

ADD 7014

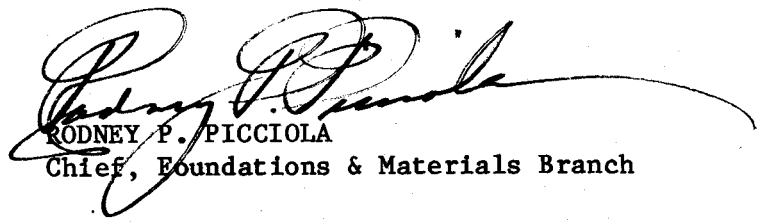
DISPOSITION FORM

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

REFERENCE OR OFFICE SYMBOL LMNED-FS	SUBJECT Lake Pontchartrain, La. & Vicinity, Hurricane Protection Project - Orleans Parish Lakefront Levee West of IHNC - High Level Plan GDM
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TO C/Design Br	FROM C/F&M Br	DATE 4 Jun 84	CMT 1 Mr. Estrada/mlm/1035 RE, JR
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Inclosed for cost estimating purposes and for inclusion in the high level plan GDM, subject as above, are the alternative design sections. Preliminary sections have been previously furnished to Design Branch.


 RODNEY P. PICCIOLA
 Chief, Foundations & Materials Branch

1 Incl (2 COPIES)
as

CF: w/o Incl.
 c/ Proj Mgmt Br
 c/ Des Svcs Br

LMNED-FS

Lake Pontchartrain, La. & Vicinity, Hurricane Protection
Project - Orleans Parish Lakefront Levee West of IHNC -
High Level Plan GDM

C/Design Br

C/F&M Br

4 Jun 84

Mr. Estrada/mlm/1035

Inclosed for cost estimating purposes and for inclusion in the high level plan GDM, subject as above, are the alternative design sections. Preliminary sections have been previously furnished to Design Branch.

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as

RODNEY P. PICCIOLA
Chief, Foundations & Materials Branch

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c/ Proj Mgmt Br
c/ Des Svcs Br.

STATIONING FROM THE VICINITY OF THE SEABROOK BRIDGE
TO THE 17TH STREET CANAL

1. Sheet 1 of 12, Levee
 - a. Sta 2+54.51 W/L to sta 6+46 W/L.
 - b. Sta 6+56 W/L to sta 7+02.87 W/L.
2. Sheet 2 of 12, Levee, I-wall on Levee
Sta ~~14+31.42~~ ^{26+32 B/L.} W/L to sta ~~15+85.33~~ W/L. GATE NO. 4
3. Sheet 3 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta ~~17+18.46~~ ^{20+80 B/L.} W/L to sta 42+33.93 B/L.
4. Sheet 4 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta 42+33.93 B/L to sta 79+18.05 B/L.
5. Sheet 5 of 12, Levee, I-wall on Levee, Floodwall
Sta 79+18.05 B/L to sta 102+20 B/L.
6. Sheet 6 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta 136+13.19 B/L to sta 161+00.18 B/L.
7. Sheet 7 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta 161+00.18 B/L to sta 196+91.53 B/L.
8. Sheet 8 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta 199+41.52 B/L to sta 246+37.71 B/L.
9. Sheet 9 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta 250+72.09 B/L to sta 289+49 B/L.
10. Sheet 10 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta 289+49 B/L to sta 303+51.39 B/L.
11. Sheet 11 of 12, Levee, I-wall on Levee, I-wall on Levee with Barge Berm
Sta 303+51.39 B/L to sta 316+50 B/L.
12. Sheet 12 of 12, Levee
Sta 336+50 B/L to sta 340+50 B/L.

