

✓ JUDLIN

✓ MARSALONE

✓ CINDY

✓ DE *DE*

_____ DE

_____ DG

_____ DL

_____ DR

_____ DW

_____ SUSPENSE

_____ RELEASE

_____ FILE

_____ DESTROY

A0006613

DISPOSITION FORM


For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL CELMN-ED-FS	SUBJECT Lake Pontchartrain, La. & Vicinity Hurricane Protection Project HLP - 17th St Outfall Canal
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TO C/Design Br FROM C/F&M Br DATE 30 June 87 CMT1
Mr. Vojkovich/aahr/1034
FV JR

1. Design sections for the 17th St. Outfall Canal GDM parallel protection plan are furnished in enclosures 1 thru 6. For the reach between Sta 647+00 to 663+00 Orleans side use the design section previously furnished for the Jefferson side Sta 647+00 to 663+00 by DF dated 24 April 87.
2. Pile capacity and subgrade modulus curves for the floodgates at Hammond Highway and Veterans Highway are furnished in enclosures 7 and 8.
3. The sheetpile cutoff wall tip elevation for Hammond Highway is EL-8.5 and for Veterans Highway it is EL-10.0.
4. The above information completes our design input for the GDM parallel protection plan.

8 Encls
CF: Des Svcs Br w/o Encls


RODNEY P. PICCIOLA
Chief, Foundations and Materials Branch

Romero

Received
July 9, 87

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TO C/Design Br

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CMT 1

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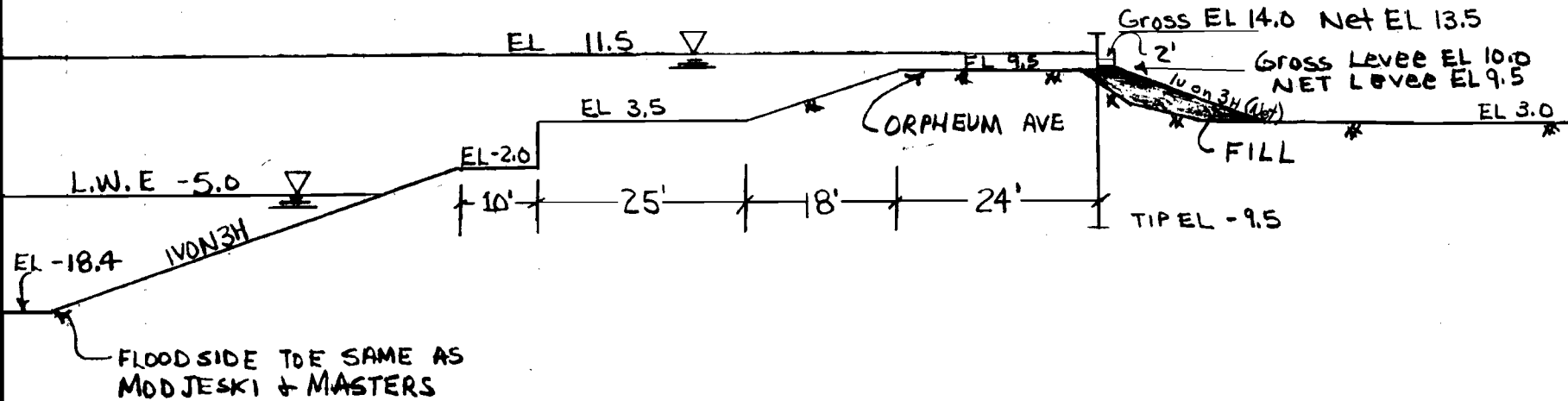
CF: Des Svcs Br w/o Encls

