

INSTRUCTIONS

1. Determine Pavement Type:
 - a. Rigid (Portland Cement Concrete) => Use Rigid Design Pagea
 - b. Flexible (Asphalt Concrete) => Use Flexible Design Pages.

2. Input Required:
 - a. Traffic Group: See Supplemental Information Page for additional information; to be assigned based on location
 - b. Soil CBR: See Supplemental Information Page for additional information; to be assigned based on geotechnical study.

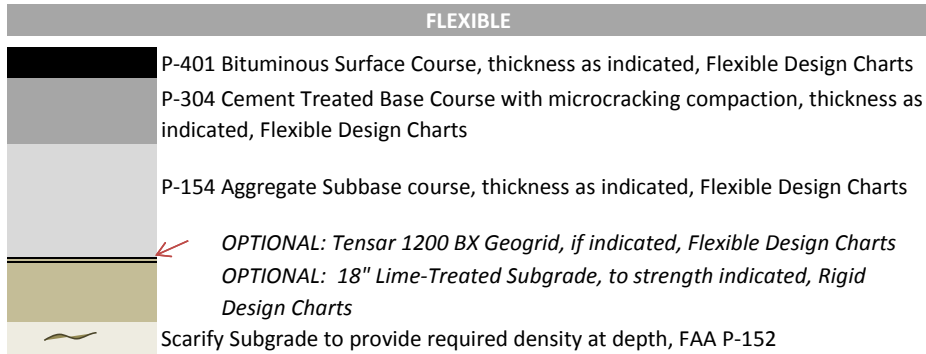
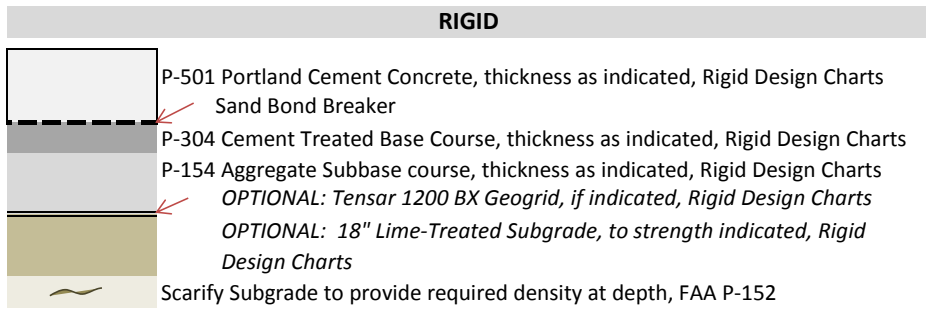
3. Determine required section:

Using appropriate figures and input parameters, follow diagrams, left to right, for required pavement layer thicknesses.

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

SUPPLEMENTAL INFORMATION

TYPICAL SECTIONS



TRAFFIC

Traffic to be used for design is based on location. See traffic map or select appropriate category:

Traffic Category naming convention:

- a) "NS" => LAX: Northside of the Airport; "SS" => LAX: Southside of the Airport
"ONT" => Ontario Airport; "VNY" => Van Nuys Airport
- b) "100" => Traffic similar to 100% of the runway traffic ; "50" => Traffic similar to 50% of runway traffic, etc.

See Table below for actual aircraft mix and forecast annual number of operations for each category

Abbreviations:	S	Single
	D	Dual
	DT	Dual Tandem
	DDT	Double Dual Tandem
	TT	Triple Tandem
	ST	Single Tandem
	COM	Combination

