	1.00	-18	133	133
TOPSOIL							
Common Exc	10	19	19	1.00		120	120
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	17	17	1.00		104	104
Fill	0	0	0	1.00	-18	0	0

Mass ordinate for TOPSOIL = 224

GRADING REPORT

COMPUTED BY: Ryan Lindsay
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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

106+75.00 EARTH

Common Exc	11	10	9	0.85		145	124
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	16	14	14	1.00	-23	147	147

TOPSOIL

Common Exc	10	9	9	1.00		129	129
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	9	9	1.00		113	113
Fill	0	0	0	1.00	-23	0	0

Mass ordinate for TOPSOIL = 242

106+98.90 EARTH

Common Exc	12	10	9	0.85		155	133
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	18	15	15	1.00	-29	162	162

TOPSOIL

Common Exc	10	9	9	1.00		138	138
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	9	9	1.00		122	122
Fill	0	0	0	1.00	-29	0	0

Mass ordinate for TOPSOIL = 260

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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

107+00.00 EARTH

Common Exc	12	0	0	0.85		155	133
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	18	1	1	1.00	-30	163	163

TOPSOIL

Common Exc	10	0	0	1.00		138	138
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	0	0	1.00		122	122
Fill	0	0	0	1.00	-30	0	0

Mass ordinate for TOPSOIL = 260

107+32.58 EARTH

Common Exc	21	20	17	0.85		175	150
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	21	24	24	1.00	-37	187	187

TOPSOIL

Common Exc	9	11	11	1.00		149	149
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	13	13	1.00		135	135
Fill	0	0	0	1.00	-37	0	0

Mass ordinate for TOPSOIL = 284

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ROUTE NO. OR STREET: S.R. 22

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PIN: 128893.00
COUNTY: Carroll

107+50.00 EARTH

Common Exc	22	14	12	0.85		189	162
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	24	15	15	1.00	-40	202	202

TOPSOIL

Common Exc	9	6	6	1.00		155	155
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	7	7	1.00		142	142
Fill	0	0	0	1.00	-40	0	0

Mass ordinate for TOPSOIL = 297

107+60.89 EARTH

Common Exc	21	9	7	0.85		198	169
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	27	10	10	1.00	-43	212	212

TOPSOIL

Common Exc	9	4	4	1.00		159	159
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	12	5	5	1.00		147	147
Fill	0	0	0	1.00	-43	0	0

Mass ordinate for TOPSOIL = 306

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

108+00.00 EARTH

Common Exc	20	30	25	0.85		228	194
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	96	89	89	1.00	-107	301	301
TOPSOIL							
Common Exc	8	12	12	1.00		171	171
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	26	28	28	1.00		175	175
Fill	0	0	0	1.00	-107	0	0

Mass ordinate for TOPSOIL = 346

108+11.33 EARTH

Common Exc	126	31	26	0.85		259	220
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	20	20	1.00	-101	321	321
TOPSOIL							
Common Exc	0	2	2	1.00		173	173
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	5	5	1.00		180	180
Fill	0	0	0	1.00	-101	0	0

Mass ordinate for TOPSOIL = 353

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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

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
EARTH			
Common Exc	259	220	0.85
Subgrade Exc	0	0	0.85
Subsoil Exc	0	0	1.00
Fill	321	321	1.00
TOPSOIL			
Common Exc	173	173	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	180	180	1.00
Fill	0	0	1.00



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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

Northbound Intersection

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.)
SKIP STATION RANGE = 112+50.00 to 112+60.64								
112+60.65 EARTH								
	Common Exc	7	0	0	0.85		0	0
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
113+00.00 EARTH								
	Common Exc	13	15	12	0.85		15	12
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	11	8	8	1.00	4	8	8
	TOPSOIL							
	Common Exc	10	7	7	1.00		7	7
	Subgrade Exc	0	0	0	1.00		0	0
	Subsoil Exc	10	7	7	1.00		7	7
	Fill	0	0	0	1.00	4	0	0
	Mass ordinate for TOPSOIL = 14							

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ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

113+50.00 EARTH

Common Exc	17	28	24	0.85		43	36
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	9	19	19	1.00	9	27	27

TOPSOIL

Common Exc	12	20	20	1.00		27	27
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	8	17	17	1.00		24	24
Fill	0	0	0	1.00	9	0	0

