



NOTES

1. SOIL DESCRIPTIONS ARE BY VISUAL EXAMINATION OF SOIL SAMPLES RECOVERED DURING DRILLING OPERATIONS.
2. SOIL DESCRIPTIONS ARE IN ACCORD WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.
3. GROUND WATER TABLE WAS MEASURED INSIDE THE DRILL CASING AT THE COMPLETION OF EACH BOREHOLE.
4. GROUND WHERE ENCOUNTERED AT THIS SITE IS PERCHED IN SOME AREAS AND NOT CONSIDERED RELIABLE.
5. SOIL STRATIFICATIONS ARE ACCURATE TO WITHIN TWO FEET VERTICALLY.
6. SOIL SAMPLES WERE OBTAINED USING A CENTRAL MINE EQUIPMENT (CME) AUTOMATIC TRIP HAMMER.
7. STAKE OUT AND ELEVATIONS BY OTHERS.
8. ALL WATER DEPTHS ARE DEPICTED ON THE RIGHT HAND SIDE OF EACH BORING LOG.

UNIFIED SOIL CLASSIFICATION	
SOIL GROUPS	TYPICAL NAMES AND SOIL SYMBOLS
1a Thru 1d	BED ROCK
GW	WELL GRADED GRAVELS, GRAVEL SAND MIXTURES, LITTLE OR NO FINES
GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES. LITTLE OR NO FINES
GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURE
GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURE
SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
SM	SILTY SANDS, SAND - SILT MIXTURES
SC	CLAYEY SANDS, SAND - CLAY MIXTURES
ML	INORGANIC SILTS, VERY FINE SANDS, CLAYEY SILTS, SLIGHT PLASTICITY
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS SANDY CLAYS, SILTY CLAYS
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS

ALLOWABLE SOIL BEARING PRESSURES, N.Y.C. BLDG. CODE TABLE 1804.1		
CLASS OF MATERIALS (Notes 1 and 3)	MAXIMUM ALLOWABLE FOUNDATION PRESSURE (TSF)	MAXIMUM ALLOWABLE FOUNDATION PRESSURE (KPa)
1. BEDROCK (NOTES 2 and 7)		
1a HARD SOUND ROCK - GNEISS, DIABASE, SCHIST	60	5,746
1b MEDIUM HARD ROCK - MARBLE, SERPENTINE	40	3,830
1c INTERMEDIATE ROCK - SHALE, SANDSTONE	20	1,915
1d SOFT ROCK - WEATHERED ROCK	8	766
2. SANDY GRAVEL & GRAVEL (GW, GP) (NOTES 3, 4, 8, and 9)		
2a DENSE	10	958
2b MEDIUM	6	575
3. GRANULAR SOILS (GC, GM, SW, SP, SM, & SC) (NOTES 4, 5, 8, and 9)		
3a DENSE	6	575
3b MEDIUM	3	287
4. CLAYS (SC, CL, & CH) (NOTES 4, 6, 8, and 9)		
4a HARD	5	479
4b STIFF	3	287
4c MEDIUM	2	192
5. SILTS & SILTY SOILS (ML & MH) (NOTES 4, 8, and 9)		
5a DENSE	3	287
5b MEDIUM	1.5	144
6. ORGANIC SILTS, ORGANIC CLAYS, PEATS, SOFT CLAYS, LOOSE GRANULAR SOILS, & VARIED SILTS	SEE 1804.2.1	SEE 1804.2.1
7. CONTROLLED & UNCONTROLLED FILLS	SEE 1804.2.2 OR 1804.2.3	SEE 1804.2.2 OR 1804.2.3

COMPACTION RELATED TO SPOON BLOWS PER FOOT			
SAND		SILT & CLAY	
LOOSE	15 OR LESS	SOFT	10 OR LESS
MEDIUM	16 TO 39	MEDIUM	11 TO 29
DENSE	40 OR MORE	HARD	30 OR MORE

" N " STANDARD PENETRATION TEST (2" SPOON, 140lb HAMMER, 30" FALL)			
SPOON BLOW COUNT IS GENERALLY SHOWN IN 6" INCREMENTS FOR 2' DRIVE TO OBTAIN BLOWS PER FOOT (N) USE THE 2ND & 3RD 6" INCREMENT			
	ROTARY CASING	EXTRA HEAVY CASING	SAMPLE SPOON
SIZES, INCHES	2.5		2.0
HAMMER WEIGHT, POUNDS			140
HAMMER FALL, INCHES			30
CB - CASING BLOWS PER 1 FOOT DRIVE	UD - UNDISTURBED SOIL SAMPLE		
SB - SPOON BLOWS PER 6 INCH DRIVE	NO - SAMPLE NUMBER		
P - PUSHED BY WEIGHT OF HAMMER	FEET - DEPTH FROM GND. SUR. NOTED AT EACH 5'		
WOR - WEIGHT OF ROD	WOR - WEIGHT OF HAMMER		

THE LIABILITY OF SOIL MECHANICS DRILLING CORP., ITS OFFICERS OR EMPLOYEES, FOR ERRORS, OMISSIONS OR NEGLIGENCE RESULTING IN PERSONAL INJURIES, PROPERTY DAMAGE OR ANY CONSEQUENTIAL DAMAGES, IS LIMITED TO THE AMOUNT OF THE FEE PAID FOR THIS REPORT. THE RETENTION OR USE OF ANY PART OF THIS REPORT WILL CONSTITUTE AN ACCEPTANCE OF THIS LIMITED LIABILITY. IF THIS IS UNACCEPTABLE, THE CLIENT MUST NOTIFY SOIL MECHANICS DRILLING CORP. IN WRITING BY CERTIFIED MAIL, WITHIN SEVEN DAYS FROM THE DATE OF RECEIPT. THE FEE CHARGED FOR THIS REPORT IS BASED ON THIS LIMITATION OF LIABILITY WHICH IS THE ESSENCE OF THIS AGREEMENT. IF THE CLIENT WANTS A HIGHER LIMITATION OF LIABILITY, SOIL MECHANICS DRILLING CORP. WILL NEGOTIATE ONE, BASED UPON A HIGHER FEE BEING CHARGED FOR THE ADDITIONAL ASSUMPTION OF LIABILITY. SOIL MECHANICS DRILLING CORP., ITS OFFICERS OR EMPLOYEES, HAVE NO LIABILITY OR RESPONSIBILITY TO PERSONS OTHER THAN THE CLIENT FOR WHOM THIS REPORT WAS PREPARED. ANYONE, OTHER THAN OUR CLIENT, RELIES ON THIS REPORT AT THEIR OWN RISK.

VHB ENGINEERING, SURVEYING and LANDSCAPE ARCHITECTURE, P.C.
 TRANSPORTATION • LAND DEVELOPMENT • ENVIRONMENTAL SERVICES
 2150 JOSHUAS PATH
 SUITE 300
 HAUPPAUGE, NEW YORK 11788

SOIL MECHANICS DRILLING CORP.
 subsoil investigations
 3770 MERRICK ROAD • SEAFORD, NEW YORK 11783 • 516 - 221-2333
 SUBSURFACE INVESTIGATION
 ST. JOHNSLAND ROAD
 KINGS PARK, NEW YORK

VERTICAL BORING SCALE: 1/2" = 1'-0" UNLESS NOTED OTHERWISE	DRAWING DATE MAY 26, 2010	DRAWING NUMBER 10R271.4
DATES OF BORING MAY 19 & 20, 2010	DRAWN BY: NAR CHECKED BY: ROB R. REVISED DATE: FEB. 14, 2012	SHEET 1 OF 2