RODNEY P. PICCIOLA

Chief, Foundations and Materials Branch

61

STA 549+22 TO STA 552+70
JEFFERSON SIDE

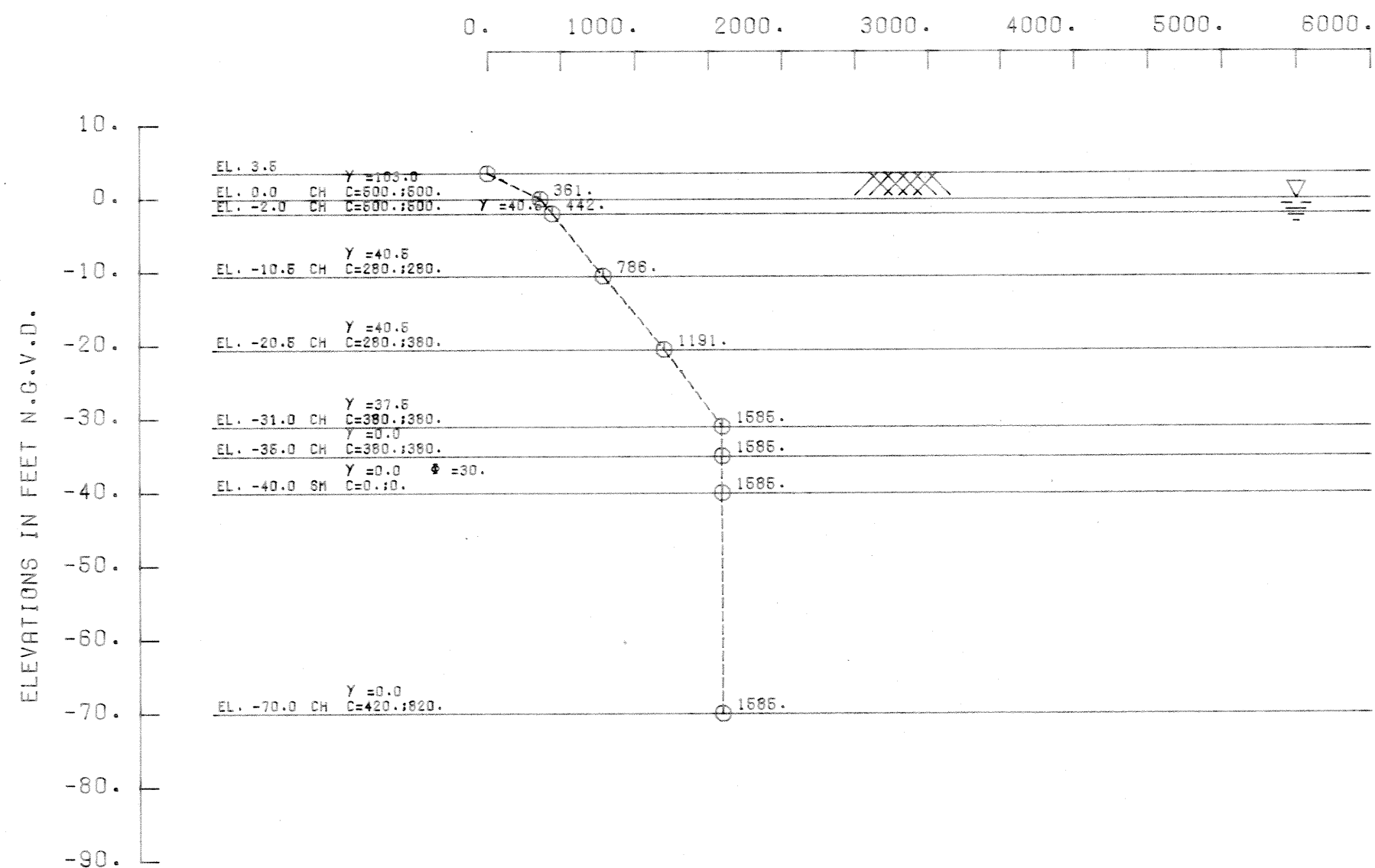


SCALE : 1" = 20'
Q FILE : Q 549 I J F.S. = 1.5
ELEVATION IN FEET NGVD

Revised information.
received July 9. 87

PROJECT	17th St Outfall Canal	PAGE	OF	CHECKED BY	DATE
SUBJECT	STA 549+22 TO STA 552+70			COMPUTER BY EJV	June 87

