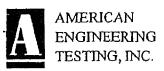
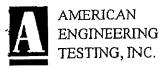
NOTE:

Boring #5 was not drilled due to underground utility conflicts



SUBSURFACE BORING LOG

AET JOB NO: 05-02680 LOG OF BORING NO. 6 (p. 1 of 1) PROJECT: Proposed Addition to Cossetta's Restaurant; St. Paul, MN DEPTH SURFACE ELEVATION: 84.4 MATERIAL DESCRIPTION 3" Bituminous pavement FILL, mixture of sand and clayey sand, a little gravel, brown 1 - FILL, mostly gravelly silty sand, pieces of brick, brown FILL, mostly gravelly silty sand, pieces of brick, brown 8 M SS 4 8 M SS 4	\Box
SURFACE ELEVATION: 3-1-4 GEOLOGY N MC TYPE IN. WC DEN LL PL 6-4 1 - SURFACE ELEVATION: 3-1-4 GEOLOGY N MC TYPE IN. WC DEN LL PL 6-4 1 - SURFACE ELEVATION: 3-1-4 M	
3" Bituminous pavement FILL, mixture of sand and clayey sand, a little gravel, brown 1 - FILL, mixture of sand and clayey sand, a little gravel, brown 15 M SS 4 11 M SS 6 FILL FILL FILL FILL FILL SS 4 BY SS 4	TS
FILL, mixture of sand and clayey sand, a little gravel, brown 15 M SS 4 11 M SS 6 15 M SS 4 11 M SS 6 FILL 5 FILL, mostly gravelly silty sand, pieces of brick, brown 7 - 8 M SS 4	¥200
3 - 4 - 5 - FILL, mostly gravelly silty sand, pieces of brick, brown 7 - 8 M SS 4	
FILL, mostly gravelly silty sand, pieces of brick, brown FILL SS 4 R M SS 4	
FILL, mostly gravely stity sand, pieces of brick, brown	
8-1	
9-	
10 - FILL, mostly silty sand with gravel, pieces of brick, metal, cinders and clinkers 57 M SS 12	
1) - REFUSAL TO HSA AT 11.1'	
DEPTH: DRILLING METHOD WATER LEVEL MEASUREMENTS NOTE: REFER	то
0-11.1' 3,25" HSA DATE TIME SAMPLED CASING CAVE-IN DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH DEPTH FLUID LEVEL THE ATTACH	
8/8/06 7:40 None SHEETS FOR	
BORING CLOSE TERMINOLOG	
COMPLETED: 8/8/06 DR: SB LG: TM Rig: 1C THIS LOG	



SUBSURFACE BORING LOG

AET JO	B NO: 05-02680						LO	G OF	BÓI	RING N	O	7	(p.	1 of	1)	
PROJEC	Proposed Add	ition to C	Cossetta	s Re	stau	rant; S	st. P	aul,	M	N_						
DEPTH IN FEET	SURFACE ELEVATION:				GE	OLOGY	N	мс	SĄ	MPLE YPE	REC IN.			BORAT		
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	moist, very dense, Textural sand with gravel	Classificati	ion: Silty	/												}
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EXPLORATION/CLASSIFICATION METHODS

SAMPLING METHODS

Split-Spoon Samples (SS) - Calibrated to N∞ Values

Standard penetration (split-spoon) samples were collected in general accordance with ASTM:D1586 with one primary modification. The ASTM test method consists of driving a 2" O.D. split-barrel sampler into the in-situ soil with a 140-pound hammer dropped from a height of 30". The sampler is driven a total of 18" into the soil. After an initial set of 6", the number of hammer blows to drive the sampler the final 12" is known as the standard penetration resistance or N-value. Our method uses a modified hammer weight, which is determined by measuring the system energy using a Pile Driving Analyzer (PDA) and an instrumented rod.

In the past, standard penetration N-value tests were performed using a rope and cathead for the lift and drop system. The energy transferred to the split-spoon sampler was typically limited to about 60% of it's potential energy due to the friction inherent in this system. This converted energy then provides what is known as an No blow count.

