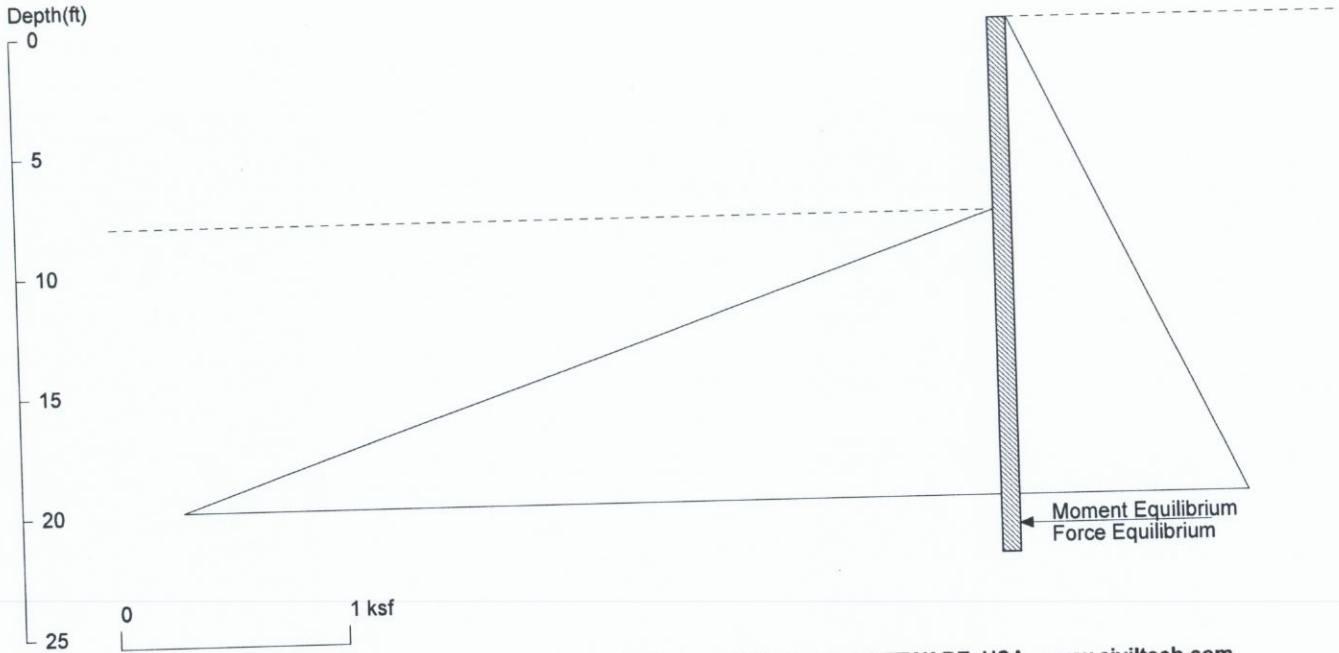


6800 - 96th Ave SE, MI 8-ft Temp Soldier Pile Wall



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 File: Z:\Projects\2017 Projects\17-014 6800 - 96th Avenue SE, MI\Report\8-ft Temp Driven Soldier Pile Wall.sh8

Wall Height=8.0 Pile Diameter=0.7 Pile Spacing=6.0 Wall Type: 3. Soldier Pile, Driving

PILE LENGTH: Min. Embedment=14.23 Min. Pile Length=22.23
 MOMENT IN PILE: Max. Moment=67.66 per Pile Spacing=6.0 at Depth=14.30

PILE SELECTION:

Request Min. Section Modulus = 24.6 in³/pile=403.21 cm³/pile, F_y= 50 ksi = 345 MPa, F_b/F_y=0.66
 W8X35 has Section Modulus = 31.2 in³/pile=511.27 cm³/pile. It is greater than Min. Requirements!
 Top Deflection = 1.28(in) based on E (ksi)=29000.00 and I (in⁴)/pile=127.0

DRIVING PRESSURES (ACTIVE, WATER, & SURCHARGE):

Z1	P1	Z2	P2	Slope
0	0	8	0.400	0.05
8	0.4	99	4.950	0.05

} Active Pressure

PASSIVE PRESSURES:

Z1	P1	Z2	P2	Slope
8	0	99	27.30	0.3

ACTIVE SPACING:

No.	Z depth	Spacing
1	0.00	6.00
2	8.00	0.67

- 6ft spacing

PASSIVE SPACING:

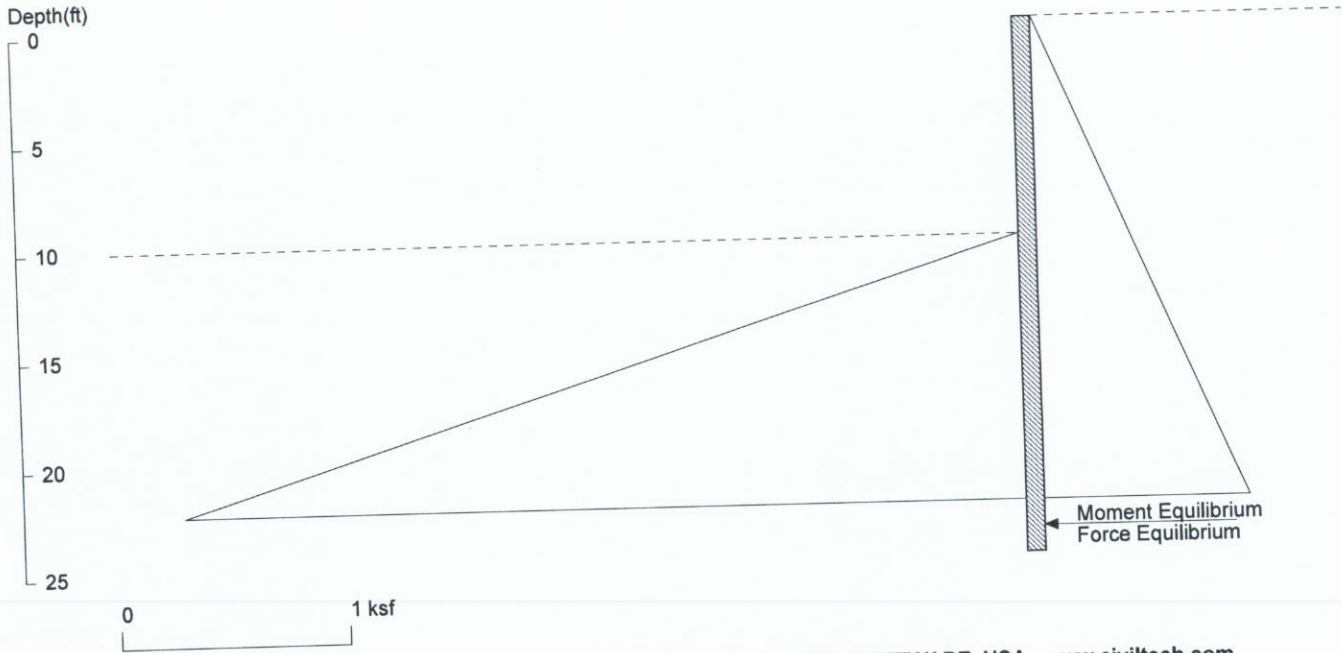
No.	Z depth	Spacing
1	8.00	2.01

→ 3D

UNITS: Width, Spacing, Diameter, Length, and Depth - ft; Force - kip; Moment - kip-ft
 Friction, Bearing, and Pressure - ksf; Pres. Slope - kip/ft³; Deflection - in

6800 - 96th Ave SE, MI

10-ft Temp Soldier Pile Wall



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Wall Height=10.0 Pile Diameter=0.7 Pile Spacing=5.0 Wall Type: 3. Soldier Pile, Driving

PILE LENGTH: Min. Embedment=14.68 Min. Pile Length=24.68
 MOMENT IN PILE: Max. Moment=77.65 per Pile Spacing=5.0 at Depth=16.37

PILE SELECTION:

Request Min. Section Modulus = 28.2 in³/pile=462.70 cm³/pile, F_y= 50 ksi = 345 MPa, F_b/F_y=0.66
 W8X35 has Section Modulus = 31.2 in³/pile=511.27 cm³/pile. It is greater than Min. Requirements!
 Top Deflection = 1.96(in) based on E (ksi)=29000.00 and I (in⁴)/pile=127.0

DRIVING PRESSURES (ACTIVE, WATER, & SURCHARGE):

Z1	P1	Z2	P2	Slope
0	0	10	0.400	0.04
10	0.4	99	3.960	0.04

Active Pressure

PASSIVE PRESSURES:

Z1	P1	Z2	P2	Slope
10	0	99	26.700	0.3

Passive

ACTIVE SPACING:

No.	Z depth	Spacing
1	0.00	5.00
2	10.00	0.67

5-ft spacing

PASSIVE SPACING:

No.	Z depth	Spacing
1	10.00	2.01

→ 3D

UNITS: Width, Spacing, Diameter, Length, and Depth - ft; Force - kip; Moment - kip-ft
 Friction, Bearing, and Pressure - ksf; Pres. Slope - kip/ft³; Deflection - in