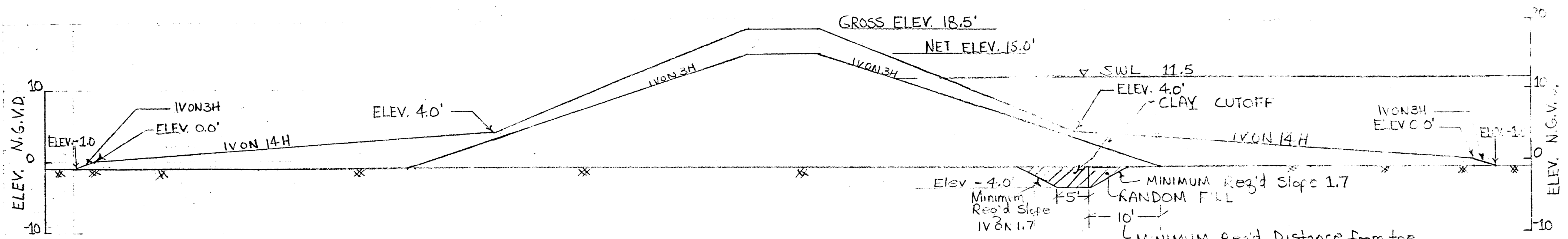
Incl 1

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

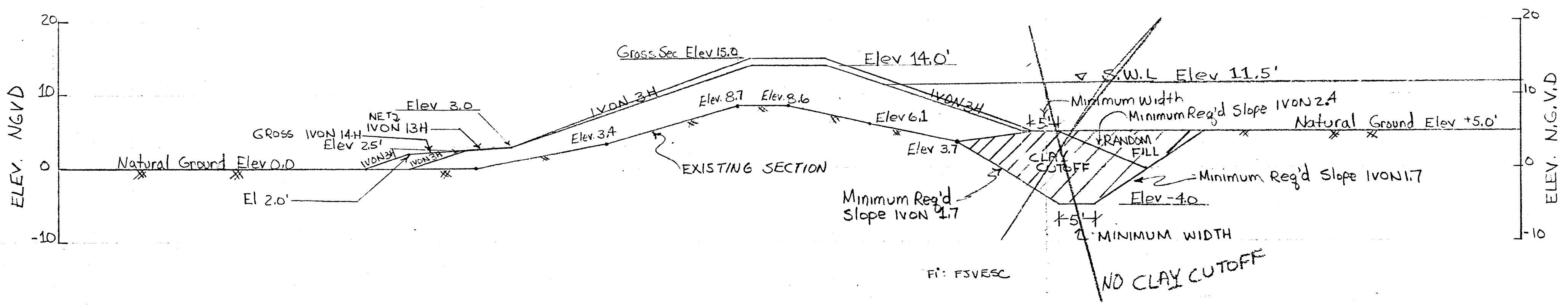
PROTECTED SIDE

STA 6+56 W/L ± TO STA 7+07.87 W/L

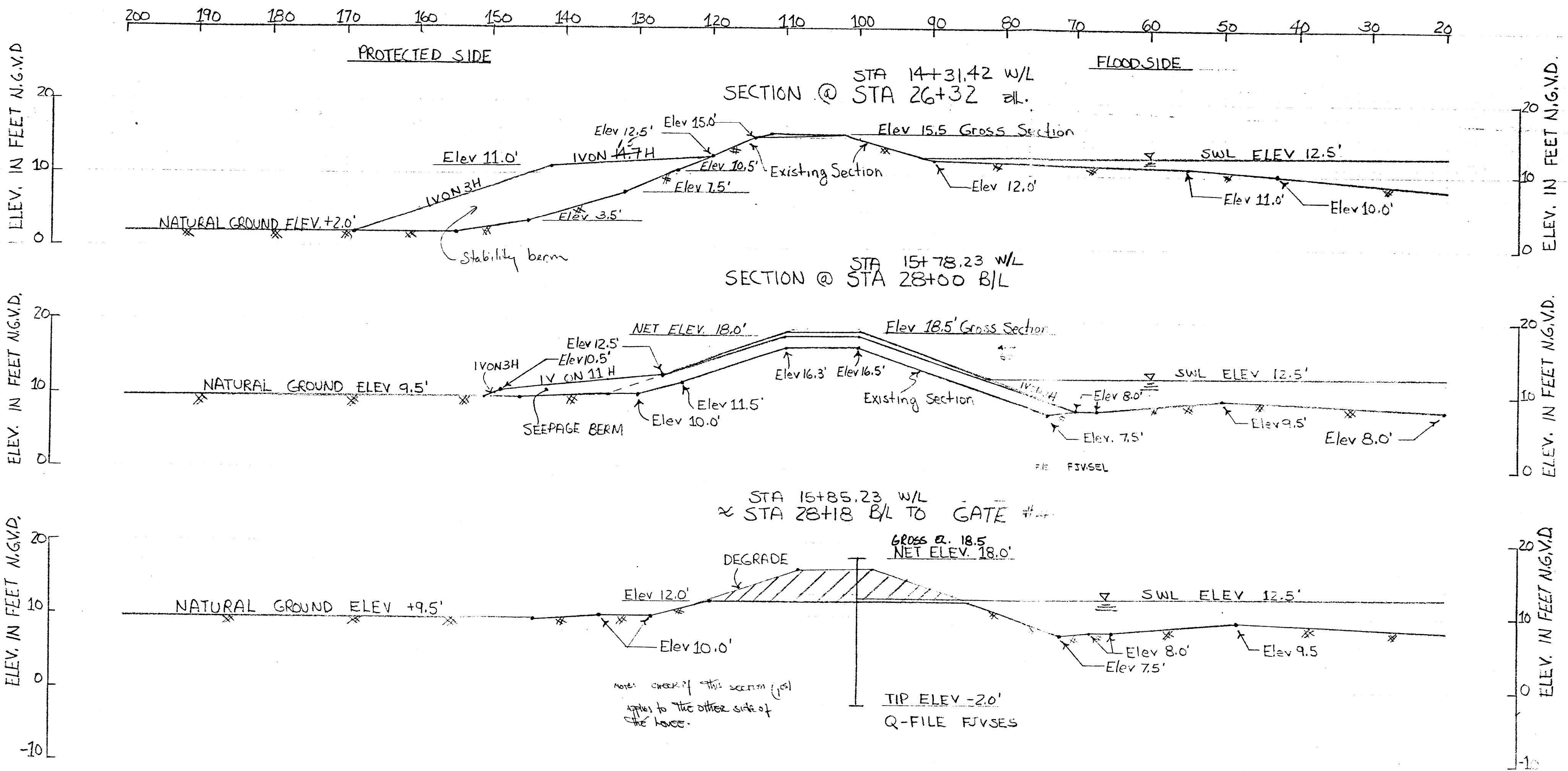
FLOODSIDE