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

SUPPLEMENTAL INFORMATION

		LAX - DETAILED TRAFFIC BREAKDOWN							
Aircraft	Wt/Gear	Annual Operations - Southside				Annual Operations - Northside			
		SS 100	SS 50	SS 25	SS 10	NS 100	NS 50	NS 25	NS 10
B737	190D	14,796	7,398	3,699	1,480	76,665	38,333	19,166	7,667
A320	173D	12,470	6,235	3,117	1,247	29,762	14,881	7,441	2,976
A321	210D	1,219	609	305	122	3,027	1,514	757	303
MD-80	161D	4,654	2,327	1,164	465	6,629	3,315	1,657	663
B767	451DT	21,314	10,657	5,329	2,131	7,508	3,754	1,877	751
B757	271DT	23,735	11,867	5,934	2,373	6,947	3,473	1,737	695
A340	840COM	289	144	72	29	3,468	1,734	867	347
MD-11	633COM	5,595	2,797	1,399	559	532	266	133	53
B777	777TT	7,970	3,985	1,992	797	9,376	4,688	2,344	938
B747	978DDT	7,746	3,873	1,937	775	15,492	7,746	3,873	1,549
CRJ	81D	13,184	6,592	3,296	1,318	40,251	20,126	10,063	4,025
EMB-120	27D	7,096	3,548	1,774	710	7,096	3,548	1,774	710
A330	517DT	747	374	187	75	514	257	128	51
A380	1305A380	13	7	3	1	653	327	163	65
TOTALS:		120,827	60,414	30,207	12,083	207,921	103,961	51,980	20,792

SUPPLEMENTAL INFORMATION

ONT - DETAILED TRAFFIC BREAKDOWN					
Aircraft	Wt/Gear	Annual Operations - Ontario			
		ONT 100	ONT 50	ONT 25	ONT 10
A310	364D	42	21	10	4
A319	168D	3,585	1,793	896	359
A320	173D	6,092	3,046	1,523	609
A321	200	998	499	250	100
A330	380DT	1,266	633	317	127
A380	A380	74	37	18	7
B727	170D	42	21	11	4
B727-200	210D	98	49	25	10
B737-300	140D	4,876	2,438	1,219	488
737-700	155D	31,085	15,543	7,771	3,109
B737-800	175D	5,096	2,548	1,274	510
B737-900	188D	1,681	841	420	168
B747-200	836DDT	13	7	3	1
B747-400	913DDT	355	178	89	36
B747-8F	978DDT	414	207	104	41
B757-200	256DT	3,892	1,946	973	389
B757-800	271DT	11	6	3	1
B767-300	413DT	3,216	1,608	804	322
B777F	769TT	996	498	249	100
Globemaster 3	580COM	1	1	1	1
DC8	358DT	1	1	1	1
DC9	122D	2	1	1	1
DC10	443DT	396	198	99	40
MD11	633COM	2,432	1,216	608	243
MD80	161D	1,233	617	308	123
MD90	169D	1	1	1	1
P3C Orion	143D	58	29	15	6
B737-200	111D	4,157	2,079	1,039	416
BD700 Gl. Expr.	95D	581	291	145	58
CRJ-700	75D	3,893	1,947	973	389
F-15 Eagle	68S	11	6	3	1
ERJ-145	50D	443	222	111	44
Falcon 50	40D	667	334	167	67
BAe HS 125	30D	1,677	839	419	168
G150	26D	98	49	25	10
Learjet 40	20D	1,533	767	383	153
Super King	12.5S	3,137	1,569	784	314
Dornier Alpha Jet	7.5S	881	441	220	88
TOTALS:		2,801	1,401	700	280