P_n - SOIL PRESSURE - PSF



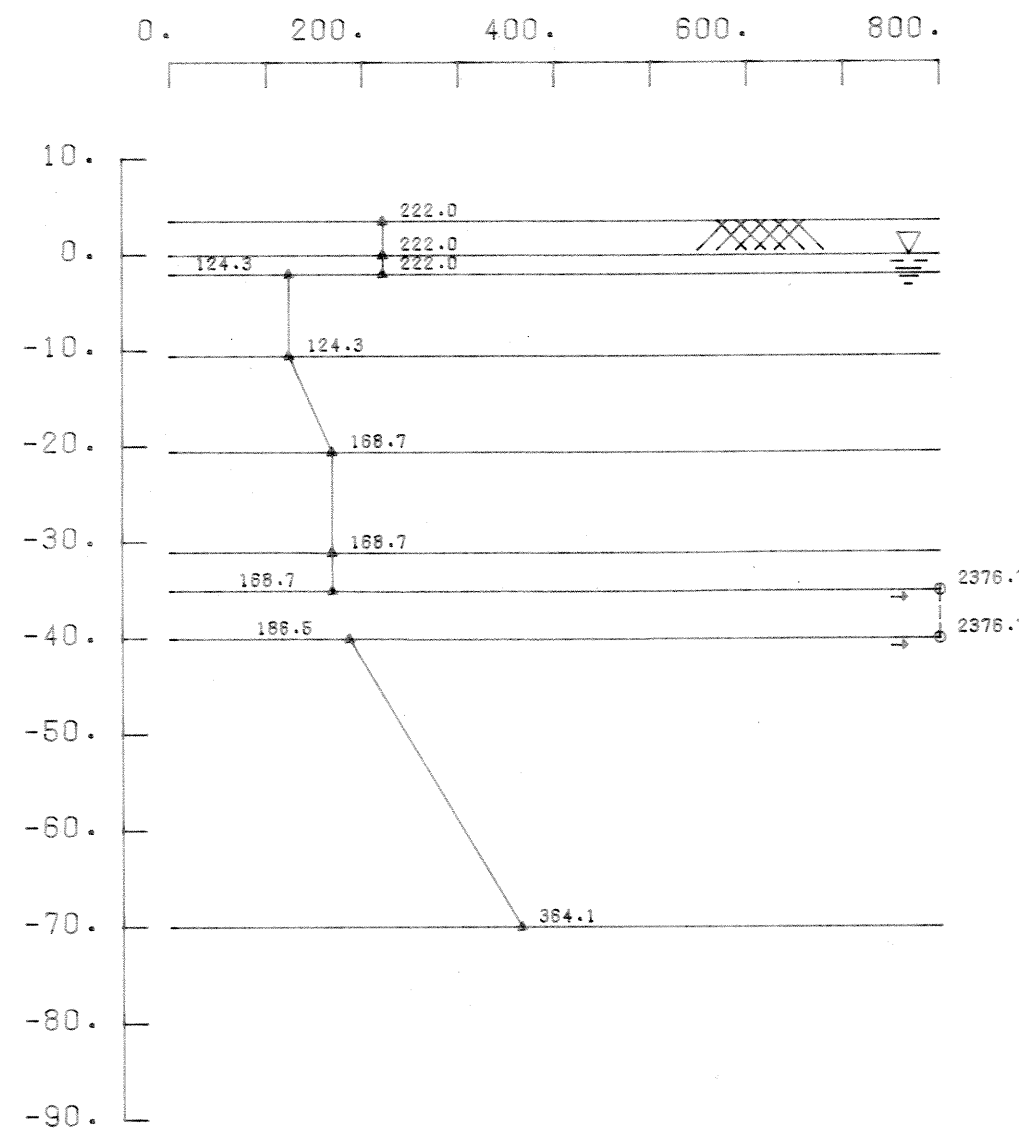
S-CASE
CH,CL- $\phi=23^\circ$
ML- $\phi=30^\circ$
SM,SP- $\phi=30^\circ, 33^\circ$

