

# CALCULATIONS

## T-71 9" REINFORCED CONCRETE PAVEMENT

### U-388(12) RURAL

S.R. 44 NORTHBOUND & SOUTHBOUND	STA. 217 + 00	TO STA. 263 + 00	= 4600	× 48 + 9	= 24533 SQ. YDS.
ACCELERATION LANE	STA. 227 + 90	TO STA. 237 + 10	= 1/2 (25)(920)	+ 9	= 1278 SQ. YDS.
DECELERATION LANE	STA. 230 + 48.76	TO STA. 234 + 28.95	= 1/2 (280.19 + 380.19)(12)	+ 9	= 440 SQ. YDS.
RAMP A	STA. 0 + 63.65	TO STA. 8 + 22.70	= 759.05	× 16 + 9	= 1349 SQ. YDS.
RAMP B	STA. 0 + 70.90	TO STA. 7 + 25	= 654.10	× 16 + 9	= 1163 SQ. YDS.
<b>TOTAL</b>	<b>T-71 9" REINFORCED CONCRETE PAVEMENT U-388(12) RURAL</b>				<b>= 28763 SQ. YDS.</b>

### U-388(12) MUNICIPAL

S.R. 44 NORTHBOUND & SOUTHBOUND	STA. 281 + 50	TO STA. 296 + 00	= 1450	× 48 + 9	= 7733 SQ. YDS.
ACCELERATION LANE	STA. 297 + 00	TO STA. 309 + 00	= 1/2 (25)(1200)	+ 9	= 1667 SQ. YDS.
DECELERATION LANE	STA. 299 + 00	TO STA. 302 + 81	= 1/2 (281 + 381)(12)	+ 9	= 4411 SQ. YDS.
RAMP NO. 1	STA. 5 + 18.56	TO STA. 14 + 17.77	= 899.21	× 16 + 9	= 1599 SQ. YDS.
RAMP NO. 2	STA. 3 + 75	TO STA. 13 + 15.34	= 940.34	× 16 + 9	= 1672 SQ. YDS.
<b>TOTAL</b>	<b>T-71 9" REINFORCED CONCRETE PAVEMENT U-388(12) MUNICIPAL</b>				<b>= 13112 SQ. YDS.</b>

### UG-388(12) RURAL

S.R. 44 NORTHBOUND & SOUTHBOUND	STA. 263 + 00	TO STA. 272 + 19.93	= 919.93	× 48 + 9	= 4906 SQ. YDS.
<b>TOTAL</b>	<b>T-71 9" REINFORCED CONCRETE PAVEMENT UG-388(12) RURAL</b>				<b>= 4906 SQ. YDS.</b>

### UG-388(12) MUNICIPAL

S.R. 44 NORTHBOUND & SOUTHBOUND	STA. 272 + 19.93	TO STA. 281 + 50	= 930.07	× 48 + 9	= 4960 SQ. YDS.
S.R. 44 NORTHBOUND & SOUTHBOUND	STA. 296 + 00	TO STA. 305 + 47.27	= 947.27	× 48 + 9	= 5052 SQ. YDS.
<b>TOTAL</b>	<b>T-71 9" REINFORCED CONCRETE PAVEMENT UG-388(12) MUNICIPAL</b>				<b>= 10012 SQ. YDS.</b>

### FG-388(12)

S.R. 44 NORTHBOUND & SOUTHBOUND	STA. 305 + 47.27	TO STA. 309 + 89.33	= 442.06	× 48 + 9	= 2358 SQ. YDS.
RAMP E	STA. 33 + 00	TO STA. 46 + 79.63	= 1379.63	× 24 + 9	= 3679 SQ. YDS.
RAMP G	STA. 0 + 18.33	TO STA. 14 + 00	= 1381.67	× 24 + 9	= 3684 SQ. YDS.
<b>TOTAL</b>	<b>T-71 9" REINFORCED CONCRETE PAVEMENT FG-388(12)</b>				<b>= 9721 SQ. YDS.</b>

### F-388(12)

RAMP E	STA. 29 + 00	TO STA. 33 + 00	= 400	× 24 + 9	= 1067 SQ. YDS.
RAMP G	STA. 14 + 00	TO STA. 18 + 00	= 400	× 24 + 9	= 1067 SQ. YDS.
<b>TOTAL</b>	<b>T-71 9" REINFORCED CONCRETE PAVEMENT F-388(12)</b>				<b>= 2134 SQ. YDS.</b>

## I-7 13" REINFORCED CONCRETE APPROACH SLAB

### U-388(12) MUNICIPAL

LAK-44-0489 (WEST APPROACH SLAB)	= 156 SQ. YDS.	
LAK-44-0489 (EAST APPROACH SLAB)	= 145 SQ. YDS.	
LAK-44-0505 (WEST APPROACH SLAB)	= 90 SQ. YDS.	
LAK-44-0505 (EAST APPROACH SLAB)	= 78 SQ. YDS.	
<b>TOTAL</b>	<b>I-7 13" REINFORCED CONCRETE APPROACH SLAB U-388(12) MUNICIPAL</b>	<b>= 469 SQ. YDS.</b>

### FG-388(12)

LAK-44-0556R (NORTHBOUND)	= 134 SQ. YDS.	
LAK-44-0556L (SOUTHBOUND)	= 134 SQ. YDS.	
<b>TOTAL</b>	<b>I-7 13" REINFORCED CONCRETE APPROACH SLAB FG-388(12)</b>	<b>= 268 SQ. YDS.</b>

## B-21 WATERPROOFED AGGREGATE BASE COURSE

### U-388(12) RURAL

S.R. 44 NORTHBOUND	STA. 217 + 00	TO STA. 225 + 73	= 873	× 10 + 108	= 81 CU. YDS.
" " "	STA. 227 + 90	TO STA. 237 + 10	= 920	× 8 + 54	= 136 CU. YDS.
" " "	STA. 237 + 10	TO STA. 237 + 90	= 1/2 (80)(8 + 10)	+ 54	= 13 CU. YDS.
" " "	STA. 237 + 90	TO STA. 263 + 00	= 2510	× 10 + 108	= 232 CU. YDS.
" " "	STA. 217 + 00	TO STA. 263 + 00	= 4600	× 4 + 108	= 170 CU. YDS.
S.R. 44 SOUTHBOUND	STA. 217 + 00	TO STA. 225 + 28.95	= 828.95	× 10 + 108	= 77 CU. YDS.
" " "	STA. 230 + 48.76	TO STA. 233 + 28.95	= 290.19	× 8 + 54	= 42 CU. YDS.
" " "	STA. 233 + 28.95	TO STA. 234 + 28.95	= 1/2 (100)(8 + 10)	+ 54	= 17 CU. YDS.
" " "	STA. 234 + 28.95	TO STA. 263 + 00	= 2871.05	× 10 + 108	= 266 CU. YDS.
" " "	STA. 217 + 00	TO STA. 263 + 00	= 4600	× 4 + 108	= 170 CU. YDS.
RAMP A	STA. 0 + 63.65	TO STA. 8 + 22.70	= 759.05	× 6 + 54	= 84 CU. YDS.
RAMP B	STA. 0 + 70.90	TO STA. 7 + 25	= 654.10	× 6 + 54	= 72 CU. YDS.
<b>TOTAL</b>	<b>B-21 WATERPROOFED AGGREGATE BASE COURSE U-388(12) RURAL</b>				<b>= 1360 CU. YDS.</b>

### U-388(12) MUNICIPAL

S.R. 44 NORTHBOUND	STA. 281 + 50	TO STA. 294 + 30	= 1280	× 10 + 108	= 119 CU. YDS.
" " "	STA. 281 + 50	TO STA. 296 + 00	= 1450	× 4 + 108	= 54 CU. YDS.
S.R. 44 SOUTHBOUND	STA. 281 + 50	TO STA. 293 + 80.64	= 1230.64	× 10 + 108	= 114 CU. YDS.
" " "	STA. 281 + 50	TO STA. 296 + 00	= 1450	× 4 + 108	= 54 CU. YDS.
RAMP NO. 1	STA. 5 + 18.56	TO STA. 14 + 17.77	= 899.21	× 6 + 54	= 100 CU. YDS.
RAMP NO. 2	STA. 3 + 75	TO STA. 13 + 15.34	= 940.34	× 6 + 54	= 104 CU. YDS.
<b>TOTAL</b>	<b>B-21 WATERPROOFED AGGREGATE BASE COURSE U-388(12) MUNICIPAL</b>				<b>= 545 CU. YDS.</b>