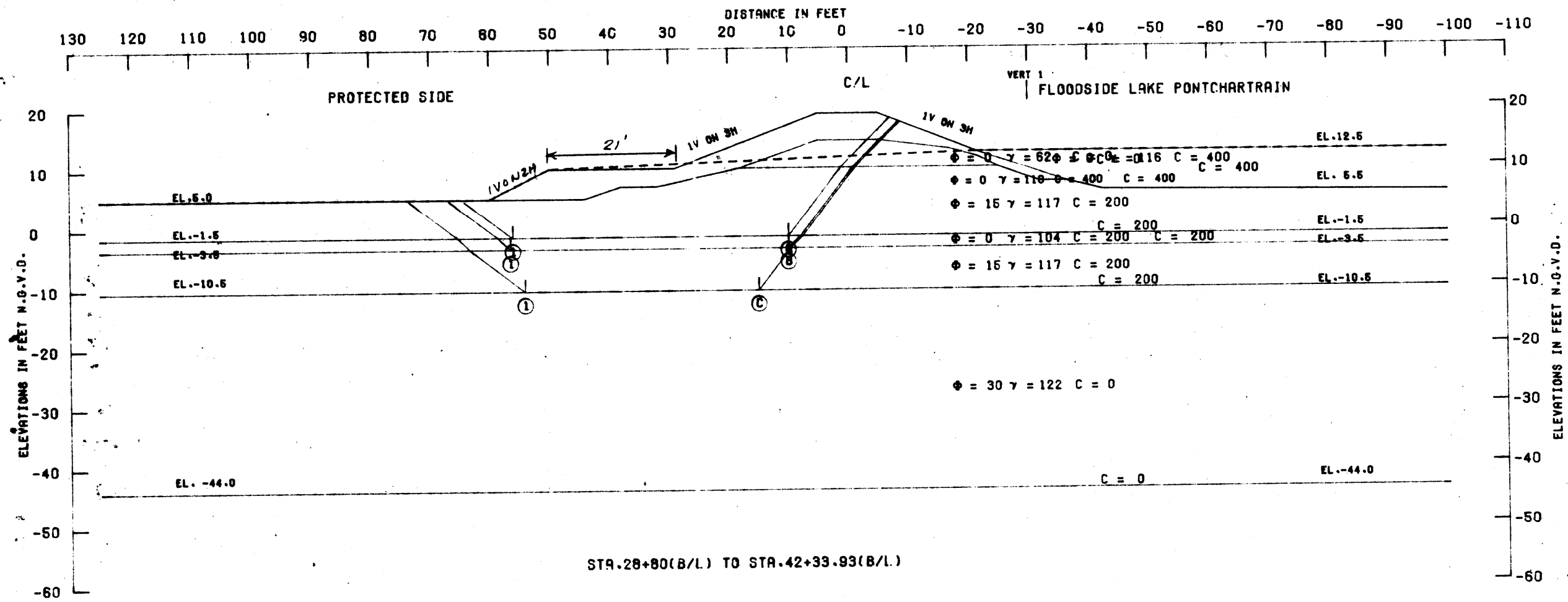
STA 1+51.07 W/L TO STA 6+36 W/L ±



ORLEANS LAKEFRONT
WEST OF IHNC
SEABROOK AREA
Feb 84 LMNED-FS



ORLEANS PARISH LAKEFRONT
 HIGH LEVEL PLAN
 STA 14+31.42 W/L
 STA 26+32 B/L
 TO
 GATE #4
 LMNED-FS MARCH 84



STA. 28+80(B/L) TO STA. 42+33.93(B/L)