Mass ordinate for TOPSOIL = 51

114+00.00 EARTH

Common Exc	24	38	32	0.85		81	68
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	6	14	14	1.00	27	41	41

TOPSOIL

Common Exc	13	23	23	1.00		50	50
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	6	13	13	1.00		37	37
Fill	0	0	0	1.00	27	0	0

Mass ordinate for TOPSOIL = 87

GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

114+10.58 EARTH

Common Exc	25	10	8	0.85		91	76
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	7	3	3	1.00	32	44	44

TOPSOIL

Common Exc	12	5	5	1.00		55	55
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	6	2	2	1.00		39	39
Fill	0	0	0	1.00	32	0	0

Mass ordinate for TOPSOIL = 94

114+50.00 EARTH

Common Exc	26	37	32	0.85		128	108
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	10	12	12	1.00	52	56	56

TOPSOIL

Common Exc	9	15	15	1.00		70	70
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	7	9	9	1.00		48	48
Fill	0	0	0	1.00	52	0	0

Mass ordinate for TOPSOIL = 118

GRADING REPORT

COMPUTED BY: Ryan Lindsay
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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

115+00.00 EARTH

Common Exc	28	50	42	0.85		178	150
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	15	23	23	1.00	71	79	79

TOPSOIL

Common Exc	6	14	14	1.00		84	84
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	8	14	14	1.00		62	62
Fill	0	0	0	1.00	71	0	0

Mass ordinate for TOPSOIL = 146

115+50.00 EARTH

Common Exc	29	53	45	0.85		231	195
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	22	34	34	1.00	82	113	113

TOPSOIL

Common Exc	4	9	9	1.00		93	93
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	17	17	1.00		79	79
Fill	0	0	0	1.00	82	0	0

Mass ordinate for TOPSOIL = 172

GRADING REPORT

COMPUTED BY: Ryan Lindsay
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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

116+00.00 EARTH

Common Exc	26	51	43	0.85		282	238
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	27	45	45	1.00	80	158	158
TOPSOIL							
Common Exc	3	6	6	1.00		99	99
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	19	19	1.00		98	98
Fill	0	0	0	1.00	80	0	0

Mass ordinate for TOPSOIL = 197

116+10.59 EARTH

Common Exc	25	10	9	0.85		292	247
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	38	13	13	1.00	76	171	171
TOPSOIL							
Common Exc	1	1	1	1.00		100	100
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	12	5	5	1.00		103	103
Fill	0	0	0	1.00	76	0	0

Mass ordinate for TOPSOIL = 203

GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

116+12.69 EARTH

Common Exc	35	2	2	0.85		294	249
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	25	2	2	1.00	76	173	173

TOPSOIL

Common Exc	4	0	0	1.00		100	100
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	1	1	1.00		104	104
Fill	0	0	0	1.00	76	0	0

Mass ordinate for TOPSOIL = 204

116+35.00 EARTH

Common Exc	33	28	24	0.85		322	273
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	25	21	21	1.00	79	194	194

TOPSOIL

Common Exc	4	3	3	1.00		103	103
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	8	8	1.00		112	112
Fill	0	0	0	1.00	79	0	0

Mass ordinate for TOPSOIL = 215

GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

116+50.00 EARTH

Common Exc	32	18	15	0.85		340	288
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	22	13	13	1.00	81	207	207

TOPSOIL

Common Exc	4	2	2	1.00		105	105
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	5	5	1.00		117	117
Fill	0	0	0	1.00	81	0	0

Mass ordinate for TOPSOIL = 222

116+85.00 EARTH

Common Exc	38	45	39	0.85		385	327
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	16	16	1.00	104	223	223

TOPSOIL

Common Exc	10	9	9	1.00		114	114
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	3	8	8	1.00		125	125
Fill	0	0	0	1.00	104	0	0

Mass ordinate for TOPSOIL = 239

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116+96.64 EARTH

Common Exc	41	17	14	0.85		402	341
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	1	1	1.00	117	224	224
TOPSOIL							
Common Exc	0	2	2	1.00		116	116
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	1	1	1.00		126	126
Fill	0	0	0	1.00	117	0	0

Mass ordinate for TOPSOIL = 242

117+00.00 EARTH

Common Exc	41	5	4	0.85		407	345
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	121	224	224

117+35.00 EARTH

Common Exc	23	41	35	0.85		448	380
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	156	224	224

117+43.98 EARTH

Common Exc	84	18	15	0.85		466	395
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	171	224	224

