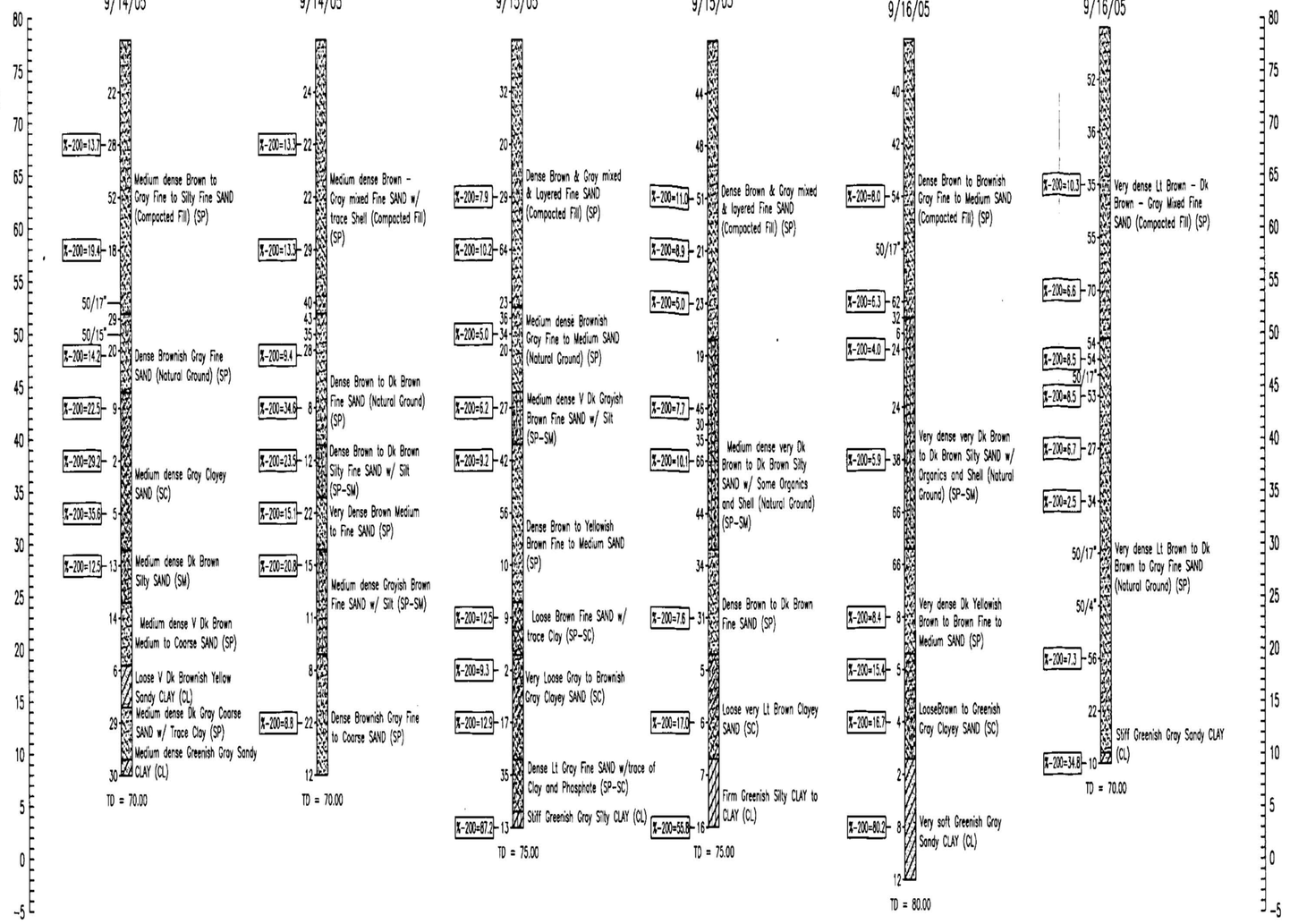

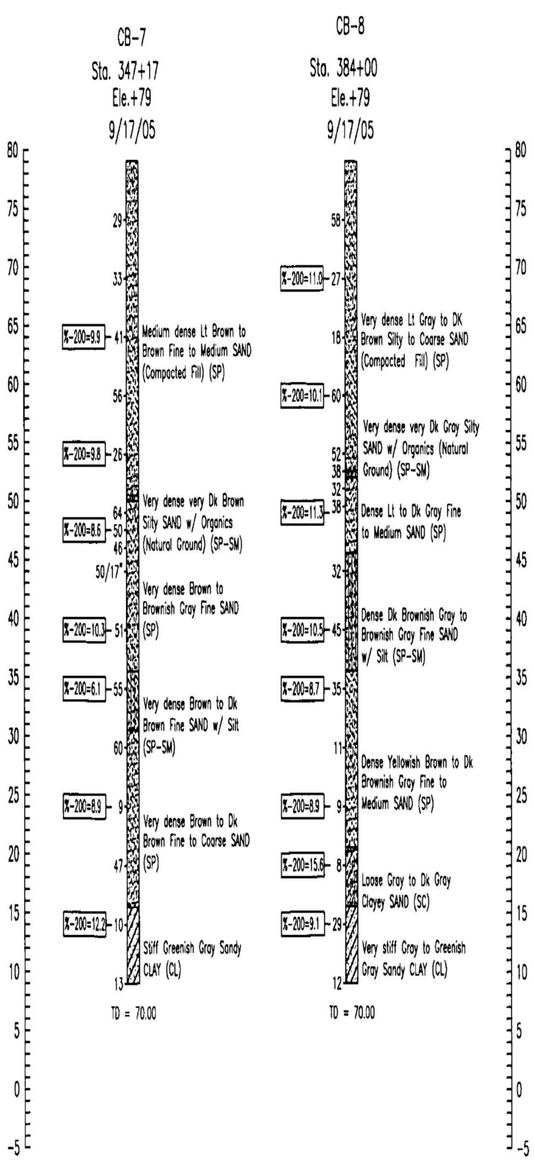

ENGINEERING CLASSIFICATION

I COHESIONLESS SOILS

DESCRIPTION	BLOW COUNT "N" *
VERY LOOSE	0 TO 4
LOOSE	5 TO 10
MEDIUM DENSE	11 TO 30
DENSE	31 TO 50
VERY DENSE	OVER 50

* BLOWS PER FOOT MEASURED USING 140 POUND WEIGHT HAVING A FREE FALL OF 30 INCHES

II COHESIVE SOILS

DESCRIPTION	UNCONFINED COMPRESSIVE STRENGTH, Qu, TSF	BLOW COUNT "N"
VERY SOFT	<1/4	0 TO 2
SOFT	1/4 TO 1/2	3 TO 4
FIRM	1/2 TO 1	5 TO 8
STIFF	1 TO 2	9 TO 15
VERY STIFF	2 TO 4	16 TO 30
HARD	OVER 4	OVER 30

TERMS CHARACTERIZING SOIL STRUCTURE

SLICKENSIDED	HAVING INCLINED PLANES OF WEAKNESS THAT ARE SLICK AND GLOSSY IN APPEARANCE.
FISSURED	CONTAINING SHRINKAGE CRACKS, FREQUENTLY FILLED WITH FINE SAND OR SILT; USUALLY MORE OR LESS VERTICAL.
LAMINATED	COMPOSED OF THIN LAYERS OF VARYING COLOR AND TEXTURE.
INTERBEDDED	COMPOSED OF ALTERNATE LAYERS OF DIFFERENT SOIL TYPES.
CALCAREOUS	CONTAINING APPRECIABLE QUANTITIES OF CALCIUM CARBONATE.
WELL GRADED	HAVING WIDE RANGE IN GRAIN SIZES AND SUBSTANTIAL AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES.
POORLY GRADED	PREDOMINANTLY OF ONE GRAIN SIZE, OR HAVING A RANGE OF SIZES WITH SOME INTERMEDIATE SIZE MISSING.