ONT TRAFFIC

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

SUPPLEMENTAL INFORMATION

VNY TRAFFIC

VNY - DETAILED TRAFFIC BREAKDOWN					
Aircraft	Wt/Gear	Annual Operations - Van Nuys			
		VNY 100	VNY 50	VNY 25	VNY 10
<i>Boeing 727-200</i>	210D	123	62	31	12
<i>Boeing Business Jet (BBJ)</i>	171D	748	374	187	75
<i>Global Express (BD700)</i>	95D	6,986	3,493	1,747	699
<i>Gulfstream V</i>	89D	11,096	5,548	2,774	1,110
<i>Gulfstream IV</i>	72D	14,383	7,192	3,596	1,438
<i>Gulfstream GIII</i>	69D	2,055	1,027	514	205
<i>Gulfstream GII</i>	65D	2,055	1,027	514	205
<i>Dassault Falcon 900</i>	46D	2,055	1,027	514	205
<i>CL-600 Challenger</i>	42D	4,931	2,466	1,233	493
<i>Challenger 300 (BD100)</i>	38D	3,082	1,541	771	308
<i>Cessna Citation X (750)</i>	36D	14,383	7,192	3,596	1,438
<i>Cessna Sovereign CE (680)</i>	30D	2,466	1,233	616	247
<i>HS125-800</i>	25D	15,205	7,603	3,801	1,521
<i>Cessna Citation 550</i>	15D	20,547	10,274	5,137	2,055
<i>Raytheon 390 (Premier)</i>	12.5S	2,877	1,438	719	288
<i>Gates Learjet 60</i>	10D	20,547	10,274	5,137	2,055
<i>Eclipse EA500</i>	10D	2,466	1,233	616	247
<i>C130</i>	155TS	24	12	6	2
<i>urbo Prop 30K</i>	30A	6,321	3,160	1,580	632
<i>Piston 35K</i>	35S	3,160	1,580	790	316
<i>Piston 7K</i>	7S	30,024	15,012	7,506	3,002
<i>Piston 5K</i>	5S	124,836	62,418	31,209	12,484
<i>Turbo Prop 12.5K</i>	12.5S	25,283	12,642	6,321	2,528
<i>McDonnell-Douglas EA-3B</i>	82S	273	137	68	27
TOTALS:		290,370	145,185	72,593	29,037

SOIL CBR

- 1) Undertake project-level geotechnical investigation to determine nature of subgrade soils.
- 2) Provide soil borings and subgrade CBR testing at frequency recommended by FAA Advisory
- 3) Design CBR = average minus one standard deviation - round down to nearest whole value.

STANDARD PAVEMENT SECTIONS - LOS ANGELES WORLD AIRPORTS

LAX PAVEMENT REQUIREMENTS - RIGID							
AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
LAX NORTHSIDE	NS 10	CBR ≤ 3	→ 20" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 4 - 6	→ 20" P-501	+ 12" P-304			
		CBR 7 - 9	→ 19" P-501	+ 12" P-304			
		CBR 10 - 13	→ 18" P-501	+ 12" P-304			
		CBR 14 - 18	→ 17" P-501	+ 12" P-304			
		CBR ≥ 19	→ 16" P-501	+ 12" P-304			
	NS 25	CBR ≤ 5	→ 21" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 6 - 8	→ 20" P-501	+ 12" P-304			
		CBR 9 - 12	→ 19" P-501	+ 12" P-304			
		CBR 13 - 16	→ 18" P-501	+ 12" P-304			
		CBR 17 - 24	→ 17" P-501	+ 12" P-304			
		CBR ≥ 25	→ 16" P-501	+ 12" P-304			
	NS 50	CBR ≤ 3	→ 21" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 4 - 7	→ 21" P-501	+ 12" P-304			
		CBR 8 - 10	→ 20" P-501	+ 12" P-304			
		CBR 11 - 14	→ 19" P-501	+ 12" P-304			
		CBR 15 - 20	→ 18" P-501	+ 12" P-304			
		CBR ≥ 21	→ 17" P-501	+ 12" P-304			
	NS 100	CBR ≤ 5	→ 22" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 6 - 9	→ 21" P-501	+ 12" P-304			
		CBR 10 - 12	→ 20" P-501	+ 12" P-304			
		CBR 13 - 17	→ 19" P-501	+ 12" P-304			
		CBR 18 - 24	→ 18" P-501	+ 12" P-304			
		CBR ≥ 25	→ 17" P-501	+ 12" P-304			