TYPICAL SOIL PROFILE

SOIL STRATIFICATION IS BASED ON GEOLOGIC PROFILE
SHEAR STRENGTH AND WET DENSITIES SEE PLATE

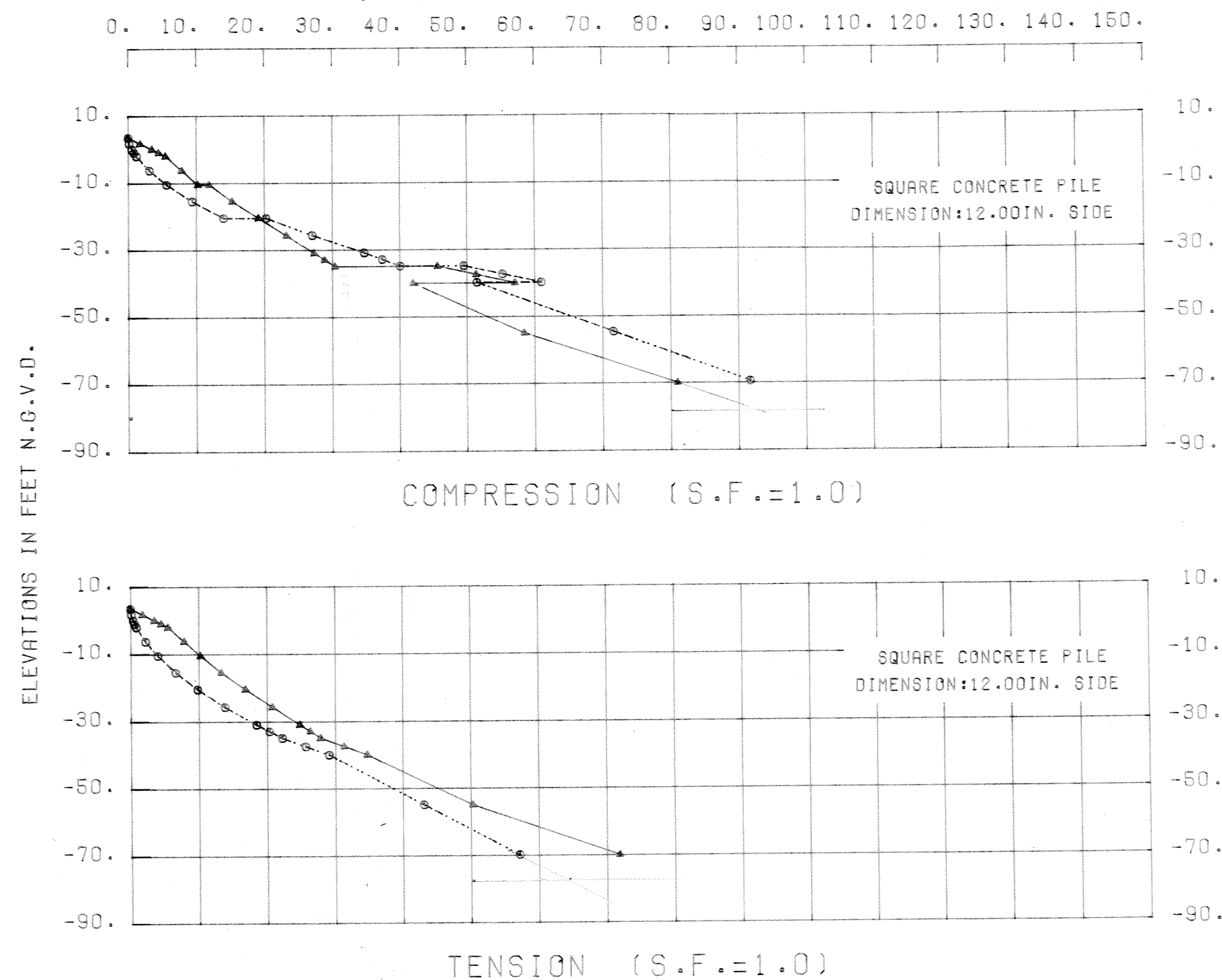
D	PILE SPACING IN DIRECTION OF LOADING
1.00	8B
0.85	7B
0.70	6B
0.55	5B
0.40	4B
0.25	3B
C	LOADING CONDITION
1.00	INITIAL LOADING
0.30	CYCLIC LOADING

K_{HB} (PSI)



NOTES: $K_H = \alpha K_1/B = (0.2222 qu/B)(C)(D)$ COHESIVE
 $\alpha = 0.4$ = Factor of material properties of soil and pile
 K_1 = Modulus of subgrade reaction for test plate (pcf)
 B_1 = Width or diameter of test plate (in)
 $K_1 B_1 = 80 qu$ (pcf) = $0.5556 qu$ (psi)
 $qu = 2 \cdot c$ = Unconfined compressive strength (pcf)
 C = Reduction for cyclic loading-not applicable
 D = Group effect reduction factor
 B = Width of pile measured at right angles to the direction of displacement (in)
 $K_H = (nh)(Z/B)(C)(D)$ COHESIONLESS
 nh = Coefficient of horizontal subgrade reaction (pcf)
 Z = Depth below equivalent ground surface (in)

ULTIMATE LOAD (TONS)