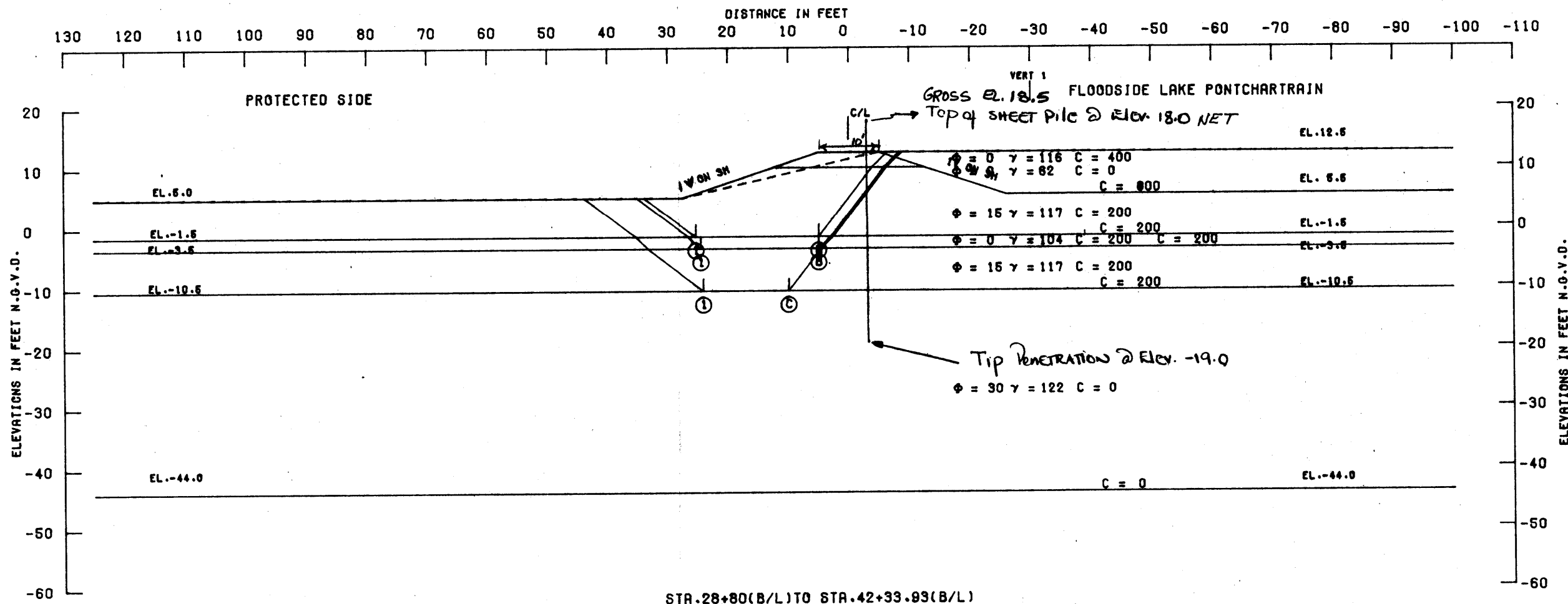
NOTES

- φ -- ANGLE OF INTERNAL FRICTION, DEGREES
- c -- UNIT COHESION, P.S.F.
- ∇ -- STATIC WATER SURFACE
- D -- HORIZONTAL DRIVING FORCE IN POUNDS
- R -- HORIZONTAL RESISTING FORCE IN POUNDS
- A -- AS A SUBSCRIPT, REFERS TO ACTIVE WEDGE
- B -- AS A SUBSCRIPT, REFERS TO CENTRAL BLOCK
- P -- AS A SUBSCRIPT, REFERS TO PASSIVE WEDGE

$$\text{FACTOR OF SAFETY} = \frac{R_A + R_B + R_P}{D_A - D_P}$$

ASSUMED FAILURE SURFACE		RESISTING FORCES			DRIVING FORCES		SUMMATION OF FORCES		FACTOR OF SAFETY
NO.	ELEV.	R _A	R _B	R _P	D _A	-D _P	RESISTING	DRIVING	
(A)	(1) -1.5	15632	9224	4138	23113	2789	28995	20324	1.430
(B)	(1) -3.5	16145	9307	4821	27913	4517	30373	23386	1.300
(C)	(1) -10.5	22599	19698	11777	46565	14567	54074	31998	1.690

LAKE Pont. LA. & Vicinity Hurricane Protection
 Project - ORLEANS PARISH LAKEFRONT LEVEE
 WEST OF INHC HIGH LEVEL PLAN GDM
 BIL. STA. 28+80 TO BIL. STA. 42+33.9
 LMNED-FS



STA. 28+80(B/L) TO STA. 42+33.93(B/L)
 NOTE: CASE OF I WALL

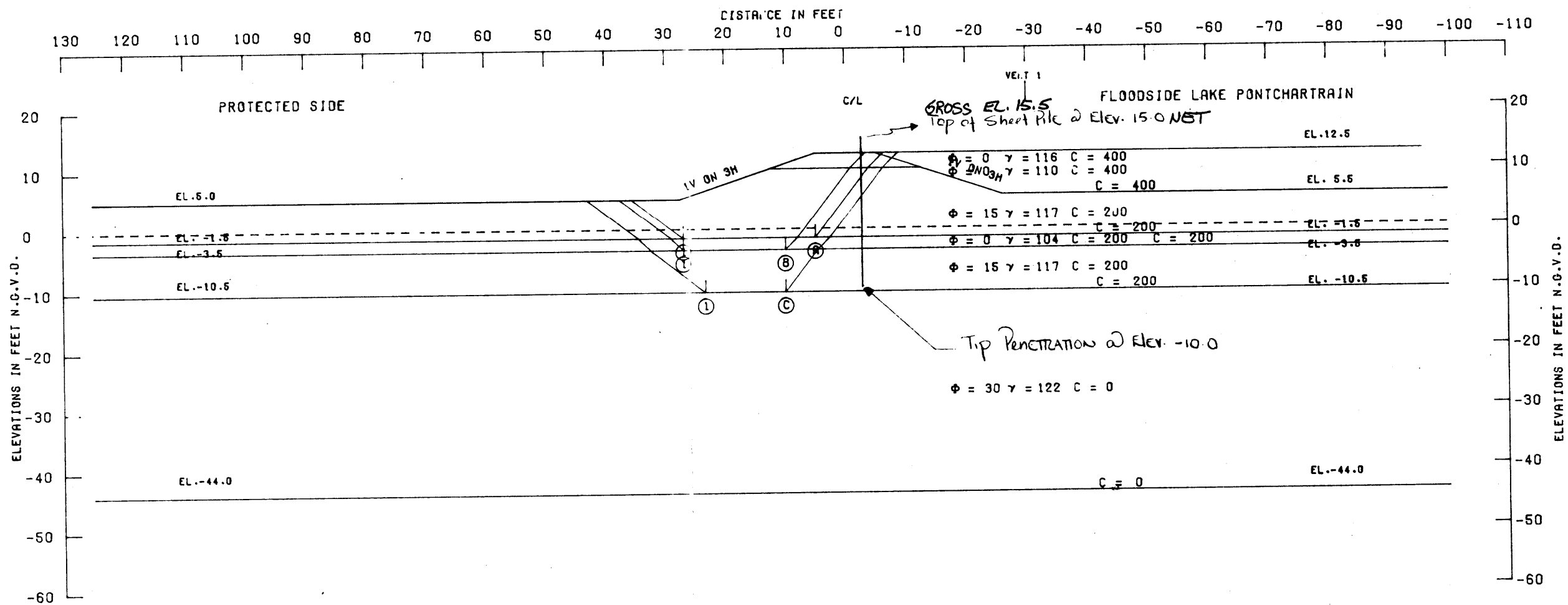
NOTES

- φ -- ANGLE OF INTERNAL FRICTION, DEGREES
- c -- UNIT COHESION, P.S.F.
- Σ -- STATIC WATER SURFACE
- D -- HORIZONTAL DRIVING FORCE IN POUNDS
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- A -- AS A SUBSCRIPT, REFERS TO ACTIVE WEDGE
- B -- AS A SUBSCRIPT, REFERS TO CENTRAL BLOCK
- P -- AS A SUBSCRIPT, REFERS TO PASSIVE WEDGE