NOTE: See Supplemental Information Page

STANDARD PAVEMENT SECTIONS - LOS ANGELES WORLD AIRPORTS

LAX PAVEMENT REQUIREMENTS - RIGID							
AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
LAX SOUTHSIDE	SS 10	CBR ≤ 5	→ 20" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 6 - 8	→ 19" P-501	+ 12" P-304			
		CBR 9 - 12	→ 18" P-501	+ 12" P-304			
		CBR 13 - 15	→ 17" P-501	+ 12" P-304			
		CBR 16 - 21	→ 16" P-501	+ 12" P-304			
		CBR ≥ 22	→ 15" P-501	+ 12" P-304			
	SS 25	CBR ≤ 4	→ 21" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 5 - 8	→ 20" P-501	+ 12" P-304			
		CBR 9 - 11	→ 19" P-501	+ 12" P-304			
		CBR 12 - 14	→ 18" P-501	+ 12" P-304			
		CBR 15 - 20	→ 17" P-501	+ 12" P-304			
		CBR ≥ 21	→ 16" P-501	+ 12" P-304			
	SS 50	CBR ≤ 3	→ 22" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 4 - 6	→ 21" P-501	+ 12" P-304			
		CBR 7 - 9	→ 20" P-501	+ 12" P-304			
		CBR 10 - 15	→ 19" P-501	+ 12" P-304			
		CBR 16 - 17	→ 18" P-501	+ 12" P-304			
		CBR ≥ 18	→ 17" P-501	+ 12" P-304			
	SS 100	CBR ≤ 4	→ 22" P-501	+ 12" P-304	+ 12" P-154 on Geogrid ¹	or 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 5 - 9	→ 21" P-501	+ 12" P-304			
		CBR 10 - 11	→ 20" P-501	+ 12" P-304			
		CBR 12 - 15	→ 19" P-501	+ 12" P-304			
		CBR 16 - 21	→ 18" P-501	+ 12" P-304			
		CBR ≥ 22	→ 17" P-501	+ 12" P-304			

NOTE: See Supplemental Information Page

LAX - RIGID AIRFIELD PAVEMENT

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

LAX PAVEMENT REQUIREMENTS - FLEXIBLE

AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
LAX NORTHSIDE	NS 10	CBR ≤ 4	→ 5" P-401	+ 12" P-304	+ 54" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 6 (E=9,000 psi)
		CBR 5 - 7	→ 5" P-401	+ 12" P-304	+ 48" P-154	or 36" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 6 (E=9,000 psi)
		CBR 8 - 10	→ 5" P-401	+ 12" P-304	+ 24" P-154		
		CBR 11 - 15	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR ≥ 16	→ 5" P-401	+ 6" P-304	+ 12" P-154		
	NS 25	CBR ≤ 4	→ 5" P-401	+ 12" P-304	+ 60" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 5 - 7	→ 5" P-401	+ 12" P-304	+ 48" P-154	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 8 - 11	→ 5" P-401	+ 12" P-304	+ 24" P-154		
		CBR 12 - 16	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR ≥ 17	→ 5" P-401	+ 6" P-304	+ 12" P-154		
	NS 50	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 66" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 6 - 9	→ 5" P-401	+ 12" P-304	+ 48" P-154	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 10 - 12	→ 5" P-401	+ 12" P-304	+ 18" P-154		
		CBR 13 - 18	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR ≥ 19	→ 5" P-401	+ 6" P-304	+ 12" P-154		
	NS 100	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 66" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ⁴ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 4) Lime: % as needed to reach CBR 8 (E=12,000 psi)
		CBR 6 - 9	→ 5" P-401	+ 12" P-304	+ 48" P-154	or 36" P-154 on 18" P-153 Lime Stab ⁴ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 4) Lime: % as needed to reach CBR 8 (E=12,000 psi)
		CBR 10 - 13	→ 5" P-401	+ 12" P-304	+ 18" P-154		
		CBR 14 - 19	→ 5" P-401	+ 6" P-304	+ 18" P-154		
		CBR ≥ 20	→ 5" P-401	+ 6" P-304	+ 12" P-154		

