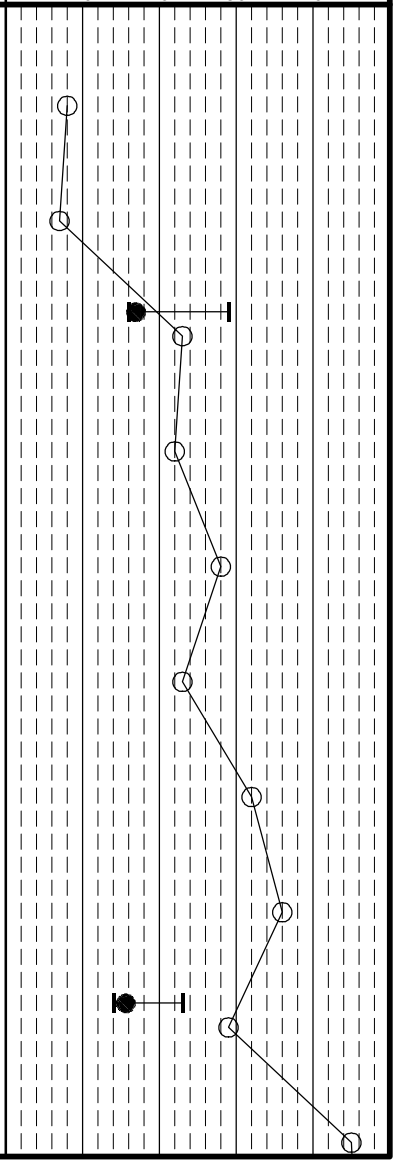
DLZ Ohio, Inc. * 6121 Huntley Road, Columbus, Ohio 43229 * (614) 888-0040

Client: ms consultants | *Project:* FRA-70-8.93 | *Job No.* 0221-1004.01

LOG OF: Boring B-040-0-08 | *Location:* Sta. 211+71.37, 62.65' RT., BL I-70 EB | *Date Drilled:* 8/15/2008 to 8/19/2008

WATER OBSERVATIONS:
Water seepage at: 10.5', 23.0', 47.0'
Water level at completion: 29.7' (beginning of shift, 8/18/08)
29.3' (includes drilling water)

FIELD NOTES:
Advanced boring using 4.0" diameter flush joint casing.

Depth (ft)	Elev. (ft)	Blows per 6"	Recovery	Sample No. Drive	Sample No. Press / Core	Hand Penetrometer (tsf)	DESCRIPTION	Graphic Log	GRADATION % Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay
	758.9													
		5 4 4	10	1		0.75	POSSIBLE FILL: Medium stiff brownish gray SILT AND CLAY (A-6a), little fine to coarse sand, trace gravel; brick fragments coating sample; moist.							
3.5	755.4													
5		4 3 4	1	2		--	Medium stiff brown SILT AND CLAY (A-6a), some fine to coarse sand, trace gravel; moist.							
		9 11 11	14	3		3.0	@ 6.0'-7.5', very stiff.		8	11	---	18	37	26
10		6 13 8	4	4		<0.25	@ 8.5'-10.0', very soft, some gravel.							
11.0	747.9													
		8 12 15	2	5			Medium dense gray GRAVEL (A-1-a); wet.							
13.5	745.4													
15		6 12 10	18	6		3.0	Very stiff gray SILT AND CLAY (A-6a), some fine to coarse sand, trace gravel; damp to moist. @ 13.5'-15.0', contains silt and sand seams.							
		8 12 18	18	7		4.0								
20		10 14 20	3	8		2.75								
21.0	737.9													
		12 14 14	15	9		2.0	Stiff to very stiff gray SANDY SILT (A-4a), some fine to coarse sand, little gravel; moist.		12	10	---	20	36	22
23.5	735.4													
25	733.9	14 18 25	2	10			Dense gray GRAVEL WITH SAND, SILT, AND CLAY (A-2-6); possible cobbles; wet.							

STANDARD PENETRATION (N60)
Natural Moisture Content, % - ●
PL ⊢——⊣ LL
Blows per foot - ○ / Non-Plastic - NP
10 20 30 40