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SHEET **41** OF **62**
STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

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
EARTH			
Common Exc	466	395	0.85
Subgrade Exc	0	0	0.85
Subsoil Exc	0	0	1.00
Fill	224	224	1.00
TOPSOIL			
Common Exc	116	116	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	126	126	1.00
Fill	0	0	1.00



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STATE NO.: 09006-3219-94
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COUNTY: Carroll

Southbound Intersection

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.)
SKIP STATION RANGE = 122+00.00 to 122+29.32								
122+29.33	EARTH							
	Common Exc	7	0	0	0.85		0	0
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
122+50.00	EARTH							
	Common Exc	12	7	6	0.85		7	6
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	4	2	2	1.00	4	2	2
	TOPSOIL							
	Common Exc	5	2	2	1.00		2	2
	Subgrade Exc	0	0	0	1.00		0	0
	Subsoil Exc	3	1	1	1.00		1	1
	Fill	0	0	0	1.00	4	0	0
	Mass ordinate for TOPSOIL = 3							

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123+00.00 EARTH

Common Exc	16	26	22	0.85		33	28
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	8	11	11	1.00	15	13	13
TOPSOIL							
Common Exc	4	8	8	1.00		10	10
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	4	6	6	1.00		7	7
Fill	0	0	0	1.00	15	0	0

Mass ordinate for TOPSOIL = 17

123+50.00 EARTH

Common Exc	22	35	30	0.85		68	58
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	14	20	20	1.00	25	33	33
TOPSOIL							
Common Exc	3	6	6	1.00		16	16
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	5	8	8	1.00		15	15
Fill	0	0	0	1.00	25	0	0

Mass ordinate for TOPSOIL = 31

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123+79.33 EARTH

Common Exc	24	25	21	0.85		93	79
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	24	21	21	1.00	25	54	54

TOPSOIL

Common Exc	5	4	4	1.00		20	20
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	9	9	1.00		24	24
Fill	0	0	0	1.00	25	0	0

Mass ordinate for TOPSOIL = 44

124+00.00 EARTH

Common Exc	25	19	16	0.85		112	95
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	25	19	19	1.00	22	73	73

TOPSOIL

Common Exc	5	4	4	1.00		24	24
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	8	8	1.00		32	32
Fill	0	0	0	1.00	22	0	0

Mass ordinate for TOPSOIL = 56

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COUNTY: Carroll

124+50.00 EARTH

Common Exc	28	49	42	0.85		161	137
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	24	45	45	1.00	19	118	118
TOPSOIL							
Common Exc	5	9	9	1.00		33	33
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	19	19	1.00		51	51
Fill	0	0	0	1.00	19	0	0

Mass ordinate for TOPSOIL = 84

125+00.00 EARTH

Common Exc	28	52	44	0.85		213	181
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	24	44	44	1.00	19	162	162
TOPSOIL							
Common Exc	4	8	8	1.00		41	41
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	19	19	1.00		70	70
Fill	0	0	0	1.00	19	0	0

Mass ordinate for TOPSOIL = 111

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125+50.00 EARTH

Common Exc	27	51	43	0.85		264	224
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	29	49	49	1.00	13	211	211
TOPSOIL							
Common Exc	3	6	6	1.00		47	47
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	20	20	1.00		90	90
Fill	0	0	0	1.00	13	0	0

Mass ordinate for TOPSOIL = 137

125+79.32 EARTH

Common Exc	27	29	25	0.85		293	249
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	43	39	39	1.00	-1	250	250
TOPSOIL							
Common Exc	2	3	3	1.00		50	50
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	12	12	12	1.00		102	102
Fill	0	0	0	1.00	-1	0	0

Mass ordinate for TOPSOIL = 152

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125+81.38 EARTH

Common Exc	35	2	2	0.85		295	251
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	28	3	3	1.00	-2	253	253

TOPSOIL

Common Exc	5	0	0	1.00		50	50
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	1	1	1.00		103	103
Fill	0	0	0	1.00	-2	0	0

Mass ordinate for TOPSOIL = 153

125+90.00 EARTH

Common Exc	34	11	9	0.85		306	260
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	28	9	9	1.00	-2	262	262

TOPSOIL

Common Exc	4	1	1	1.00		51	51
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	3	3	1.00		106	106
Fill	0	0	0	1.00	-2	0	0