SOIL CLASSIFICATION LEGEND

N	STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT
%-200	PERCENT PASSING NO. 200 SIEVE SIZE (PERCENT FINES)
50/3"	50 BLOWS FOR 3 INCHES PENETRATION INTO SOIL
▽	GROUNDWATER LEVEL MEASURED ON DATE DRILLED
▼	GROUNDWATER LEVEL MEASURED AFTER DRILLING
γd	IN-PLACE DRY DENSITY IN PCF
Su	UNDRAINED SHEAR STRENGTH IN KSF

SILT, SAND, CLAY, SHELL, GRAVEL, CLAYEY-SAND, CLAYEY-SILT, CLAYEY-GRAVEL, SANDY-SILT, SANDY-CLAY, SANDY-GRAVEL, SANDY-PEAT, SILTY-SAND, SILTY-CLAY, SILTY-GRAVEL, GRAVELLY-SAND, GRAVELLY-CLAY, HARD-LIMESTONE, WEATHERED-LIMESTONE, SHELLY-SAND, SHELLY-CLAY, SHELLY-GRAVEL, MUCK, PEAT, CONCRETE, ASPHALT, CAVITY

URS Corporation Southern
Cass Mail Courtney
Tampa, FL 33607-1462
Telephone: (813) 286-1711

DESIGN WJW DR WJW CHK WJW
SURV GMW CHK GH BGM GMW
DATE DECEMBER 15, 2005

DRAWING REVISIONS

Rev	Description	by	Date

MANATEE POWER STATION
COOLING POND DRAINAGE REPORT
SPT BORING PROFILE

Florida Power & Light
700 Universe Blvd.
Juno Beach, FL 33408

FPL

GARY M. WANTLAND, P.E.
SIGNATURE
44614
FLORIDA P.E. NO.
DATE

SCALE: AS NOTED
PROJECT NUMBER
12005621.00000
FIGURE NUMBER
3

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