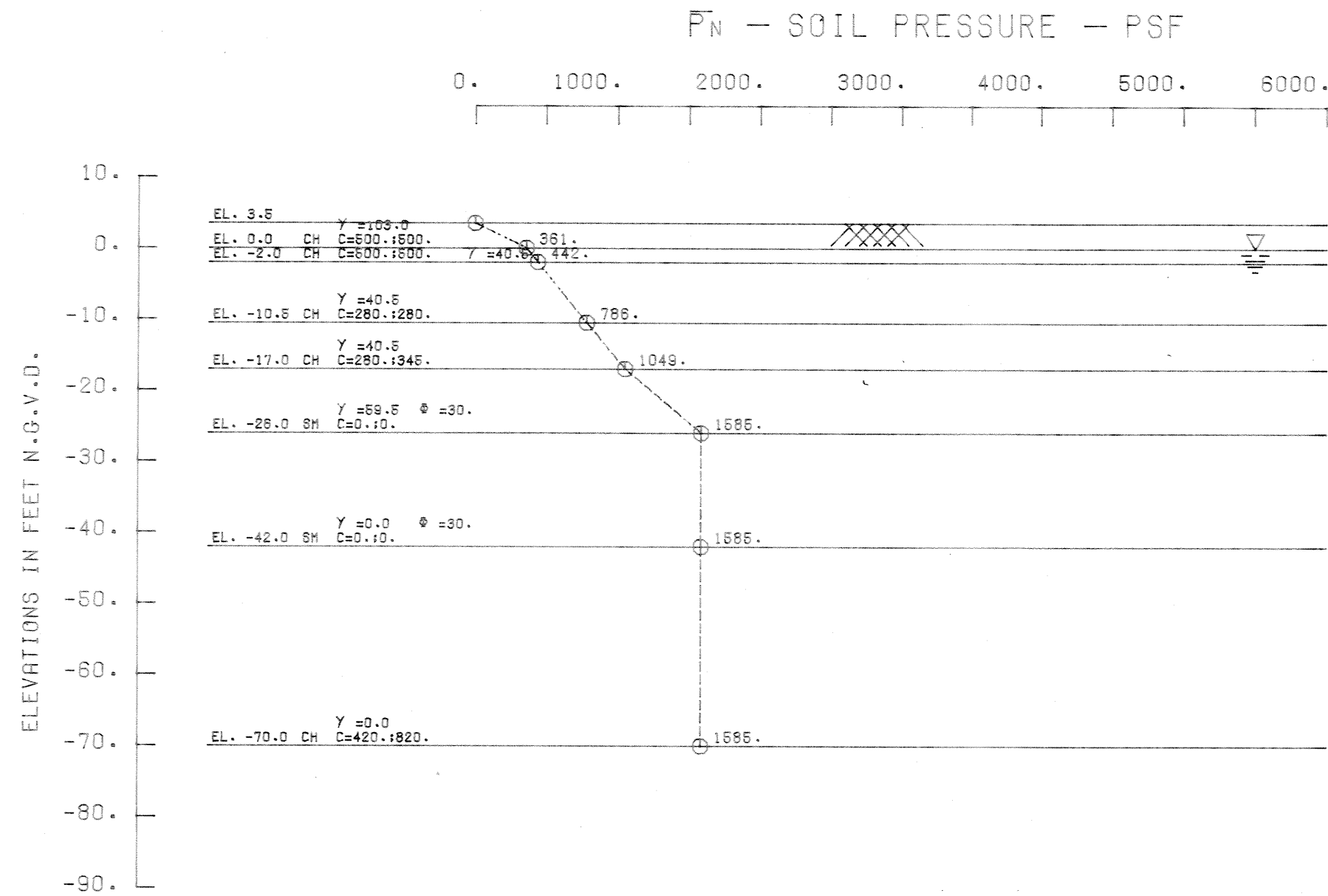
THE FACTOR SHOWN, (MODULUS OF HORIZONTAL SUBGRADE K_h , TIMES THE PILE WIDTH IN INCHES (B), MEASURED AT RIGHT ANGLES TO THE DIRECTION OF DISPLACEMENT) MUST BE MODIFIED BY A REDUCTION FACTOR FOR THE EFFECT OF GROUP ACTION (D) AND A REDUCTION FACTOR FOR CYCLIC LOADING (C) EX: $K_h = \frac{0.2222 qu (C)(D)}{(B)}$

NOTE: ALLOWABLE CAPACITIES SHOULD BE DETERMINED INCORPORATING F.S.=2.0 WITH PILE TEST OR F.S.=3.0 WITHOUT PILE TEST.