Mass ordinate for TOPSOIL = 157

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126+00.00 EARTH

Common Exc	34	13	11	0.85		319	271
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	29	11	11	1.00	-2	273	273

TOPSOIL

Common Exc	4	1	1	1.00		52	52
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	4	4	1.00		110	110
Fill	0	0	0	1.00	-2	0	0

Mass ordinate for TOPSOIL = 162

126+40.00 EARTH

Common Exc	33	50	42	0.85		369	313
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	35	47	47	1.00	-7	320	320

TOPSOIL

Common Exc	4	6	6	1.00		58	58
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	15	15	1.00		125	125
Fill	0	0	0	1.00	-7	0	0

Mass ordinate for TOPSOIL = 183

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126+50.00 EARTH

Common Exc	34	12	11	0.85		381	324
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	22	11	11	1.00	-7	331	331
TOPSOIL							
Common Exc	5	2	2	1.00		60	60
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	4	4	1.00		129	129
Fill	0	0	0	1.00	-7	0	0

Mass ordinate for TOPSOIL = 189

126+65.55 EARTH

Common Exc	16	14	12	0.85		395	336
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	2	7	7	1.00	-2	338	338
TOPSOIL							
Common Exc	11	5	5	1.00		65	65
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	2	3	3	1.00		132	132
Fill	0	0	0	1.00	-2	0	0

Mass ordinate for TOPSOIL = 197

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126+90.00 EARTH

Common Exc	34	23	19	0.85		418	355
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	1	1	1.00	16	339	339
TOPSOIL							
Common Exc	0	5	5	1.00		70	70
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	1	1	1.00		133	133
Fill	0	0	0	1.00	16	0	0

Mass ordinate for TOPSOIL = 203

127+00.00 EARTH

Common Exc	27	11	10	0.85		429	365
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	26	339	339

127+12.75 EARTH

Common Exc	85	26	22	0.85		455	387
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	48	339	339

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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
EARTH			
Common Exc	455	387	0.85
Subgrade Exc	0	0	0.85
Subsoil Exc	0	0	1.00
Fill	339	339	1.00
TOPSOIL			
Common Exc	70	70	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	133	133	1.00
Fill	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
	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Factor
Station = 125+77.23					
EARTH					
Common Exc	291	247	291	247	0.85
Subgrade Exc	0	0	0	0	0.85
Subsoil Exc	0	0	0	0	1.00
Fill	247	247	247	247	1.00
TOPSOIL					
Common Exc	50	50	50	50	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	101	101	101	101	1.00
Fill	0	0	0	0	1.00
Station = 126+68.27					
EARTH					
Common Exc	398	338	107	91	0.85
Subgrade Exc	0	0	0	0	0.85
Subsoil Exc	0	0	0	0	1.00
Fill	338	338	91	91	1.00
TOPSOIL					
Common Exc	66	66	16	16	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	132	132	31	31	1.00
Fill	0	0	0	0	1.00



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Northbound J-Turn

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.)
SKIP STATION RANGE = 120+25.00 to 120+49.99								
120+50.00	EARTH							
	Common Exc	7	0	0	0.85		0	0
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	0	0	0	1.00	0	0	0
121+00.00	EARTH							
	Common Exc	12	18	15	0.85		18	15
	Subgrade Exc	0	0	0	0.85		0	0
	Subsoil Exc	0	0	0	1.00		0	0
	Fill	2	2	2	1.00	13	2	2
	TOPSOIL							
	Common Exc	5	5	5	1.00		5	5
	Subgrade Exc	0	0	0	1.00		0	0
	Subsoil Exc	2	2	2	1.00		2	2
	Fill	0	0	0	1.00	13	0	0
	Mass ordinate for TOPSOIL = 7							

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121+50.00 EARTH

Common Exc	10	20	17	0.85		38	32
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	10	11	11	1.00	19	13	13
TOPSOIL							
Common Exc	4	8	8	1.00		13	13
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	5	6	6	1.00		8	8
Fill	0	0	0	1.00	19	0	0

Mass ordinate for TOPSOIL = 21

122+00.00 EARTH

Common Exc	9	18	15	0.85		56	47
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	31	38	38	1.00	-4	51	51
TOPSOIL							
Common Exc	6	9	9	1.00		22	22
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	14	18	18	1.00		26	26
Fill	0	0	0	1.00	-4	0	0

