

# GRADING REPORT

COMPUTED BY: ALAN JOLLY P.E.  
CHECKED BY: DANIEL WALTON P.E.  
FEDERAL PROJECT NO:  
ROUTE NO. OR STREET: OLD LAWRENCEBURG HWY

SHEET 1 OF 19  
STATE NO.: 60444-3447-04  
PIN: 124540.00  
COUNTY: MAURY

LR2733 (OLD LAWRENCEBURG HWY)

Input File: ewkprj.inp

Output File: LBURG2733EW.log

1	1	1	
1	2	2	
1	3	3	Earthwork
1	4	4	
1	5	5	tolerance = 0.010000
1	6	6	
1	7	7	vertical search distance = 500.000000
1	8	8	
1	9	9	xs dgn = F:\36\36729\3672901\04_CAD\TRNS\MUlr2733XSECTIONS.dgn
1	10	10	
1	11	11	Proposed Finish Grade
1	12	12	soil type = Earth
1	13	13	roadway exc mult factor = 1.000000
1	14	14	subsoil exc mult factor = 1.000000
1	15	15	fill mult factor = 1.000000
1	16	16	type = line
1	17	17	lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
1	18	18	co = 2,6-8,18
1	19	19	
1	20	20	Existing Ground Line
1	21	21	soil type = Earth
1	22	22	roadway exc mult factor = 1.000000
1	23	23	subsoil exc mult factor = 1.000000

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SHEET 2 OF 19  
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1	24	24	fill mult factor = 1.000000
1	25	25	type = line
1	26	26	lvname = SURVEY - GROUND - Top of Ground
1	27	27	co = 0
1	28	28	
1	29	29	Existing Unsuitable Material
1	30	30	soil type = TOPSOIL
1	31	31	roadway exc mult factor = 1.000000
1	32	32	subsoil exc mult factor = 1.000000
1	33	33	fill mult factor = 1.000000
1	34	34	type = line
1	35	35	lvname = SURVEY - GROUND - Bottom of Topsoil Layer
1	36	36	co = 2
1	37	37	
1	38	38	Excavation Limit
1	39	39	type = line
1	40	40	lvname = DESIGN - EARTHWORK - Excavation Limit Lines
1	41	41	co = 0
1	42	42	
1	43	43	Skip Areas
1	44	44	from 11+40.00 R 1 to 12+90.00 R 1
1	45	45	
1	46	46	Write Earthwork Shapes
1	47	47	plot param
1	48	48	lv = 347
1	49	49	lvname = DESIGN - EARTHWORK - Shapes
1	50	50	co = 33
1	51	51	wt = 2
1	52	52	lc = 0

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SHEET 3 OF 19  
 STATE NO.: 60444-3447-04  
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1	53	53	Stratify Shape Color
1	54	54	
1	55	55	End Area Decimal Places = 1
1	56	56	
1	57	57	write column base ascii file = F:\36\36729\3672901\04_CAD\TRNS\Geofiles\CL LAWRENCEBURG
FINAL.txt			
1	58	58	
1	59	59	column 1 formula = abs( ["Earth", Common Exc, End Area] )
1	60	60	column 1 number of decimal place = 0
1	61	61	column 1 total length = 10
1	62	62	
1	63	63	column 2 formula = abs( ["Earth", Fill, End Area] )
1	64	64	column 2 number of decimal place = 0
1	65	65	column 2 total length = 10
1	66	66	
1	67	67	column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
1	68	68	column 3 number of decimal place = 0
1	69	69	column 3 total length = 10
1	70	70	
1	71	71	
1	72	72	Process Earthwork for Baseline = CL_LAWRENCE_HWY
1	73	73	job number = 35e
1	74	74	
1	75	75	beg sta = 6+50.00 R 1
1	76	76	end sta = 16+45.00 R 1
0	0	77	END_OF_FILE

COMPUTING EARTHWORKS FOR BASELINE = CL\_LAWRENCE\_HWY

COMPUTING EARTHWORKS FOR JOB = 35E

FORMING LIST OF XSCCELLS

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SHEET **4** OF **19**  
STATE NO.: 60444-3447-04  
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BEGINNING EARTHWORKS COMPUTATION

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SHEET 5 OF 19  
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Material Name	End Areas	Unadjusted	Adjusted	Mult	Mass
Station	Volumes	Volumes	Factor	Ordinate	
	(sq. ft.)	(cu. yd.)	(cu. yd.)		