--- S-CASE
— Q-CASE

17TH ST OUTFALL CANAL ODM
HAMMOND HIGHWAY FLOODGATE
12" SQUARE PRESTRESSED CONCRETE PILES
PILE CAPACITY CURVES

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW ORLEANS
JUNE 1967

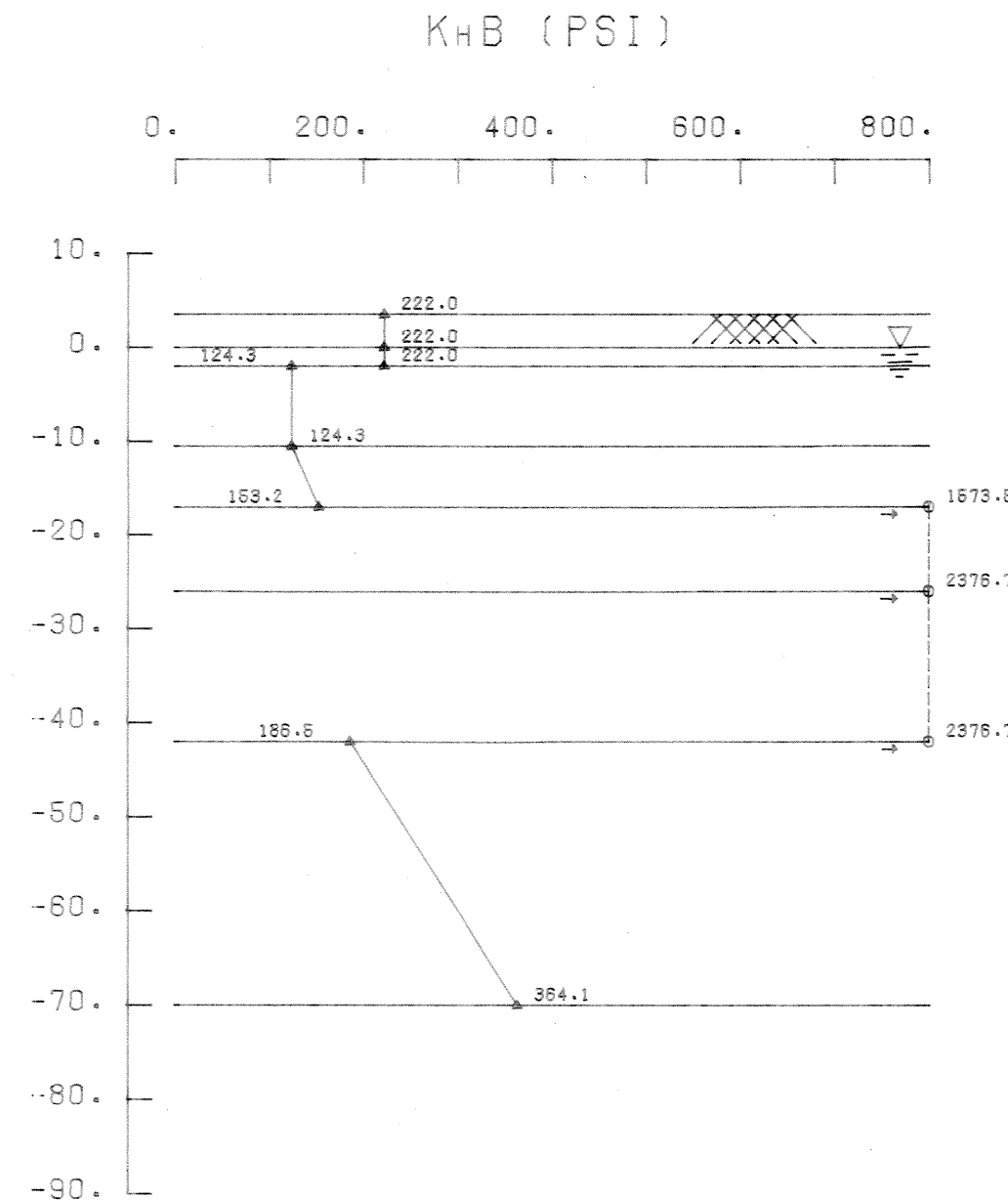


S-CASE
CH, CL - phi = 23°
ML - phi = 30°
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TYPICAL SOIL PROFILE

