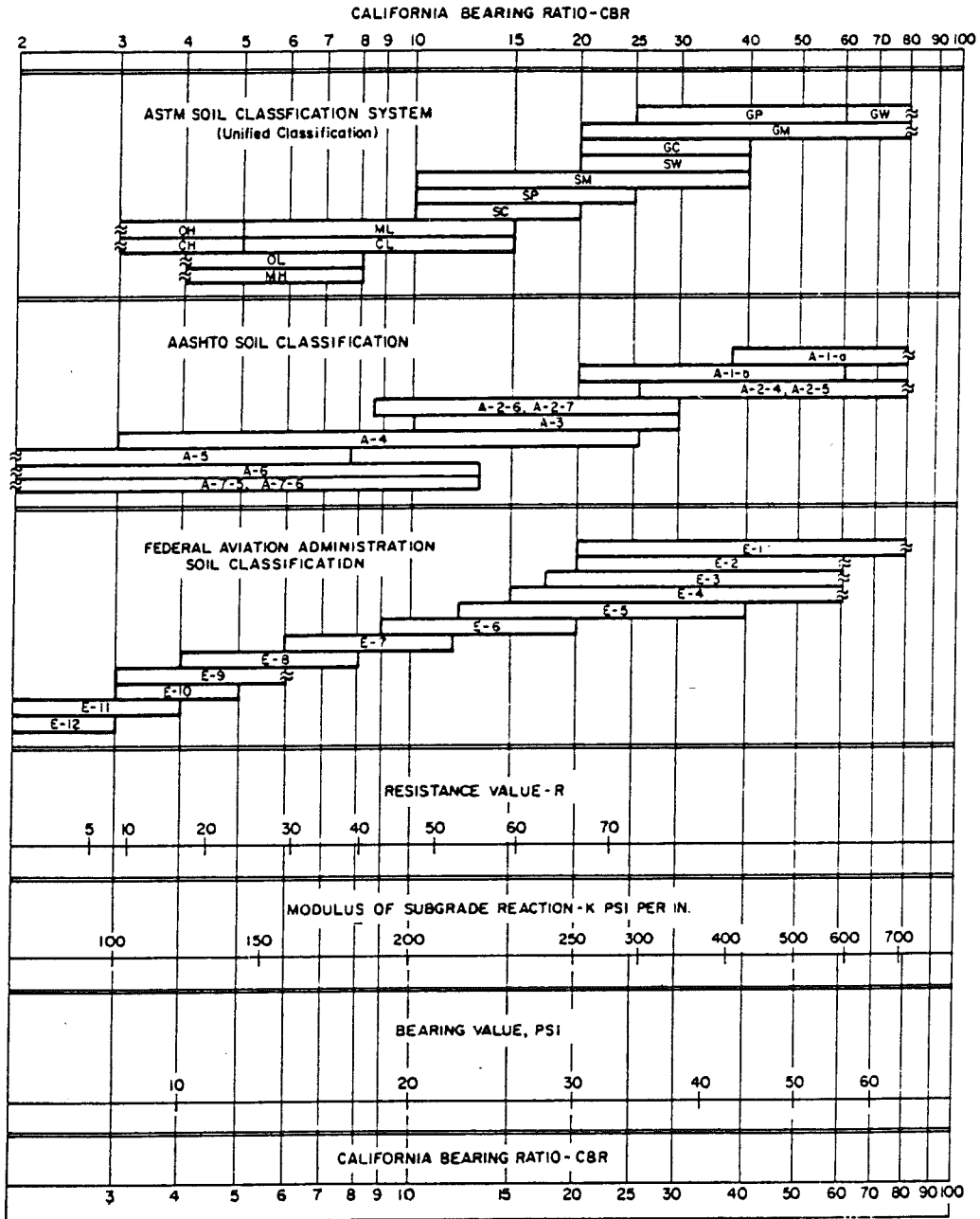


**PCA Modulus of Subgrade Reaction Relationships**



.PCA, 1966

**AASHTO Subbase and Concrete Slab Values****Table 2.7. Typical ranges of loss of support (LS) factors for various types of materials (6).**