## 7+00.00 EARTH

Common Exc	32.9	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	0.5	0	0	1.00	0

## TOPSOIL

Common Exc	11.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.5	0	0	1.00	
Fill	0.0	0	0	1.00	0

Mass ordinate for TOPSOIL = 0

## 7+50.00 EARTH

Common Exc	15.1	44	44	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	2.6	3	3	1.00	41

## TOPSOIL

Common Exc	4.6	14	14	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	2.6	3	3	1.00	
Fill	0.0	0	0	1.00	41

Mass ordinate for TOPSOIL = 17

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## 8+00.00 EARTH

Common Exc	4.5	18	18	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	22.3	23	23	1.00	36

## TOPSOIL

Common Exc	5.7	10	10	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	8.7	10	10	1.00	
Fill	0.0	0	0	1.00	36

Mass ordinate for TOPSOIL = 37

## 8+10.00 EARTH

Common Exc	3.1	1	1	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	26.1	9	9	1.00	28

## TOPSOIL

Common Exc	4.9	2	2	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	9.7	3	3	1.00	
Fill	0.0	0	0	1.00	28

Mass ordinate for TOPSOIL = 42

## 8+30.03 EARTH

Common Exc	2.3	2	2	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	32.4	22	22	1.00	8

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SHEET 7 OF 19  
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## TOPSOIL

Common Exc	3.6	3	3	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	11.0	8	8	1.00	
Fill	0.0	0	0	1.00	8

Mass ordinate for TOPSOIL = 53

## 8+50.00 EARTH

Common Exc	4.3	2	2	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	43.8	28	28	1.00	-18

## TOPSOIL

Common Exc	7.6	4	4	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.8	9	9	1.00	
Fill	0.0	0	0	1.00	-18

Mass ordinate for TOPSOIL = 66

## 9+00.00 EARTH

Common Exc	0.0	4	4	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	75.6	111	111	1.00	-125

## TOPSOIL

Common Exc	0.0	7	7	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	16.5	27	27	1.00	
Fill	0.0	0	0	1.00	-125

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Mass ordinate for TOPSOIL = 100

## 9+10.00 EARTH

Common Exc	13.3	2	2	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	71.6	27	27	1.00	-150

## TOPSOIL

Common Exc	6.8	1	1	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	14.3	6	6	1.00	
Fill	0.0	0	0	1.00	-150

Mass ordinate for TOPSOIL = 107

## 9+50.00 EARTH

Common Exc	0.0	10	10	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	82.2	114	114	1.00	-254

## TOPSOIL

Common Exc	0.0	5	5	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	16.0	22	22	1.00	
Fill	0.0	0	0	1.00	-254

Mass ordinate for TOPSOIL = 134

## 9+87.45 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	



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Subsoil Exc	0.0	0	0	1.00	
Fill	71.7	107	107	1.00	-361

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.5	20	20	1.00	
Fill	0.0	0	0	1.00	-361

Mass ordinate for TOPSOIL = 154

## 9+89.25 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	71.5	5	5	1.00	-366

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.5	1	1	1.00	
Fill	0.0	0	0	1.00	-366

Mass ordinate for TOPSOIL = 155

## 10+00.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	78.4	30	30	1.00	-396

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	

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SHEET 10 OF 19  
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Subsoil Exc	14.0	5	5	1.00	
Fill	0.0	0	0	1.00	-396

Mass ordinate for TOPSOIL = 160

## 10+50.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	85.4	152	152	1.00	-548

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.9	25	25	1.00	
Fill	0.0	0	0	1.00	-548

Mass ordinate for TOPSOIL = 185

## 10+70.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	90.7	65	65	1.00	-613

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.3	9	9	1.00	
Fill	0.0	0	0	1.00	-613

Mass ordinate for TOPSOIL = 194

## 10+83.37 EARTH

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SHEET 11 OF 19  
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Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	96.0	46	46	1.00	-659

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.2	6	6	1.00	
Fill	0.0	0	0	1.00	-659

Mass ordinate for TOPSOIL = 200

## 10+88.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	99.4	17	17	1.00	-676

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.6	2	2	1.00	
Fill	0.0	0	0	1.00	-676

Mass ordinate for TOPSOIL = 202

## 11+00.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	100.8	44	44	1.00	-720

## TOPSOIL

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SHEET 12 OF 19  
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Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	11.9	5	5	1.00	
Fill	0.0	0	0	1.00	-720
Mass ordinate for TOPSOIL = 207					

## 11+27.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	199.6	150	150	1.00	-870

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	36.2	24	24	1.00	
Fill	0.0	0	0	1.00	-870