$$\text{FACTOR OF SAFETY} = \frac{R_A + R_B + R_P}{D_A - D_P}$$

ASSUMED FAILURE SURFACE		RESISTING FORCES			DRIVING FORCES		SUMMATION OF FORCES		FACTOR OF SAFETY	
NO.	ELEV.	R _A	R _B	R _P	D _A	-D _P	RESISTING	DRIVING		
(A)	①	-1.6	7760	4069	4171	11420	2641	16000	8879	1.800
(B)	①	-3.5	8049	3906	4971	14836	4369	16926	10466	1.620
(C)	①	-10.5	13336	6889	11712	29954	14018	31937	15936	2.000

LAKE PONT. LA. & VICINITY HUMANE
 PROTECTION PROJECT - ORLEANS PARISH
 LAKEFRONT LEVEE WEST OF IHNC
 HIGH LEVEL PLAN GDM
 BIL. STA. 28+80 TO BIL. STA. 42+33.9
 LMWD-FS



STA. 28+80(B/L) TO STA. 42+33.93(B/L)
 NOTE: CASE OF I WALL AND BARGE BERM

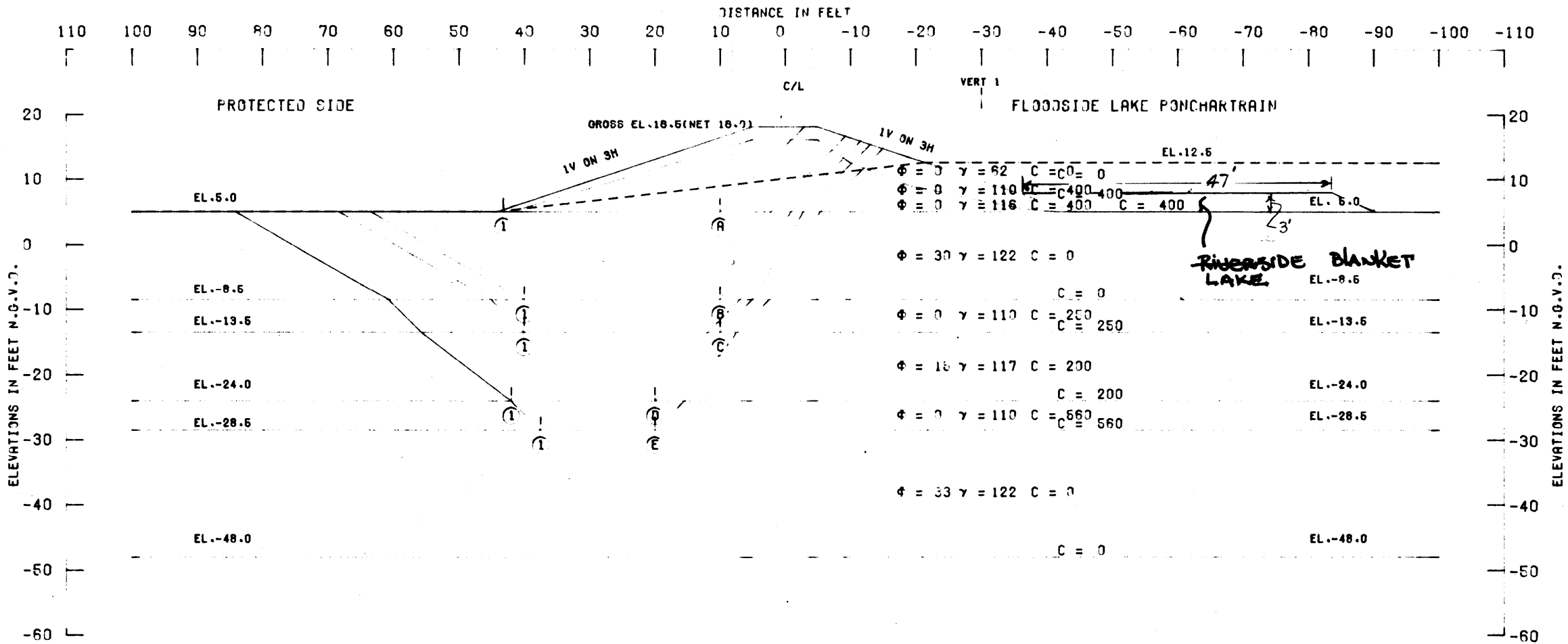
NOTES

- φ -- ANGLE OF INTERNAL FRICTION, DEGREES
- C -- UNIT COHESION, P.S.F.
- ∇ -- STATIC WATER SURFACE
- D -- HORIZONTAL DRIVING FORCE IN POUNDS
- R -- HORIZONTAL RESISTING FORCE IN POUNDS
- A -- AS A SUBSCRIPT, REFERS TO ACTIVE WEDGE
- B -- AS A SUBSCRIPT, REFERS TO CENTRAL BLOCK
- P -- AS A SUBSCRIPT, REFERS TO PASSIVE WEDGE