Mass ordinate for TOPSOIL = 48

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122+50.00 EARTH

Common Exc	11	19	16	0.85		75	63
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	22	49	49	1.00	-37	100	100

TOPSOIL

Common Exc	10	15	15	1.00		37	37
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	23	23	1.00		49	49
Fill	0	0	0	1.00	-37	0	0

Mass ordinate for TOPSOIL = 86

123+00.00 EARTH

Common Exc	11	20	17	0.85		95	80
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	22	41	41	1.00	-61	141	141

TOPSOIL

Common Exc	9	18	18	1.00		55	55
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	20	20	1.00		69	69
Fill	0	0	0	1.00	-61	0	0

Mass ordinate for TOPSOIL = 124

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123+50.00 EARTH

Common Exc	13	22	19	0.85		117	99
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	20	39	39	1.00	-81	180	180

TOPSOIL

Common Exc	10	18	18	1.00		73	73
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	19	19	1.00		88	88
Fill	0	0	0	1.00	-81	0	0

Mass ordinate for TOPSOIL = 161

124+00.00 EARTH

Common Exc	12	23	20	0.85		140	119
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	19	36	36	1.00	-97	216	216

TOPSOIL

Common Exc	9	18	18	1.00		91	91
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	11	19	19	1.00		107	107
Fill	0	0	0	1.00	-97	0	0

Mass ordinate for TOPSOIL = 198

GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

124+28.28 EARTH

Common Exc	16	15	12	0.85		155	131
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	16	18	18	1.00	-103	234	234
TOPSOIL							
Common Exc	11	10	10	1.00		101	101
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	9	10	10	1.00		117	117
Fill	0	0	0	1.00	-103	0	0

Mass ordinate for TOPSOIL = 218

124+50.00 EARTH

Common Exc	23	16	13	0.85		171	144
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	16	13	13	1.00	-103	247	247
TOPSOIL							
Common Exc	11	9	9	1.00		110	110
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	8	8	1.00		125	125
Fill	0	0	0	1.00	-103	0	0

Mass ordinate for TOPSOIL = 235

GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

124+57.56 EARTH

Common Exc	23	6	5	0.85		177	149
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	17	5	5	1.00	-103	252	252
TOPSOIL							
Common Exc	11	3	3	1.00		113	113
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	10	3	3	1.00		128	128
Fill	0	0	0	1.00	-103	0	0

Mass ordinate for TOPSOIL = 241

125+00.00 EARTH

Common Exc	22	35	30	0.85		212	179
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	3	16	16	1.00	-89	268	268
TOPSOIL							
Common Exc	14	20	20	1.00		133	133
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	3	10	10	1.00		138	138
Fill	0	0	0	1.00	-89	0	0

Mass ordinate for TOPSOIL = 271

GRADING REPORT

COMPUTED BY: Ryan Lindsay
CHECKED BY: Elizabeth David
FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

125+07.61 EARTH

Common Exc	87	15	13	0.85		227	192
Subgrade Exc	0	0	0	0.85		0	0
Subsoil Exc	0	0	0	1.00		0	0
Fill	0	0	0	1.00	-76	268	268
TOPSOIL							
Common Exc	0	2	2	1.00		135	135
Subgrade Exc	0	0	0	1.00		0	0
Subsoil Exc	0	0	0	1.00		138	138
Fill	0	0	0	1.00	-76	0	0

Mass ordinate for TOPSOIL = 273

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
EARTH			
Common Exc	227	192	0.85
Subgrade Exc	0	0	0.85
Subsoil Exc	0	0	1.00
Fill	268	268	1.00
TOPSOIL			
Common Exc	135	135	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	138	138	1.00
Fill	0	0	1.00

GRADING REPORT

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FEDERAL PROJECT NO: HSIP-22(91)
ROUTE NO. OR STREET: S.R. 22

STATE NO.: 09006-3219-94
PIN: 128893.00
COUNTY: Carroll

B A L A N C E P O I N T S U M M A R Y

Material Name	Cumulative		Incremental		Mult
	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Factor
Station = 121+91.30					
EARTH					
Common Exc	52	44	52	44	0.85
Subgrade Exc	0	0	0	0	0.85
Subsoil Exc	0	0	0	0	1.00
Fill	44	44	44	44	1.00
TOPSOIL					
Common Exc	20	20	20	20	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	23	23	23	23	1.00
Fill	0	0	0	0	1.00