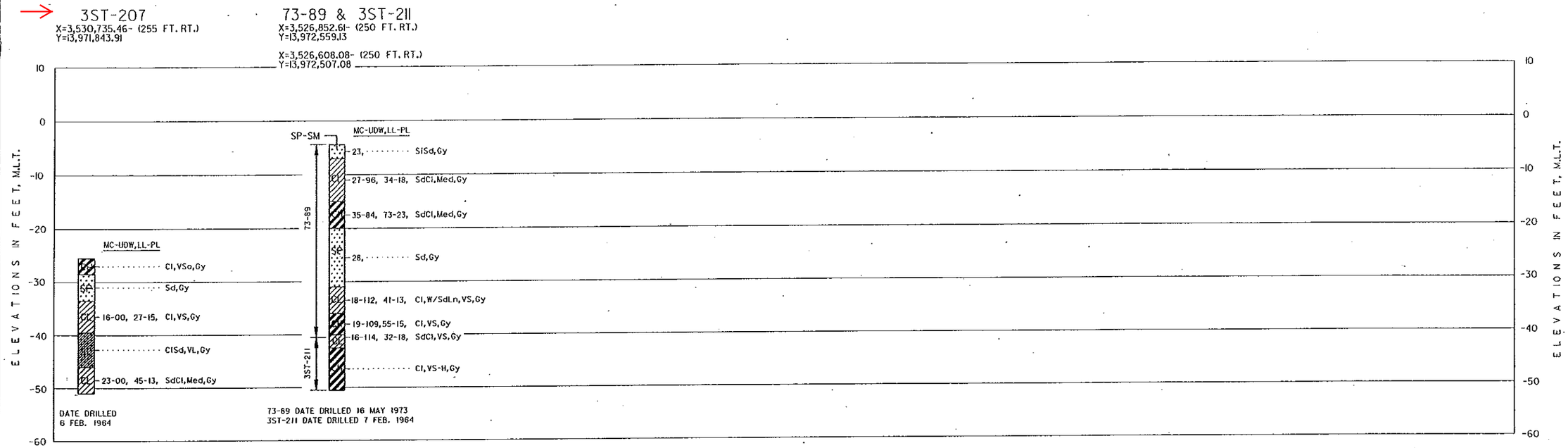

LABORATORY CLASSIFICATION

- CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
- CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, LEAN CLAYS. CL-ML CLAY-SILT OF LOW PLASTICITY.
- ML INORGANIC SILTS AND VERY FINE SANDS, WITH SLIGHT PLASTICITY.
- SC CLAYEY SANDS, SAND-CLAY MIXTURES.
- SM SILTY SANDS, SAND-SILT MIXTURES.
- SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES. SP-SM POORLY-GRADED SAND W/SILT.
- OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS.
- PT PEAT AND OTHER HIGHLY ORGANIC SOILS.

NOTES;

1. SOILS HAVE BEEN CLASSIFIED IN ACCORDANCE WITH ASTM D-2487-93 "CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL 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 IN PERCENT OF THE DRY WEIGHT, DRY DENSITY, LIQUID LIMIT, PLASTIC LIMIT AND BAR LINER SHRINKAGE. (MC-UDW,LL-PL) (B.L.S.*). FIGURES TO THE LEFT OF BORING LOGS ARE BLOWS PER FOOT PENETRATION FROM STANDARD PENETRATION TESTING.
3. BORINGS WERE DRILLED USING WET ROTARY DRILLING TECHNIQUES AND UNDISTURBED SAMPLES WHERE 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.

VISUAL CLASSIFICATIONS

Bn Brown(ish)	Ly Layer(s)	Si Silty
Calc Calcareous	Mat Material	Slks Slicken Sides
Cl Clay(ey)	Med Medium	Sms Seams
D Dense	Nod Nodules	So Soft
Dk Dark	N.T. No Test	Soil Soils
Frag Fragment(s)	Ol Olive	S Stiff
Gy Gray(ish)	Org Organic	Tn Tan(nish)
H Hard	Prt Parting(s)	V Very
Hl Highly	PT Peat	W.S. Water Surface
Lim Limonites	Rts Root(s)	W With
L Loose	Sd Sand(y)	Y Yellow(ish)
Ln Lense(s)	Sh Shell(y)	

NOTES: TO BORINGS

1. DIRECTIONS LEFT AND RIGHT OF CENTERLINE ARE AS VIEWED LOOKING UPSTREAM (TOWARD INCREASING STATION)
2. SEE DRAWING C-1 FOR BORING LOCATIONS.
3. SEE DRAWING F-6 FOR BORING NOTES AND LEGEND.

US Army Corps of Engineers
Galveston District

Rev.	Description	Date	By

Drawn by: E.S.R. Date: X
Designed by: X Scale: AS SHOWN
Checked by: X Approval Recommended:
Submitted by: MOHAMED M. MOUSSA, P.E. Chief, Geteh/Structure Section
DAVID B. CAMPBELL, P.E. Chief, Engineering Branch
Approved by: TERRY F. BAUTISTA, P.E. Chief, Engineering and Construction Division

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

PREPARED UNDER THE DIRECTION OF
STEVEN P. HAUSTEIN, COL, C.E.,
DISTRICT ENGINEER

SABINE NECHES WATERWAY, TEXAS
FEASIBILITY STUDY
WIDENING AND DEEPENING

LOGS OF BORINGS
3ST-207 TO 3ST-211

Drawing No.:
F-6