Most of todays drill rigs incorporate an automatic hammer lift and drop system, which has higher energy efficiency and subsequently results in lower N-values than the traditional No values. By using the PDA energy measurement equipment, we are able to determine actual energy generated by the drop hammer. With the various hammer systems available, we have found highly variable energies ranging from 55% to over 100%. Therefore, the intent of AET's hammer calibrations is to vary the hammer weight such that hammer energies lie within about 60% to 65% of the theoretical energy of a 140-pound weight falling 30". The current ASTM procedure acknowledges the wide variation in N-values, stating that N-values of 100% or more have been observed. Although we have not yet determined the statistical measurement uncertainty of our calibrated method to date, we can state that the accuracy deviation of the N-values using this method are significantly better than the standard ASTM Method.

Disturbed Samples (DS)/Spin-up Samples (SU)

Sample types described as "DS" or "SU" on the boring logs are disturbed samples, which are taken from the flights of the auger. Because the auger disturbs the samples, possible soil layering and contact depths should be considered approximate.

Sampling Limitations

Unless actually observed in a sample, contacts between soil layers are estimated based on the spacing of samples and the action of drilling tools. Cobbles, boulders, and other large objects generally cannot be recovered from test borings, and they may be present in the ground even if they are not noted on the boring logs.

CLASSIFICATION METHODS

Soil classifications shown on the boring logs are based on the Unified Soil Classification (USC) system. The USC system is described in ASTM:D2487 and D2488. Where laboratory classification tests (sieve analysis or Atterberg Limits) have been performed, accurate classifications per ASTM:D2487 are possible. Otherwise, soil classifications shown on the boring logs are visual-manual judgments. Charts are attached which provide information on the USC system, the descriptive terminology, and the symbols used on the boring logs.

The boring logs include descriptions of apparent geology. The geologic depositional origin of each soil layer is interpreted primarily by observation of the soil samples, which can be limited. Observations of the surrounding topography, vegetation, and development can sometimes aid this judgment.

WATER LEVEL MEASUREMENTS

The ground water level measurements are shown at the bottom of the boring logs. The following information appears under "Water Level Measurements" on the logs:

- Date and Time of measurement
- Sampled Depth: lowest depth of soil sampling at the time of measurement
- Casing Depth: depth to bottom of casing or hollow-stem auger at time of measurement
- Cave-in Depth: depth at which measuring tape stops in the borehole
- Water Level: depth in the borehole where free water is encountered
- Drilling Fluid Level: same as Water Level, except that the liquid in the borehole is drilling fluid

The true location of the water table at the boring locations may be different than the water levels measured in the boreholes. This is possible because there are several factors that can affect the water level measurements in the borehole. Some of these factors include: permeability of each soil layer in profile, presence of perched water, amount of time between water level readings, presence of drilling fluid, weather conditions, and use of borehole casing.

SAMPLE STORAGE

Unless notified to do otherwise, we routinely retain representative samples of the soils recovered from the borings for a period of 30

DR	ILLING AND SAMPLE	<u>NG SYMBOLS</u>
ool	Definition	

Symbol	Definition
B,H,N:	Size of flush-joint casing
CA:	Crew Assistant (initials)
CAS:	Pipe casing, number indicates nominal diameter in inches
CC:	Crew Chief (initials)
COT:	Clean-out tube
DC:	Drive casing; number indicates diameter in inches
DC. DM:	Drilling mud or bentonite slurry
DR:	Driller (initials)
DS:	Disturbed sample from auger flights
FA:	Flight auger; number indicates outside diameter in
I'A.	inches
HA:	Hand auger; number indicates outside diameter
HSA:	Hollow stem auger; number indicates inside diameter in inches
LG:	Field logger (initials)
MC:	Column used to describe moisture condition of
	samples and for the ground water level symbols
N (BPF):	Standard penetration resistance (N-value) in blows per
•	foot (see notes)
NQ:	NQ wireline core barrel
PQ:	PQ wireline core barrel
RD:	Rotary drilling with fluid and roller or drag bit
REC:	In split-spoon (see notes) and thin-walled tube
	sampling, the recovered length (in inches) of sample.
	In rock coring, the length of core recovered
	(expressed as percent of the total core run). Zero indicates no sample recovered.
mext.	Revert drilling fluid
REV:	Standard split-spoon sampler (steel; 1%" is inside
SS:	diameter; 2" outside diameter); unless indicated otherwise
011	Spin-up sample from hollow stem auger
SU	Thin-walled tube; number indicates inside diameter
TW:	in inches
WASH:	Sample of material obtained by screening returning rotary drilling fluid or by which has collected inside the borehole after "falling" through drilling fluid
WH:	Sampler advanced by static weight of drill rod and

Sampler advanced by static weight of drill rod

Estimated water level based solely on sample

94 millimeter wireline core barrel

Water level directly measured in boring

DST: E: HYD: LL: LP: OC: PL: q.: q.: q_u : R: ROD:

Symbol Definition CONS: One-dimensional consolidation test Dry density, pcf DEN: Direct shear test Pressuremeter Modulus, tsf Hydrometer analysis Liquid Limit, % Pressuremeter Limit Pressure, tsf Organic Content, % Coefficient of permeability (K) test; F - Field; PERM: L - Laboratory Plastic Limit, % Pocket Penetrometer strength, tsf (approximate) Static cone bearing pressure, tsf

TEST SYMBOLS

(aggregate length of core pieces 4" or more in length as a percent of total core run) SA: Sieve analysis

Rock Quality Designation of Rock Core, in percent

Unconfined compressive strength, psf

Electrical Resistivity, ohm-cms

Triaxial compression test TRX:

Vane shear strength, remoulded (field), psf VSR: Vane shear strength, undisturbed (field), psf VSU: Water content, as percent of dry weight WC: Percent of material finer than #200 sieve %-200:

STANDARD PENETRATION TEST NOTES (Calibrated Hammer Weight)

The standard penetration test consists of driving a split-spoon sampler with a drop hammer (calibrated weight varies to provide N₆₀ values) and counting the number of blows applied in each of three 6" increments of penetration. If the sampler is driven less than 18" (usually in highly resistant material), permitted in ASTM:D1586, the blows for each complete 6" increment and for each partial increment is on the boring log. For partial increments, the number of blows is shown to the nearest 0.1' below the slash.

The length of sample recovered, as shown on the "REC" column, may be greater than the distance indicated in the N column. The disparity is because the N-value is recorded below the initial 6" set (unless partial penetration defined in ASTM:D1586 is encountered) whereas the length of sample recovered is for the entire sampler drive (which may even extend more than 18").

WR:

 ∇ :

94mm:

hammer

appearance

UNIFIED SOIL CLASSIFICATION SYSTEM ASTM Designations: D 2487, D2488

AMERICAN ENGINEERING TESTING, INC.



					oil Classification	
Criteria for	Assigning Group Syr	nbols and Group Nan	nes Using Laboratory Tests [*]	Group Symbol	Group Name ^B	
Coarse-Grained	Gravels More	Clean Gravels Less than 5%	Cu≥4 and 1≤Cc≤3 ^E	ĞW	Well graded gravel ^F	
oils More nan 50%	than 50% coarse fraction retained	fines ^C	Cu<4 and/or 1>Cc>3 ^E	GP	Poorly graded gravel ^t	
stained on lo. 200 sieve	on No. 4 sieve	Gravels with	Fines classify as ML or MH	GM	Silty gravel ^{F.G.H}	
		than 12% fines C	Fines classify as CL or CH	GC	Clayey gravelF,U,H	
	Sands 50% or	Clean Sands	Cu≥6 and 1≤Cc≤3 ^E	ŚW	Well-graded sand	
	more of coarse fraction passes	fines ^D	Cu<6 and 1>Cc>3 ^E	SP	Poorly-graded sand	
	No. 4 sieve	Sands with Fines more	Fines classify as ML or MH	SM	Silty sand ^{G.H.)}	
		than 12% fines D	Fines classify as CL or CH	SC	Clayey sand G.H.I	
Fine-Grained	Silts and Clays Liquid limit less	inorganic	Pl>7 and plots on or above "A" line	CL	Lean clay KLM	
Soils 50% or more passes the No. 200	than 50		PI<4 or plots below "A" line	ML	Silt ^{KLM}	
ine No. 200 Sieve		organic	Liquid limit-oven dried <0.75	OL	Organic clay	
(see Plasticity			Liquid limit - not dried		Organic silt ^{K.L.M.O}	
Chart below)	Silts and Clays	inorganic	PI plots on or above "A" line	СН	Fat clay LLM	
	Liquid limit 50 or more		Pl plots below "A" line	МН	Elastic silt ^{K,L,M} Organic clay ^{K,L,M,P}	
		organic <u>Liquid limit—oven dried</u> <0.75 Liquid limit — not dried				
z = 1				Organic silt ^{K.C.M.Q}		
Highly organic soil			PT	Peat ^R		
			80			

Notes ^Based on the material passing the 3-in (75-mm) sieve.