NOTE: See Supplemental Information Page

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

LAX PAVEMENT REQUIREMENTS - FLEXIBLE

AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
LAX SOUTHSIDE	SS 10	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 54" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 6 (E=9,000 psi)
		CBR 6 - 7	→ 5" P-401	+ 12" P-304	+ 36" P-154		
		CBR 8 - 10	→ 5" P-401	+ 12" P-304	+ 18" P-154		
		CBR 11 - 14	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR ≥ 15	→ 5" P-401	+ 6" P-304	+ 12" P-154		
	SS 25	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 60" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 6 - 8	→ 5" P-401	+ 12" P-304	+ 42" P-154	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 9 - 11	→ 5" P-401	+ 12" P-304	+ 18" P-154		
		CBR 12 - 15	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR > 16	→ 5" P-401	+ 6" P-304	+ 12" P-154		
	SS 50	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 60" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 6 - 8	→ 5" P-401	+ 12" P-304	+ 48" P-154	or 36" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 7 (E=10,500 psi)
		CBR 9 - 12	→ 5" P-401	+ 12" P-304	+ 24" P-154		
		CBR 13 - 16	→ 5" P-401	+ 6" P-304	+ 18" P-154		
		CBR > 17	→ 5" P-401	+ 6" P-304	+ 12" P-154		
	SS 100	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 66" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ⁴ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 4) Lime: % as needed to reach CBR 8 (E=12,000 psi)
		CBR 6 - 8	→ 5" P-401	+ 12" P-304	+ 48" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ⁴ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 4) Lime: % as needed to reach CBR 8 (E=12,000 psi)
		CBR 9 - 13	→ 5" P-401	+ 12" P-304	+ 24" P-154		
		CBR 14 - 18	→ 5" P-401	+ 6" P-304	+ 18" P-154		
		CBR > 19	→ 5" P-401	+ 6" P-304	+ 12" P-154		

NOTE: See Supplemental Information Page

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

LAX PAVEMENT REQUIREMENTS - SHOULDER

AREA	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
LAX SHOULDER	CBR ≤ 5	→ 3" P-401	+ 6" P-209	+ 24" P-154 on Geogrid ¹	or 14" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 6 (E=9,000 psi)
	CBR 6 - 7	→ 3" P-401	+ 6" P-209	+ 16" P-154		
	CBR 8 - 9	→ 3" P-401	+ 6" P-209	+ 12" P-154		
	CBR 10 - 11	→ 3" P-401	+ 6" P-209	+ 10" P-154		
	CBR 12 - 14	→ 3" P-401	+ 6" P-209	+ 8" P-154		
	CBR 15 - 18	→ 3" P-401	+ 6" P-209	+ 6" P-154		
	CBR ≥ 19	→ 3" P-401	+ 6" P-209	+ 4" P-154		

STANDARD PAVEMENT SECTIONS - LOS ANGELES WORLD AIRPORTS

ONT PAVEMENT REQUIREMENTS - RIGID							
AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
ONTARIO RIGID	ONT 10	CBR ≤ 5	→ 17" P-501	+ 12" P-304	+ 12" P-154		
		CBR 6 - 8	→ 16" P-501	+ 12" P-304	+ 12" P-154		
		CBR 9 - 13	→ 15" P-501	+ 12" P-304	+ 12" P-154		
		CBR 14 - 20	→ 14" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 21	→ 13" P-501	+ 12" P-304	+ 12" P-154		
	ONT 25	CBR ≤ 5	→ 18" P-501	+ 12" P-304	+ 12" P-154		
		CBR 6 - 8	→ 17" P-501	+ 12" P-304	+ 12" P-154		
		CBR 9 - 11	→ 16" P-501	+ 12" P-304	+ 12" P-154		
		CBR 12 - 18	→ 15" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 19	→ 14" P-501	+ 12" P-304	+ 12" P-154		
	ONT 50	CBR ≤ 3	→ 19" P-501	+ 12" P-304	+ 12" P-154		
		CBR 4 - 6	→ 18" P-501	+ 12" P-304	+ 12" P-154		
		CBR 7 - 9	→ 17" P-501	+ 12" P-304	+ 12" P-154		
		CBR 10 - 14	→ 16" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 15	→ 15" P-501	+ 12" P-304	+ 12" P-154		
	ONT 100	CBR ≤ 5	→ 19" P-501	+ 12" P-304	+ 12" P-154		
		CBR 6 - 8	→ 18" P-501	+ 12" P-304	+ 12" P-154		
		CBR 9 - 12	→ 17" P-501	+ 12" P-304	+ 12" P-154		
		CBR 13 - 18	→ 16" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 19	→ 15" P-501	+ 12" P-304	+ 12" P-154		