Type of Material	Loss of Support (LS)
Cement Treated Granular Base (E = 1,000,000 to 2,000,000 psi)	0.0 to 1.0
Cement Aggregate Mixtures (E = 500,000 to 1,000,000 psi)	0.0 to 1.0
Asphalt Treated Base (E = 350,000 to 1,000,000 psi)	0.0 to 1.0
Bituminous Stabilized Mixtures (E = 40,000 to 300,000 psi)	0.0 to 1.0
Lime Stabilized (E = 20,000 to 70,000 psi)	1.0 to 3.0
Unbound Granular Materials (E = 15,000 to 45,000 psi)	1.0 to 3.0
Fine Grained or Natural Subgrade Materials (E = 3,000 to 40,000 psi)	2.0 to 3.0

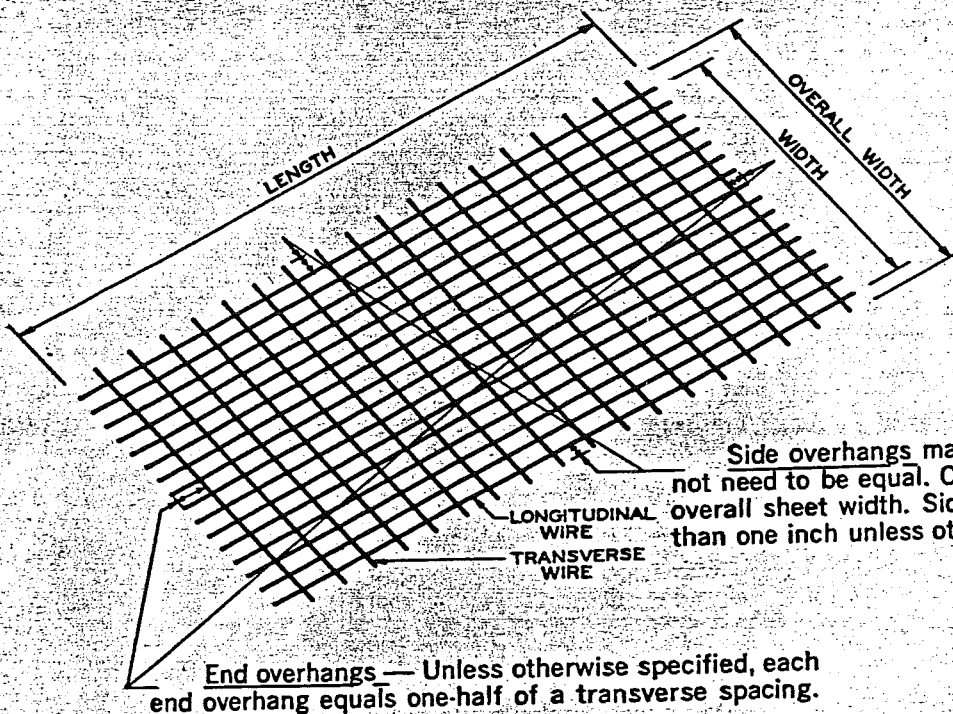
Note: E in this table refers to the general symbol for elastic or resilient modulus of the material.

**Table 2.6. Recommended load transfer coefficient for various pavement types and design conditions.**

Shoulder	Asphalt		Tied P.C.C.	
	Yes	No	Yes	No
Load Transfer Devices				
Pavement Type				
1. Plain Jointed and Jointed Reinforced	3.2	3.8 - 4.4	2.5 - 3.1	3.6 - 4.2
2. CRCP	2.9 - 3.2	N/A	2.3 - 2.9	N/A

