Soldier Beam Design - Conventional Method

	Granular Soils	
S	72	psf
Wa	45	pcf
Wp	350	pcf
FS	1.3	
Ср	0	pcf
Csl	0	psf
Cz	0	ft
Cf	0	Factor x Cp
PLa	0	lbs
PLDa	0	ft
PLb	0	lbs
PLDb	0	ft
Н	10	ft
ND	1	ft
SPV	350	psf
PD	24	in
PS	6	ft
PF	2	Factor x PD
AF	1	Factor x PD
D	15.19	ft
Х	6.17	ft
Μ	1,788	k-in
CC	1	in
BL	2	in
Fy	50	ksi
	Yes	
	W14X43	
	W14X43	
	0.95	<1, OK
	S Wa Wp FS Cp Csi Cz Cf PLa PLDa PLDb PLDb PLDb H ND SPV PD PS PF AF D X M CC BL Fy	Granular Solis S 72 Wa 45 Wp 350 FS 1.3 Cp 0 Csl 0 Cz 0 Cf 0 PLa 0 PLDa 0 PLDb 0 PLDb 0 PLDb 0 PLDb 0 PD 24 PS 6 PF 2 AF 1 D 15.19 X 6.17 M 1,788 CC 1 BL 2 Fy 50 Ves W14X43 W14X43 0.95

Use W14X43 soldier beam placed in 24" diameter pier w/16'-0" minimum embedment



Bedrock @ Top of Passive Loading Distribution