### UG-388(12) RURAL

S.R. 44 NORTHBOUND	STA. 263 + 00	TO STA. 271 + 97	= 897	× 10 + 108	= 88 CU. YDS.
" " "	STA. 263 + 00	TO STA. 272 + 12	= 912	× 4 + 108	= 34 CU. YDS.
S.R. 44 SOUTHBOUND	STA. 263 + 00	TO STA. 272 + 48	= 948	× 10 + 108	= 88 CU. YDS.
" " "	STA. 263 + 00	TO STA. 272 + 32	= 932	× 4 + 108	= 35 CU. YDS.
<b>TOTAL</b>	<b>B-21 WATERPROOFED AGGREGATE BASE COURSE UG-388(12) RURAL</b>				<b>= 240 CU. YDS.</b>

### UG-388(12) MUNICIPAL

S.R. 44 NORTHBOUND	STA. 271 + 97	TO STA. 281 + 50	= 953	× 10 + 108	= 88 CU. YDS.
" " "	STA. 297 + 00	TO STA. 306 + 15	= 915	× 8 + 54	= 136 CU. YDS.
" " "	STA. 272 + 12	TO STA. 281 + 50	= 938	× 4 + 108	= 35 CU. YDS.
" " "	STA. 296 + 00	TO STA. 305 + 71	= 971	× 4 + 108	= 36 CU. YDS.
S.R. 44 SOUTHBOUND	STA. 272 + 48	TO STA. 281 + 50	= 902	× 10 + 108	= 84 CU. YDS.
" " "	STA. 299 + 00	TO STA. 301 + 81	= 281	× 8 + 54	= 42 CU. YDS.
" " "	STA. 301 + 81	TO STA. 302 + 81	= 1/2 (100)(8 + 10)	+ 54	= 17 CU. YDS.
" " "	STA. 302 + 81	TO STA. 304 + 98	= 217	× 10 + 108	= 20 CU. YDS.
" " "	STA. 272 + 32	TO STA. 281 + 50	= 918	× 4 + 108	= 34 CU. YDS.
" " "	STA. 296 + 00	TO STA. 305 + 32	= 932	× 4 + 108	= 35 CU. YDS.
<b>TOTAL</b>	<b>B-21 WATERPROOFED AGGREGATE COURSE UG-388(12) MUNICIPAL</b>				<b>= 527 CU. YDS.</b>

### FG-388(12)

S.R. 44 NORTHBOUND	STA. 306 + 15	TO STA. 307 + 00	= 85	× 8 + 54	= 13 CU. YDS.
" " "	STA. 307 + 00	TO STA. 308 + 13	= 1/2 (113)(8 + 10)	+ 54	= 19 CU. YDS.
" " "	STA. 308 + 13	TO STA. 310 + 13	= 200	× 10 + 108	= 19 CU. YDS.
" " "	STA. 305 + 71	TO STA. 310 + 13	= 442	× 4 + 108	= 16 CU. YDS.
S.R. 44 SOUTHBOUND	STA. 304 + 98	TO STA. 310 + 15	= 517	× 10 + 108	= 48 CU. YDS.
" " "	STA. 305 + 32	TO STA. 310 + 14	= 482	× 4 + 108	= 18 CU. YDS.
S.R. 44 NORTHBOUND & SOUTHBOUND	STA. 312 + 30.83	TO STA. 312 + 45	= 6.17	× 28 + 108	= 2 CU. YDS.
RAMP E	STA. 33 + 00	TO STA. 46 + 97.96	= 1397.96	× 14 + 108	= 181 CU. YDS.
RAMP G	STA. 0 + 00	TO STA. 14 + 00	= 1400	× 14 + 108	= 182 CU. YDS.
<b>TOTAL</b>	<b>B-21 WATERPROOFED AGGREGATE BASE COURSE FG-388(12)</b>				<b>= 498 CU. YDS.</b>

### F-388(12)

RAMP E	STA. 29 + 00	TO STA. 33 + 00	= 400	× 14 + 108	= 52 CU. YDS.
RAMP G	STA. 14 + 00	TO STA. 18 + 00	= 400	× 14 + 108	= 52 CU. YDS.
<b>TOTAL</b>	<b>B-21 WATERPROOFED AGGREGATE BASE COURSE F-388(12)</b>				<b>= 104 CU. YDS.</b>