^BIf field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name. "Gravels with 5 to 12% fines require dual

symbols:

GW-GM well-graded gravel with silt GW-GC well-graded gravel with clay GP-GM poorly graded gravel with silt OP-GC poorly graded gravel with clay DSands with 5 to 12% fines require dual symbols:

SW-SM well-graded sand with silt SW-SC well-graded sand with clay SP-SM poorly graded sand with silt SP-SC poorly graded sand with clay

 $(D_{30})^2$ $^{\rm E}Cu = D_{60}/D_{10}$ Cc = Dio x D60

FIf soil contains ≥15% sand, add "with sand" to group name, "If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

If fines are organic, add "with organic fines" to group name. 11f soil contains ≥15% gravel, add "with gravel" to group name.

If Atterberg limits plot is hatched area, soils is a CL-ML silty clay.

KIf soil contains 15 to 29% plus No. 200 add "with sand" or "with gravel", whichever is predominant.

If soil contains ≥30% plus No. 200, predominantly sand, add "sandy" to group name. MIf soil contains ≥30% plus No. 200, predominantly gravel, add "gravelly"

to group name. to group name.

*P|≥4 and plots on or above "A" line.

*P|>4 or plots below "A" line.

*P| plots on or above "A" line.

*P| plots below "A" line.

*P| plots below "A" line.

*P| plots below "A" line.

RFiber Content description shown below.

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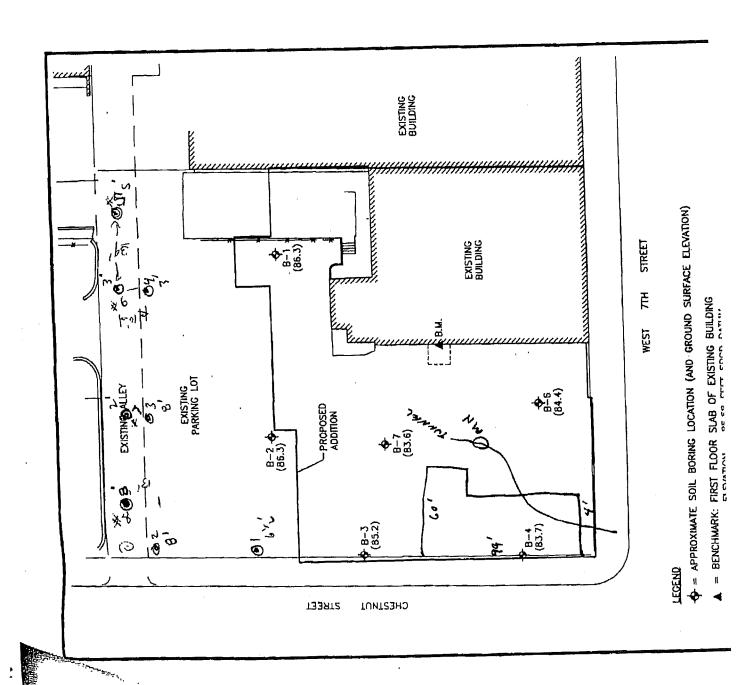
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Boulders Cobbles Corpvel Sand Fines (silt & cla Moi D (Dry): M (Moist): W (Wet/ Waterbearing):	isture/Frost Condition (MC Column) Absense of moisture, dusty, dry to touch. Damp, although free water not visible. Soil may still have a high water content (over "optimum"). Free water visible intended to describe non-plastic soils. Waterbearing usually relates to sands and sand with silt.	Lenses: F	3% - 14% 15% - 29% 30% - 50% Ing Notes ayers less than 5° thick of liftering material or color. Pockets or layers greater than ½" hick of differing material or color.	Very Soft Soft Firm Stiff Very Stiff Hard Fiber C Term Fibric Peat: Hemic Peat: Sapric Peat:	less than 2 2 - 4 5 - 8 9 - 15 16 - 30 Greater than 30 Content of Peat Fiber Content (Visual Estimate) Greater than 67% 33 - 67% Less than 33%	Soils are described a and is judged to he content to influence organic used for bord With roots: Judged of root proper Trace roots: Small to be in	to have sufficient quantity s to influence the soil
F (Frozen):	Soil frozen			<u> </u>			

Cossetta's Added Geoprobes AET Project 29-00665 8/8/2011

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