NOTE: See Supplemental Information Page

ONT - RIGID AIRFIELD PAVEMENT

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

ONT PAVEMENT REQUIREMENTS - FLEXIBLE

AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
ONTARIO FLEXIBLE	ONT 10	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 36" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ² SG	1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 5 (E=7,500 psi)
		CBR 6 - 8	→ 5" P-401	+ 12" P-304	+ 24" P-154		
		CBR 9 - 11	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR 12 -21	→ 5" P-401	+ 6" P-304	+ 12" P-154		
		CBR ≥ 22	→ 5" P-401	+ 4" P-304	+ 12" P-154		
	ONT 25	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 42" P-154 on Geogrid ¹	or 42" P-154 on 18" P-153 Lime Stab ² SG	1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 5 (E=7,500 psi)
		CBR 6 - 9	→ 5" P-401	+ 12" P-304	+ 30" P-154		
		CBR 10 - 12	→ 5" P-401	+ 6" P-304	+ 18" P-154		
		CBR 13 -25	→ 5" P-401	+ 6" P-304	+ 12" P-154		
		CBR ≥ 26	→ 5" P-401	+ 4" P-304	+ 12" P-154		
	ONT 50	CBR ≤ 5	→ 5" P-401	+ 12" P-304	+ 42" P-154 on Geogrid ¹	or 42" P-154 on 18" P-153 Lime Stab ² SG	1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 5 (E=7,500 psi)
		CBR 6 - 9	→ 5" P-401	+ 12" P-304	+ 36" P-154		
		CBR 10 - 14	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR 15 - 20	→ 5" P-401	+ 6" P-304	+ 12" P-154		
		CBR ≥ 21	→ 5" P-401	+ 4" P-304	+ 12" P-154		
	ONT 100	CBR ≤ 6	→ 5" P-401	+ 12" P-304	+ 36" P-154 on Geogrid ¹	or 36" P-154 on 18" P-153 Lime Stab ³ SG	1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 6 (E=9,000 psi)
		CBR 7 - 10	→ 5" P-401	+ 12" P-304	+ 30" P-154		
		CBR 11 - 14	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR 15 - 25	→ 5" P-401	+ 6" P-304	+ 12" P-154		
		CBR ≥ 26	→ 5" P-401	+ 4" P-304	+ 12" P-154		

NOTE: See Supplemental Information Page

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

ONT PAVEMENT REQUIREMENTS - SHOULDER

AREA	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
ONT SHOULDER	CBR ≤ 5	→ 3" P-401	+ 6" P-209	+ 20" P-154 on Geogrid ¹	or 15" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 5 (E=7,500 psi)
	CBR 6 - 7	→ 3" P-401	+ 6" P-209	+ 15" P-154		
	CBR 8 - 9	→ 3" P-401	+ 6" P-209	+ 11" P-154		
	CBR 10 - 11	→ 3" P-401	+ 6" P-209	+ 9" P-154		
	CBR 12 - 14	→ 3" P-401	+ 6" P-209	+ 7" P-154		
	CBR 15 - 16	→ 3" P-401	+ 6" P-209	+ 5" P-154		
	CBR ≥ 17	→ 3" P-401	+ 6" P-209	+ 4" P-154		

STANDARD PAVEMENT SECTIONS - LOS ANGELES WORLD AIRPORTS

VNY PAVEMENT REQUIREMENTS - RIGID

AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
VAN NUYS RIGID	VNY 10	CBR ≤ 5	→ 14" P-501	+ 12" P-304	+ 12" P-154		
		CBR 6 - 9	→ 13" P-501	+ 12" P-304	+ 12" P-154		
		CBR 10 - 13	→ 12" P-501	+ 12" P-304	+ 12" P-154		
		CBR 14 - 20	→ 11" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 21	→ 10" P-501	+ 12" P-304	+ 12" P-154		
	VNY 25	CBR ≤ 5	→ 15" P-501	+ 12" P-304	+ 12" P-154		
		CBR 6 - 9	→ 14" P-501	+ 12" P-304	+ 12" P-154		
		CBR 10 - 13	→ 13" P-501	+ 12" P-304	+ 12" P-154		
		CBR 14 - 21	→ 12" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 22	→ 11" P-501	+ 12" P-304	+ 12" P-154		
	VNY 50	CBR ≤ 3	→ 16" P-501	+ 12" P-304	+ 12" P-154		
		CBR 4 - 7	→ 15" P-501	+ 12" P-304	+ 12" P-154		
		CBR 8 - 12	→ 14" P-501	+ 12" P-304	+ 12" P-154		
		CBR 13 - 18	→ 13" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 19	→ 12" P-501	+ 12" P-304	+ 12" P-154		
	VNY 100	CBR ≤ 5	→ 16" P-501	+ 12" P-304	+ 12" P-154		
		CBR 6 - 10	→ 15" P-501	+ 12" P-304	+ 12" P-154		
		CBR 11 - 15	→ 14" P-501	+ 12" P-304	+ 12" P-154		
		CBR 16 - 26	→ 13" P-501	+ 12" P-304	+ 12" P-154		
		CBR ≥ 27	→ 12" P-501	+ 12" P-304	+ 12" P-154		