Mass ordinate for TOPSOIL = 231

SKIP STATION RANGE = 11+40.00 to 12+90.00

## 13+00.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	117.9	135	135	1.00	-1005

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	14.6	22	22	1.00	
Fill	0.0	0	0	1.00	-1005

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Mass ordinate for TOPSOIL = 253

## 13+50.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	125.8	226	226	1.00	-1231

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	14.8	27	27	1.00	
Fill	0.0	0	0	1.00	-1231

Mass ordinate for TOPSOIL = 280

## 14+00.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	100.5	210	210	1.00	-1441

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	13.2	26	26	1.00	
Fill	0.0	0	0	1.00	-1441

Mass ordinate for TOPSOIL = 306

## 14+22.50 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	

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SHEET 14 OF 19  
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Subsoil Exc	0.0	0	0	1.00	
Fill	68.6	70	70	1.00	-1511

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	5	5	1.00	
Fill	0.0	0	0	1.00	-1511

Mass ordinate for TOPSOIL = 311

## 14+35.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	54.1	28	28	1.00	-1539

## 14+50.00 EARTH

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	52.4	30	30	1.00	-1569

## TOPSOIL

Common Exc	0.0	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	12.4	3	3	1.00	
Fill	0.0	0	0	1.00	-1569

Mass ordinate for TOPSOIL = 314

## 15+00.00 EARTH

Common Exc	3.7	3	3	1.00	
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Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	13.6	61	61	1.00	-1627

## TOPSOIL

Common Exc	1.7	2	2	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	10.6	21	21	1.00	
Fill	0.0	0	0	1.00	-1627

Mass ordinate for TOPSOIL = 337

## 15+50.00 EARTH

Common Exc	19.3	21	21	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	0.4	13	13	1.00	-1619

## TOPSOIL

Common Exc	6.6	8	8	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.4	10	10	1.00	
Fill	0.0	0	0	1.00	-1619

Mass ordinate for TOPSOIL = 355

## 15+85.00 EARTH

Common Exc	33.9	34	34	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	0.0	0	0	1.00	-1585

## TOPSOIL

Common Exc	0.0	4	4	1.00	
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SHEET **16** OF **19**  
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Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	0.0	0	0	1.00	-1585
Mass ordinate for TOPSOIL = 359					

## 16+00.00 EARTH

Common Exc	28.0	17	17	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	0.0	0	0	1.00	
Fill	3.5	1	1	1.00	-1569

## TOPSOIL

Common Exc	6.6	2	2	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	3.5	1	1	1.00	
Fill	0.0	0	0	1.00	-1569

Mass ordinate for TOPSOIL = 362



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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					
Common Exc		158	158	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		1727	1727	1.00	
TOPSOIL					
Common Exc		62	62	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		300	300	1.00	
Fill		0	0	1.00	

# GRADING REPORT

COMPUTED BY: ALAN JOLLY P.E.

CHECKED BY: DANIEL WALTON P.E.

FEDERAL PROJECT NO:

ROUTE NO. OR STREET:OLD LAWRENCEBURG HWY

SHEET 18 OF 19

STATE NO.: 60444-3447-04

PIN:124540.00

COUNTY: MAURY

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	
Material Name		Unadjusted	Adjusted	Unadjusted	Adjusted	Mult
		Volume	Volume	Volume	Volume	Factor
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	
-----						
EARTH						
Common Exc		158	158	0	0	1.00
Subgrade Exc		0	0	0	0	1.00
Subsoil Exc		0	0	0	0	1.00
Fill		1727	1727	0	0	1.00
TOPSOIL						
Common Exc		62	62	0	0	1.00
Subgrade Exc		0	0	0	0	1.00
Subsoil Exc		300	300	0	0	1.00
Fill		0	0	0	0	1.00

# GRADING REPORT

COMPUTED BY: ALAN JOLLY P.E.  
 CHECKED BY: DANIEL WALTON P.E.  
 FEDERAL PROJECT NO:  
 ROUTE NO. OR STREET:OLD LAWRENCEBURG HWY

SHEET **19** OF **19**  
 STATE NO.: 60444-3447-04  
 PIN:124540.00  
 COUNTY: MAURY

## 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	Adjusted	Unadjusted	Adjusted	
	Volumes	Volumes	Volumes	Volumes	
	(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)	

-----

Station = 8+36.17

### EARTH

Common Exc	66	66	66	66	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	66	66	66	66	1.00

### TOPSOIL

Common Exc	30	30	30	30	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	27	27	27	27	1.00
Fill	0	0	0	0	1.00