$$\text{FACTOR OF SAFETY} = \frac{R_A + R_B + R_P}{D_A - D_P}$$

ASSUMED FAILURE SURFACE		RESISTING FORCES			DRIVING FORCES		SUMMATION OF FORCES		FACTOR OF SAFETY
NO.	ELEV.	R _A	R _B	R _P	D _A	-D _P	RESISTING	DRIVING	
(A) (1)	-1.5	10052	4400	5063	11430	2475	19520	8955	1.180
(B) (1)	-3.5	10758	3400	5865	14372	4205	20023	10167	1.073
(C) (1)	-10.5	17956	8195	14297	30038	14111	40458	15927	1.540

LAKE PONTCHARTRAIN Vicinity Hurricane Protection Project - ORLEANS PARISH LAKEFRONT LEVEE WEST OF IHNC HIGH LEVEL PLAN GDM
 BILL STA. 28+80 BILL. STA. 42+33.9
 LMNCD-F5



NOTES

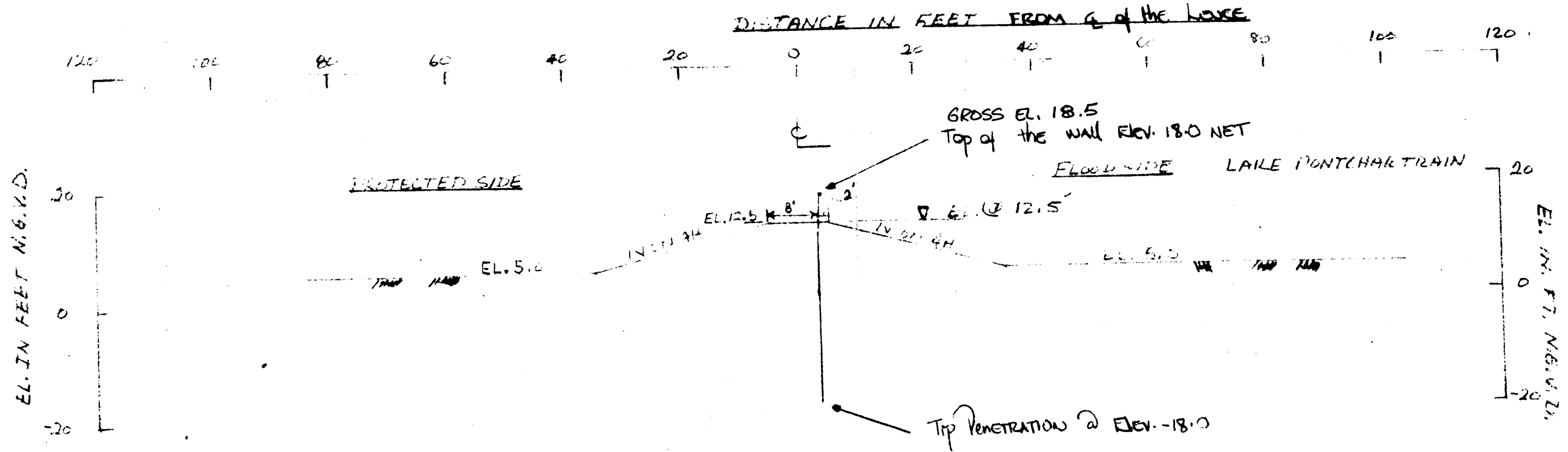
- φ -- ANGLE OF INTERNAL FRICTION, DEGREES
- C -- UNIT COHESION, P.S.F.
- ∇ -- STATIC WATER SURFACE
- D -- HORIZONTAL DRIVING FORCE IN POUNDS
- R -- HORIZONTAL RESISTING FORCE IN POUNDS
- A -- AS A SUBSCRIPT, REFERS TO ACTIVE WEDGE
- B -- AS A SUBSCRIPT, REFERS TO CENTRAL BLOCK
- P -- AS A SUBSCRIPT, REFERS TO PASSIVE WEDGE

