

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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57

LAKE COUNTY
LAK. - 2 - 1.80

QUANTITY CALCULATIONS
BY K.N.M. DATE 2/2/73
CHKD. J.A.W. DATE 2/2/73
F. A. THOMAS & ASSOC. INC.

ITEM 202 PAVEMENT REMOVED

FOREST GROVE ROAD	STA: 0+28 TO STA: 1+92.27	16427 L.F. x 25 L.F. ÷ 9	=	456.3 SQ. YDS. ✓
	TURNOUT (RIGHT)	193.12 SQ. FT. ÷ 9	=	21.5
	TURNOUT (LEFT)	538.16 SQ. FT. ÷ 9	=	59.8
LAKELAND BOULEVARD (WEST)	STA: 1+50 TO STA: 2+21	(10 L.F. + 3 L.F.) ÷ 2 x 71 L.F. ÷ 9	=	51.3
LAKELAND BOULEVARD (EAST)	STA: 0+55 TO STA: 1+58	(14 L.F. + 2 L.F.) ÷ 2 x 103 L.F. ÷ 9	=	91.6
RAMP No. 8	TURNOUT (LEFT)	217.32 SQ. FT. ÷ 9	=	24.1
			TOTAL	= 705 SQ. YDS.

ITEM 202 CURB REMOVED

RAMP No. 8	STA: 18+07 TO STA: 18+55 (LEFT)		=	48 L.F.
			TOTAL	= 48 L.F.

ITEM 202 SIDEWALK REMOVED

FOREST GROVE ROAD	STA: 0+43 TO STA: 1+76	10 L.F. x 5 L.F.	=	50 SQ. FT.
		133 L.F. x 5 L.F.	=	665
RAMP No. 5	STA: 16+20 (LEFT)	53 L.F. x 5 L.F.	=	265
RAMP No. 8	STA: 18+92 (LEFT)	25 L.F. x 5 L.F.	=	125
			TOTAL	= 1,105 SQ. FT.

ITEM 202 TRAFFIC MEDIAN REMOVED

EAST 305 th. STREET	STA: 1+76 TO STA: 3+82	206 L.F. x 2 L.F. ÷ 9	=	45.8 SQ. YDS.
			TOTAL	= 46 SQ. YDS.

ITEM 203 SUBGRADE COMPACTION

FOREST GROVE ROAD	STA: 1+24.69 TO STA: 1+92.27	67.58 L.F. x 25 L.F. ÷ 9	=	187.7 SQ. YDS.
	STA: 1+24.69 (CUL-DE-SAC)	(3.1417 x 37.50 ² L.F. x (253° + 360°)) ÷ 9	=	345.0
	STA: 1+24.69 TO STA: 1+59	(13 L.F. + 25 L.F.) ÷ 2 x 34.31 L.F. ÷ 9	=	72.4
	STA: 1+59 TO STA: 1+67	1/2 (8 L.F. x 25 L.F.) ÷ 9	=	11.1
	STA: 1+59 TO STA: 1+92.27	(25.52 L.F. x 36.5 L.F. - 3.1417 x 36.5 ² L.F. x (69.20° + 360°)) ÷ 9	=	14.1
RAMP No. 5	STA: 11+00 TO STA: 14+00	(8 L.F. + 20.55 L.F.) ÷ 2 x 300 L.F. ÷ 9	=	475.8
	STA: 14+00 TO STA: 14+98	(20.55 L.F. + 16.50 L.F.) ÷ 2 x 98 L.F. ÷ 9	=	201.7
	STA: 14+98 TO STA: 15+45.04	47.04 L.F. x 16.50 L.F. ÷ 9	=	86.2
	TURNOUT (LEFT)	2047.70 SQ. FT. ÷ 9	=	227.5
	TRAFFIC ISLAND	362.00 SQ. FT. ÷ 9	=	40.2
RAMP No. 8	STA: 13+50 TO STA: 13+77	6 L.F. x 27 L.F. ÷ 9	=	18.0
	STA: 13+77 TO STA: 16+50	(6 L.F. + 23 L.F.) ÷ 2 x 273 L.F. ÷ 9	=	439.8
	STA: 16+50 TO STA: 18+23	23 L.F. x 173 L.F. ÷ 9	=	442.1
	TURNOUT (LEFT)	1843.90 SQ. FT. ÷ 9	=	204.9
LAKELAND BOULEVARD (WEST)	STA: 1+50 TO STA: 3+00	150 L.F. x 10 L.F. ÷ 9	=	166.7
	STA: 3+00 TO STA: 4+45	(6 L.F. + 10 L.F.) ÷ 2 x 145 L.F. ÷ 9	=	128.9
LAKELAND BOULEVARD (EAST)	STA: 0+55 TO STA: 2+00	(14 L.F. + 10 L.F.) ÷ 2 x 145 L.F. ÷ 9	=	193.3
	STA: 2+00 TO STA: 3+50	(10 L.F. + 6 L.F.) ÷ 2 x 150 L.F. ÷ 9	=	133.3
			TOTAL	= 3,389 SQ. YDS.

ITEM 301 3" BITUMINOUS AGGREGATE BASE

RAMP No. 5	STA: 11+00 TO STA: 11+34	(8 L.F. + 10 L.F.) ÷ 2 x 34 L.F. x 0.25 FT. ÷ 27	=	2.8 CU. YDS.
	STA: 11+34 TO STA: 14+00	8 L.F. x 266 L.F. x 0.25 FT. ÷ 27	=	19.7
	STA: 14+00 TO STA: 14+94	(8 L.F. + 2 L.F.) ÷ 2 x 94 L.F. x 0.25 FT. ÷ 27	=	4.4
RAMP No. 8	STA: 13+50 TO STA: 13+68	6 L.F. x 18 L.F. x 0.25 FT. ÷ 27	=	1.0
	STA: 13+68 TO STA: 18+19	3 L.F. x 451 L.F. x 0.25 FT. ÷ 27	=	12.5
			TOTAL	= 40 CU. YDS.

LAKELAND FREEWAY & E. 305th ST. INTERCHANGE