AASHTO Pavement Design Manual, 1986

### Welded Wire Fabric



**Industry Method of Designating Style:**  
 Example — WWF 6x12—W16xW8

Longitudinal wire spacing . . . . 6"	Longitudinal wire size . . . . . W16
Transverse wire spacing . . . . 12"	Transverse wire size . . . . . W8

TABLE I — COMMON STOCK STYLES OF WELDED WIRE FABRIC

Style Designation	Steel Area sq. in. per ft.		Weight Approx. lbs. per 100 sq. ft.
	Longit.	Transv.	
<b>Rolls</b>			
6x6—W1.4xW1.4	.03	.03	21
6x6—W2xW2	.04	.04	29
6x6—W2.9xW2.9	.06	.06	42
6x6—W4xW4	.08	.08	58
4x4—W1.4xW1.4	.04	.04	31
4x4—W2xW2	.06	.06	43
4x4—W2.9xW2.9	.09	.09	62
4x4—W4xW4	.12	.12	86
<b>Sheets</b>			
6x6—W2.9xW2.9	.06	.06	42
6x6—W4xW4	.08	.08	58
6x6—W5.5xW5.5	.11	.11	80
4x4—W4xW4	.12	.12	86

.Wire Reinforcing Institute

TABLE III — SECTIONAL AREA AND WEIGHT OF WELDED WIRE FABRIC

Wire Size Number		Nominal Diameter Inches	Nominal Weight Lbs./Lin. Ft.	Area In Sq. In. Per Ft. Of Width For Various Spacings						
Smooth	Deformed			Center-To-Center Spacing						
				2"	3"	4"	6"	8"	10"	12"
W31	D31	.628	1.054		1.24	.93	.62	.465	.372	.31
W28	D28	.597	0.952		1.12	.84	.56	.42	.336	.28
W26	D26	.575	0.934		1.04	.78	.52	.39	.312	.26
W24	D24	.553	0.816		.96	.72	.48	.36	.288	.24
W22	D22	.529	0.748		.88	.66	.44	.33	.264	.22
W20	D20	.505	0.680	1.20	.80	.60	.40	.30	.24	.20
W18	D18	.479	0.612	1.08	.72	.54	.36	.27	.216	.18
W16	D16	.451	0.544	.96	.64	.48	.32	.24	.192	.16
W14	D14	.422	0.476	.84	.56	.42	.28	.21	.168	.14
W12	D12	.391	0.408	.72	.48	.36	.24	.18	.144	.12
W11	D11	.374	0.374	.66	.44	.33	.22	.165	.132	.11
W10	D10	.357	0.340	.60	.40	.30	.20	.15	.12	.10
W9.5		.348	0.323	.57	.38	.285	.19	.142	.114	.095
W9	D9	.339	0.306	.54	.36	.27	.18	.135	.108	.09
W8.5		.329	0.289	.51	.34	.255	.17	.127	.102	.085
W8	D8	.319	0.272	.48	.32	.24	.16	.12	.096	.08
W7.5		.309	0.255	.45	.30	.225	.15	.112	.09	.075
W7	D7	.299	0.238	.42	.28	.21	.14	.105	.084	.07
W6.5		.288	0.221	.39	.26	.195	.13	.097	.078	.065
W6	D6	.276	0.204	.36	.24	.18	.12	.09	.072	.06
W5.5		.265	0.187	.33	.22	.165	.11	.082	.066	.055
W5	D5	.252	0.170	.30	.20	.15	.10	.075	.06	.05
W4.5		.239	0.153	.27	.18	.135	.09	.067	.054	.045
W4	D4	.226	0.136	.24	.16	.12	.08	.06	.048	.04
W3.5		.211	0.119	.21	.14	.105	.07	.052	.042	.035
W2.9		.192	0.099	.174	.116	.087	.058	.043	.035	.029
W2.5		.178	0.085	.15	.10	.075	.05	.037	.03	.025
W2		.160	0.068	.12	.08	.06	.04	.03	.024	.02
W1.4		.134	0.048	.084	.056	.042	.028	.021	.017	.014