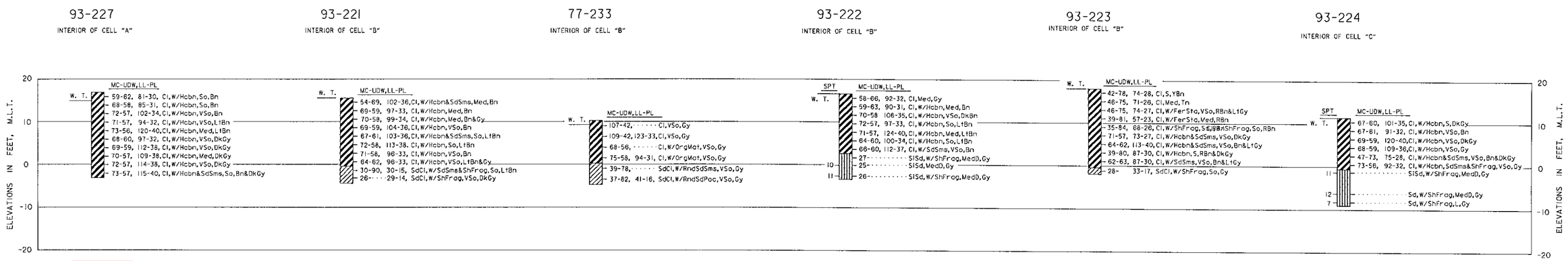

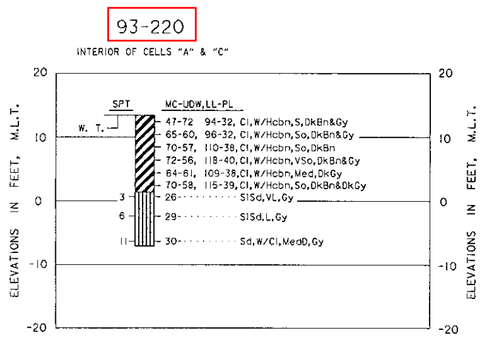

NOTES;

1. SOILS HAVE BEEN CLASSIFIED IN ACCORDANCE WITH ASTM 2487-93 "CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOILS CLASSIFICATION SYSTEM)". CONSISTENCY OF SOILS SUCH AS SOFT, MEDIUM, HARD, LOOSE, DENSE, ETC., ARE RELATIVE TERMS BASED ON ESTIMATED UNDISTURBED SHEAR STRENGTH OF THE MATERIAL AS DETERMINED BY VISUAL CLASSIFICATION POCKET PENETROMETER TESTS AND PENETRATION RESISTANCE DURING SAMPLING.
2. FIGURES TO THE RIGHT OF BORING LOGS ARE WATER CONTENTS IN PERCENT OF THE DRY WEIGHT, DRY DENSITY, LIQUID LIMIT, PLASTIC LIMIT, AND BAR LINEAR SHRINKAGE. (MC-UDW),(LL-PL),(B.L.S.)* FIGURES TO THE LEFT OF BORING LOGS ARE BLOWS PER FOOT OF PENETRATION FROM STANDARD PENETRATION TESTING.
3. BORINGS WERE DRILLED USING WET ROTARY DRILLING TECHNIQUES AND UNDISTURBED SAMPLES WERE RECOVERED WITH A 3-INCH DIAMETER THIN WALL SAMPLER WHERE COHESIVE MATERIALS WERE ENCOUNTERED. WHERE COHESIONLESS MATERIALS WERE ENCOUNTERED, DISTURBED SAMPLES WERE TAKEN WITH A SPLIT SPOON SAMPLER DURING PERFORMANCE OF STANDARD PENETRATION TESTING.
4. ELEVATIONS OF THE TOP OF BORINGS ON 79 SERIES BORINGS ARE APPROXIMATE.

VISUAL CLASSIFICATIONS:

Bl Black	Hcbn Hydrocarbon	Rts Root(s)	Tn Tan(nish)
Blk Black(y)	L Loose	S Stiff	Tr Traces
Bn Brown(ish)	Lt Light	Sd Sand(y)	V Very
Calc Calcareous	Ly Layer(s)	Sh Shell(y)	Wd Wood
Cl Clay(ey)	Mat Material	Sl Silty	W/ With
D Dense	Med Medium	Slks Slicken Sides	W.O.P. Weight Of Pipe
Dk Dark	Nod Nodules	Sms Seams	W.T. Water Table
Fer Ferrous	Ol Olive	So Soft	Y Yellow(ish)
Frag Fragment(s)	Org Organic	S.N.S. Sample Not Submitted	
Gv Gravel(ly)	Poc Pocket(s)	St Stone(s)	
Gy Gray(ish)	Prt Parting	Sta Stain(s)	
H Hard	Rnd Random		

LABORATORY CLASSIFICATION

CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.

CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, LEAN CLAYS.

ML INORGANIC SILTS AND VERY FINE SANDS, WITH SLIGHT PLASTICITY.
ML-CL SILT-CLAY OF LOW PLASTICITY

SC CLAYEY SANDS, SAND-CLAY MIXTURES.
SC-SM SLIGHTLT SILTY AND CLAYEY SAND, SAND WITH SILTS AND CLAYS.

SM SILTY SANDS, SAND-SILT MIXTURES.
SM-SC SILTY SAND, CLAYEY SAND

SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES.
SP-SM SLIGHTLY SILTY SANDS, SANDS WITH SOME SILTS.

GP POORLY-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.

SHELL

NOTES:

SEE F-55 FOR BORING LOCATIONS.
SEE F-61 FOR BORING NOTES AND LEGEND.

REVISION	DATE	DESCRIPTION	BY

OFFICE OF THE DISTRICT ENGINEER
U.S. ARMY ENGINEER DISTRICT, GALVESTON
CORPS OF ENGINEERS
GALVESTON, TEXAS

DRAWN BY: * E.S.R.
DESIGNED BY: * X
CHECKED BY: * X
SUBMITTED BY: *
CHIEF,
APPROVED: * CHIEF, ENGINEERING DIVISION
APPROVED: * CHIEF,
DATE: X

HOUSTON-GALVESTON NAVAGATION CHANNELS, TX.
PELICAN ISLAND PLACEMENT AREA

LOGS OF BORINGS

(* AS REQUIRED BY ENGINEER CIRCULAR NO. 1110-1-8152)
SCALE: AS SHOWN
SPEC. DATE:

Prepared under the direction of
Robert B. Gotlin, Col., C.E.,
District Engineer

DRAWING NUMBER
F-61
SHEET X OF X
FILE NO. X

DESIGN FILE:
CREATED BY:
DW
AT: