

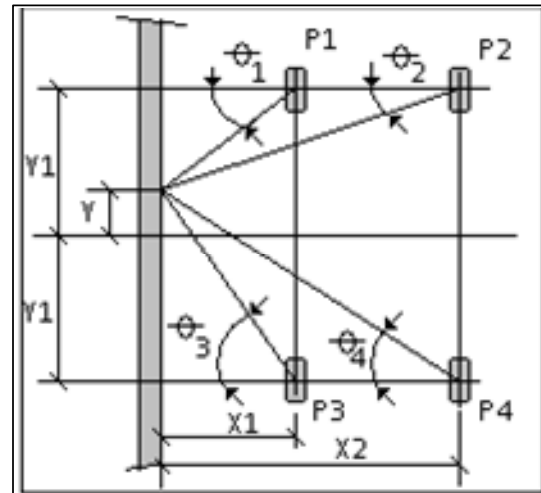
LATERAL VEHICLE PRESSURE: AT THE VEHICLE CL
LOADING: HS-20 TRUCK LOADING FROM AASHTO

REFERENCE: FOUNDATIONS AND EARTH STRUCTURES, DESIGN MANUAL 7.2.
DEPART. OF THE NAVY, NAVAL FACILITIES ENGR. COMMAND. MAY 1982,
FIGURE 11, PAGE 7.2-74

POINT LOAD, Qp1 = 16000 LB
 Qp2 = 16000 LB
 Qp3 = 16000 LB
 Qp4 = 16000 LB

DEPTH OF WALL, H = 7 FT

X1 = 1 FT THETA1 = 1.428899 RAD
X2 = 7 FT THETA2 = 0.785398 RAD
Y1 = 7 FT THETA3 = 1.428899 RAD
Y = 0 FT THETA4 = 0.785398 RAD
 M1 = M3 = 0.4
 M2 = M4 = 1



DEPTH Z (FT)	N	p1 (PSF)	p2 (PSF)	p3 (PSF)	p4 (PSF)	pT (PSF)
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.35	0.05	0.00	0.60	0.00	0.60	1.21
0.70	0.10	0.00	2.37	0.00	2.37	4.73
1.05	0.15	0.00	5.13	0.00	5.13	10.26
1.40	0.20	0.00	8.67	0.00	8.67	17.34
1.75	0.25	0.00	12.70	0.00	12.70	25.41
2.10	0.30	0.00	16.94	0.00	16.94	33.88
2.45	0.35	0.00	21.11	0.00	21.11	42.23
2.80	0.40	0.00	24.99	0.00	24.99	49.98
3.15	0.45	0.00	28.39	0.00	28.39	56.78
3.50	0.50	0.00	31.20	0.00	31.20	62.41
3.85	0.55	0.00	33.37	0.00	33.37	66.74
4.20	0.60	0.00	34.89	0.00	34.89	69.78
4.55	0.65	0.00	35.78	0.00	35.78	71.56
4.90	0.70	0.00	36.11	0.00	36.11	72.22
5.25	0.75	0.00	35.95	0.00	35.95	71.89
5.60	0.80	0.00	35.37	0.00	35.37	70.74
5.95	0.85	0.00	34.46	0.00	34.46	68.93
6.30	0.90	0.00	33.30	0.00	33.30	66.60
6.65	0.95	0.00	31.95	0.00	31.95	63.90
7.00	1.00	0.00	30.47	0.00	30.47	60.94

Max = 72.22 psf

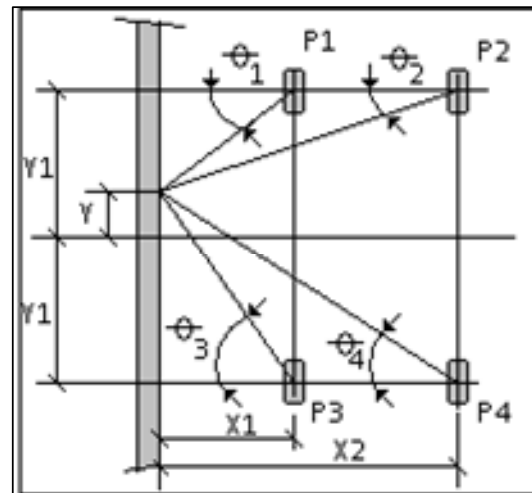
LATERAL VEHICLE PRESSURE: AT THE VEHICLE TIRE
LOADING: HS-20 TRUCK LOADING FROM AASHTO

REFERENCE: FOUNDATIONS AND EARTH STRUCTURES, DESIGN MANUAL 7.2.
DEPART. OF THE NAVY, NAVAL FACILITIES ENGR. COMMAND. MAY 1982,
FIGURE 11, PAGE 7.2-74

POINT LOAD, Qp1 = 16000 LB
 Qp2 = 16000 LB
 Qp3 = 16000 LB
 Qp4 = 16000 LB

DEPTH OF WALL, H = 7 FT

X1 = 1 FT THETA1 = 0 RAD
X2 = 7 FT THETA2 = 0 RAD
Y1 = 7 FT THETA3 = 1.499489 RAD
Y = 7 FT THETA4 = 1.107149 RAD
 M1 = M3 = 0.4
 M2 = M4 = 1



DEPTH Z (FT)	N	p1 (PSF)	p2 (PSF)	p3 (PSF)	p4 (PSF)	pT (PSF)
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.35	0.05	53.88	1.43	0.33	0.17	55.81
0.70	0.10	188.22	5.61	1.16	0.67	195.66
1.05	0.15	342.30	12.16	2.11	1.45	358.03
1.40	0.20	462.37	20.55	2.85	2.46	488.23
1.75	0.25	524.70	30.12	3.24	3.60	561.65
2.10	0.30	532.65	40.17	3.29	4.80	580.90
2.45	0.35	502.46	50.06	3.10	5.98	561.60
2.80	0.40	451.53	59.24	2.79	7.08	520.64
3.15	0.45	393.11	67.31	2.43	8.04	470.89
3.50	0.50	335.43	73.98	2.07	8.84	420.32
3.85	0.55	282.75	79.12	1.75	9.45	373.07
4.20	0.60	236.76	82.71	1.46	9.88	330.82
4.55	0.65	197.68	84.83	1.22	10.14	293.87
4.90	0.70	165.00	85.61	1.02	10.23	261.85
5.25	0.75	137.92	85.22	0.85	10.18	234.18
5.60	0.80	115.59	83.86	0.71	10.02	210.18
5.95	0.85	97.21	81.71	0.60	9.76	189.28
6.30	0.90	82.07	78.95	0.51	9.43	170.96
6.65	0.95	69.58	75.75	0.43	9.05	154.81
7.00	1.00	59.24	72.24	0.37	8.63	140.49

Max = 580.90 psf