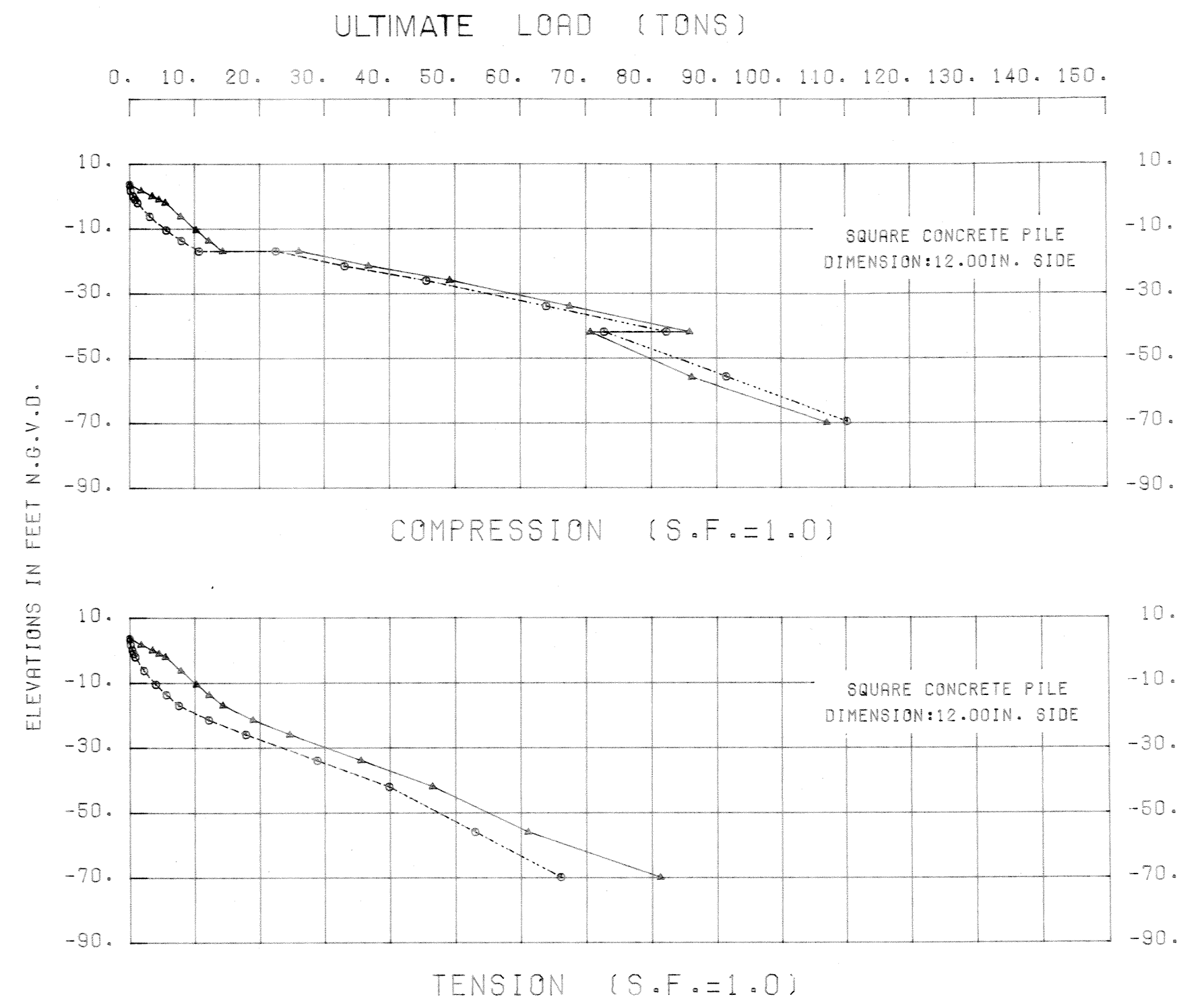
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SHEAR STRENGTH AND WET DENSITIES
SEE PLATE

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17TH ST OUTFALL CANAL ODM
VETERANS HIGHWAY FLOODGATE
12" SQUARE PRESTRESSED CONCRETE PILES
PILE CAPACITY CURVES

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS

NEW ORLEANS
JUNE 1987