NOTE: See Supplemental Information Page

VNY - RIGID AIRFIELD PAVEMENT

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

VNY PAVEMENT REQUIREMENTS - FLEXIBLE

AREA	TRAFFIC	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
VAN NUYS FLEXIBLE	VNY 10	CBR ≤ 4	→ 5" P-401	+ 6" P-304	+ 24" P-154 on Geogrid ¹	or 24" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 5 - 8	→ 5" P-401	+ 6" P-304	+ 18" P-154		
		CBR 9 - 12	→ 5" P-401	+ 4" P-304	+ 12" P-154		
		CBR ≥ 13	→ 5" P-401	+ 4" P-304	+ 6" P-154		
	VNY 25	CBR ≤ 4	→ 5" P-401	+ 6" P-304	+ 30" P-154 on Geogrid ¹	or 30" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 5 - 7	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR 8 - 10	→ 5" P-401	+ 6" P-304	+ 12" P-154		
		CBR 11 - 14	→ 5" P-401	+ 4" P-304	+ 12" P-154		
		CBR ≥ 15	→ 5" P-401	+ 4" P-304	+ 6" P-154		
	VNY 50	CBR ≤ 4	→ 5" P-401	+ 6" P-304	+ 30" P-154 on Geogrid ¹	or 30" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 4 (E=6,000 psi)
		CBR 5 - 8	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR 9 - 12	→ 5" P-401	+ 6" P-304	+ 12" P-154		
		CBR 13 - 15	→ 5" P-401	+ 4" P-304	+ 12" P-154		
		CBR ≥ 16	→ 5" P-401	+ 4" P-304	+ 6" P-154		
	VNY 100	CBR ≤ 5	→ 5" P-401	+ 6" P-304	+ 30" P-154 on Geogrid ¹	or 30" P-154 on 18" P-153 Lime Stab ³ SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 3) Lime: % as needed to reach CBR 5 (E=7,500 psi)
		CBR 6 - 8	→ 5" P-401	+ 6" P-304	+ 24" P-154		
		CBR 9 - 13	→ 5" P-401	+ 6" P-304	+ 12" P-154		
		CBR 14 - 18	→ 5" P-401	+ 4" P-304	+ 12" P-154		
		CBR ≥ 19	→ 5" P-401	+ 4" P-304	+ 6" P-154		

STANDARD PAVEMENT SECTIONS LOS ANGELES WORLD AIRPORTS

VNY PAVEMENT REQUIREMENTS - SHOULDER						
AREA	SUBGRADE CBR	SURFACE REQMTS	BASE REQMTS	BASE/SB REQMTS	SB/SG REQMTS	NOTES
VNY SHOULDER	CBR \leq 5	→ 3" P-401	+ 8" P-209	+ 14" P-154 on Geogrid ¹	or 14" P-154 on 18" P-153 Lime Stab ² SG	→ 1) Geogrid: Tensar BX 1200 Geogrid or equivalent 2) Lime: % as needed to reach CBR 5 (E=7,500 psi)
	CBR 6	→ 3" P-401	+ 8" P-209	+ 12" P-154		
	CBR 7	→ 3" P-401	+ 8" P-209	+ 10" P-154		
	CBR 8	→ 3" P-401	+ 8" P-209	+ 8" P-154		
	CBR \geq 9	→ 3" P-401	+ 8" P-209	+ 6" P-154		