Soils Safety Training

Butler Engineering, Inc.

Soil Testing • Engineering & Safety Consulting • Safety Training

August 10, 1996

Gary Skibinski
3048 S 45th St
Milwaukee, WI 53219

Subject: Soil Bearing Test - 3200 S 116th St
West Allis, Wisconsin

Dear Mr. Skibinski:

Attached is the Soil Test Report for the abovementioned location.

If you elect to build in this location, I would recommend that you contact me after the footings have been excavated so that I can verify that the conditions throughout the site are consistent with the findings of this report.

If you have any questions regarding the report please do not hesitate to call.

Sincerely,

Harry G. Butler, P.E.

10255 Kay Parkway • Hales Corners, WI 53130 • Tel: 414-427-1994 • Fax: 414-529-1993

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SOIL TEST REPORT

Date: August 10, 1996

Property Location: 3200 S 116th St
West Allis, Wisconsin

Scope: Three soil borings were made to determine the soil bearing capacity for a wood frame residential building with shallow foundations.

Results:

Soil Boring No.: 1 Ground Elevation: 98.8 ft.

Horizon	Depth (in.)	Munsell Color	Texture
1	0-60		Mixed fill (Sandy loam, asphalt, gravel)
2	60 - 96	7/5 YR 3/1	Sandy loam / loam
3	96 - 126	7.5 YR 5/1	Loamy sand and Gravel
4	126 - 144	7.5 YR 5/1	Sandy Clay Loam
5	144 - 164	7.5 YR 5/1	Clay

At Depth of 144" below grade

Drops with 15 lb hammer -	21
UCS	.4 TSF
Shear	.25 TSF

Remarks: 1) Water was observed at 121" (El. 87.8).

Soil Boring No.: 2 Ground Elevation: 100.3 ft.

Horizon	Depth (in.)	Munsell Color	Texture
1	0 - 72		mixed fill
2	72 - 90	7.5YR 3/1	loam (Original topsoil/roots)
3	90 - 136	7.5YR 4/2	sand
4	136 - 164	7.5YR 4/2	Sandy Clay Loam

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At Depth of 150" below grade

Drops with 15 lb hammer -	27
UCS	.7 TSF
Shear	.25 TSF

Remarks: 1) Water was observed at 121" (El. ~~99.3~~ 90.2).

Soil Boring No.: 3 Ground Elevation: 99.8 ft.

Horizon	Depth (in.)	Munsell Color	Texture	
1	0 - 60		mixed fill	(mostly sand)
2	60 - 72	7.5YR 3/1	sandy loam	(Original topsoil/roots)
3	72 - 164	7.5YR 5/1	Sandy Clay Loam & gravel	

Conclusions:

1) Bottom of footings should be placed at an elevation of 90.0'.

2) Basement floor elevation should be placed at an elevation of 96.0'.

3) In order to limit settlement of building to not greater than 1", utilize footings that are 3'-6" wide by 1' thick with 3 ea #5 rebars placed 2" above the bottom of the footings.

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