$$\text{FACTOR OF SAFETY} = \frac{R_A + R_B + R_P}{D_A - D_P}$$

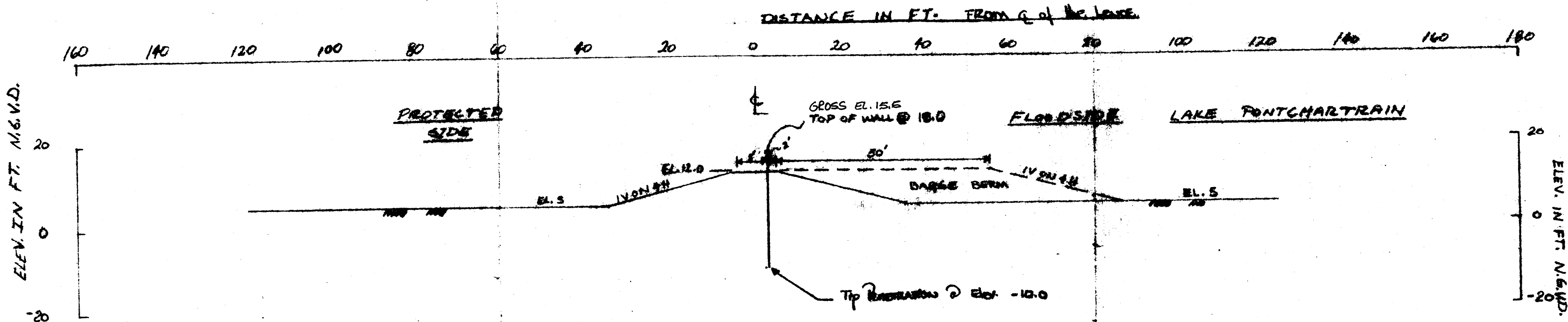
ASSUMED FAILURE SURFACE		RESISTING FORCES			DRIVING FORCES		SUMMATION OF FORCES		FACTOR OF SAFETY
NO.	ELEV.	R _A	R _B	R _P	D _A	-D _P	RESISTING	DRIVING	
(A)	(1) 5.0	10400	9120	150	9174	3	19570	9171	2.140
(B)	(1) -8.5	23322	7500	10799	39654	11288	41621	28366	1.470
(C)	(1) -13.5	25057	7492	13943	55879	21027	45892	34852	1.320
(D)	(1) -24.0	38208	12331	28532	96732	50298	79071	46434	1.700
(E)	(1) -28.5	42748	9803	33572	116997	67544	86123	51453	1.670

LAKE Pont. LA. & Vicinity Hurricane Protection Project - Orleans Parish Lakefront Levees west of IHNC High Level Plan GDM
 BIL STA. 12+33.9 to BIL Sta. 19+18.05

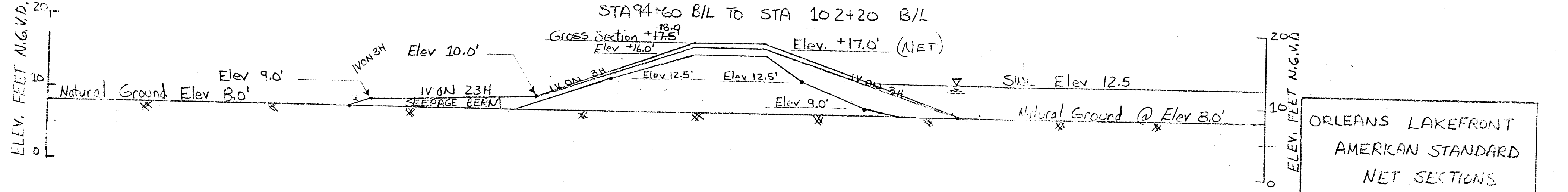
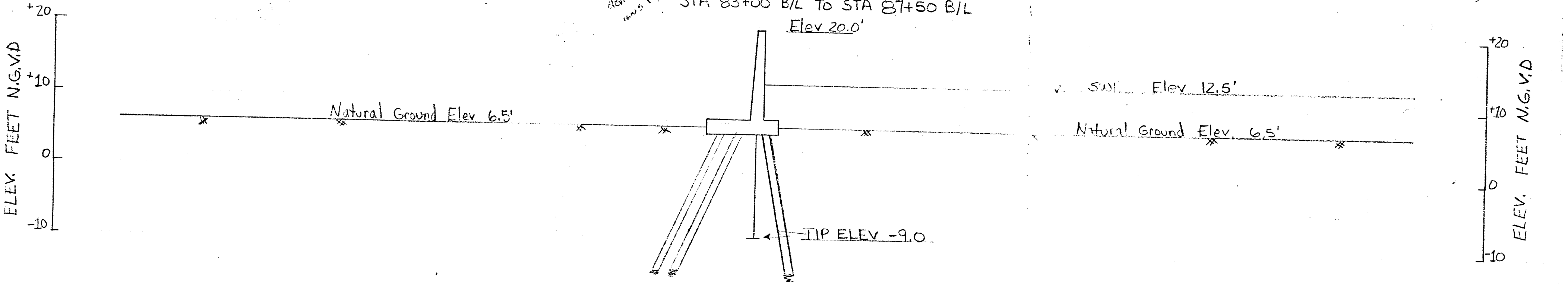
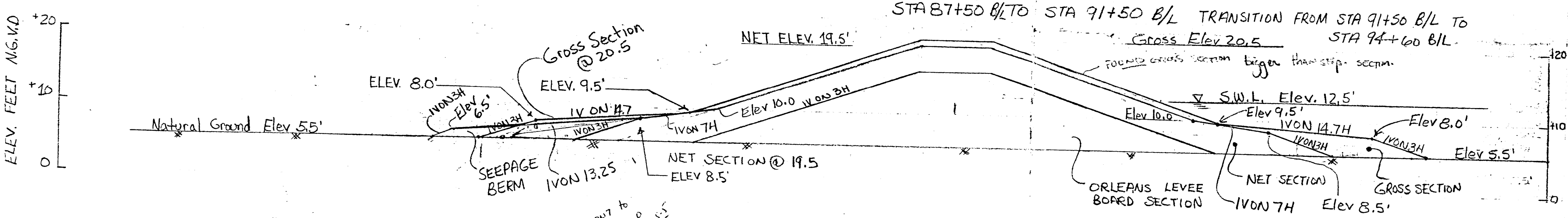
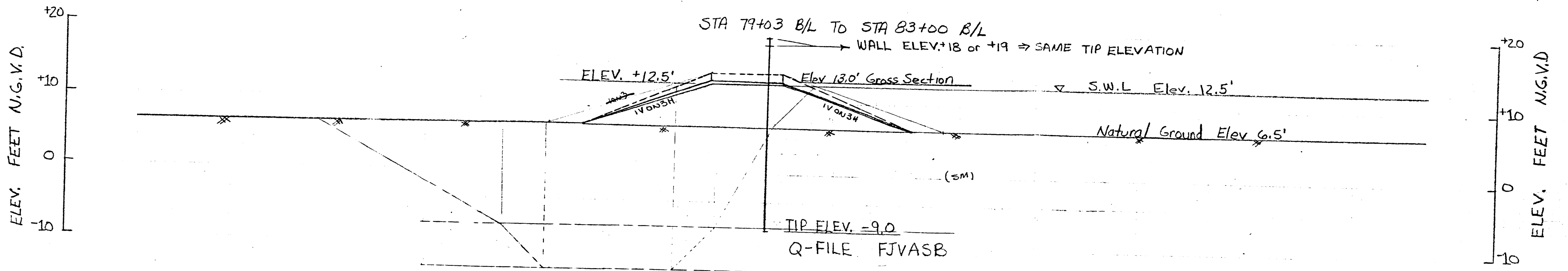
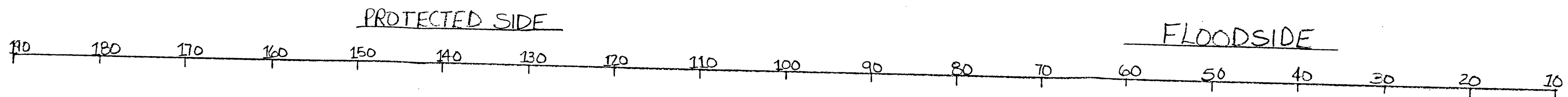
LAWED-FS



LAKE Pont. LA ; Vicinity Hurricane Protection
 Project - ORLEANS PARISH LAKEFRONT LEVEE WEST
 of IHNC High Level Plan GDM
 BIL. STA. 42+33.9 to BIL. STA. 79+18.05
 LEVEE with I-wall
 LMNED- FS

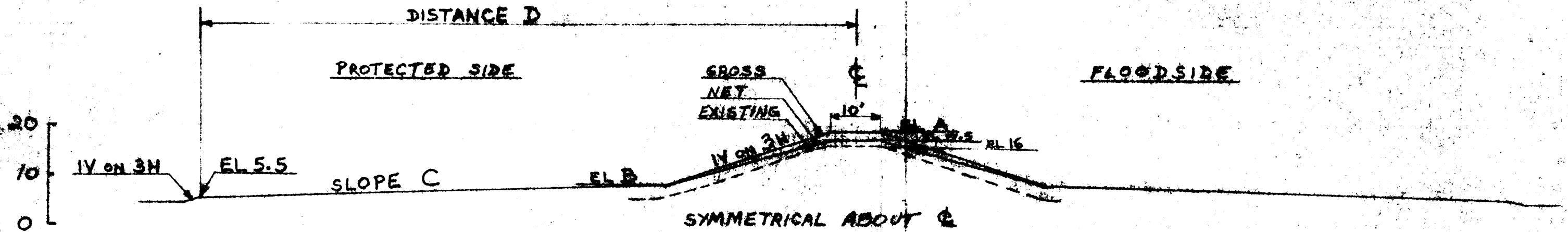


LAKE Pont. La / Vicinity Hurricane Protection
 Project - ORLEANS Parish Lakefront Levee
 West of IHAC High Level Pile GDM
 BL. STA. 42133.9 to BL. STA. 79118.06
 I-WALL ON LEVEE with BARGE BERM
 LMNCD-F5



ORLEANS LAKEFRONT
 AMERICAN STANDARD
 NET SECTIONS
 Feb 84 LMNED-FS

ELEVATIONS IN FEET M.G.V.D.

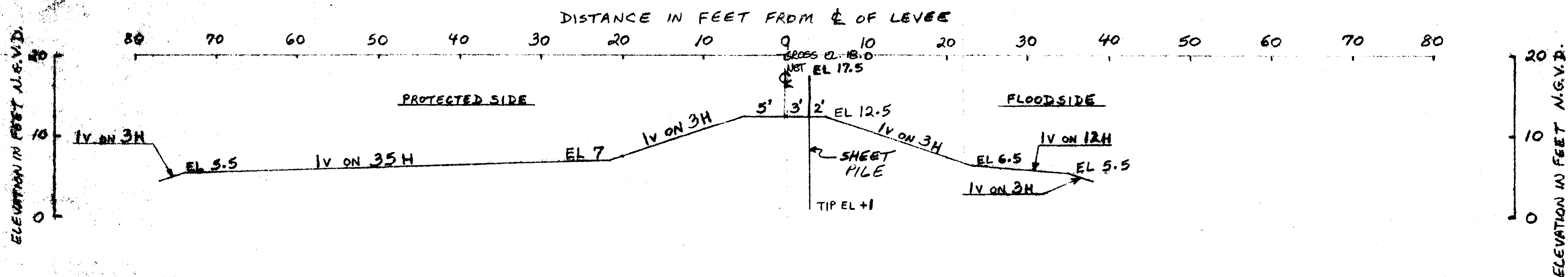


ELEVATIONS IN FEET M.G.V.D.

B/L STA 136+13.19 TO B/L STA 161+00.18

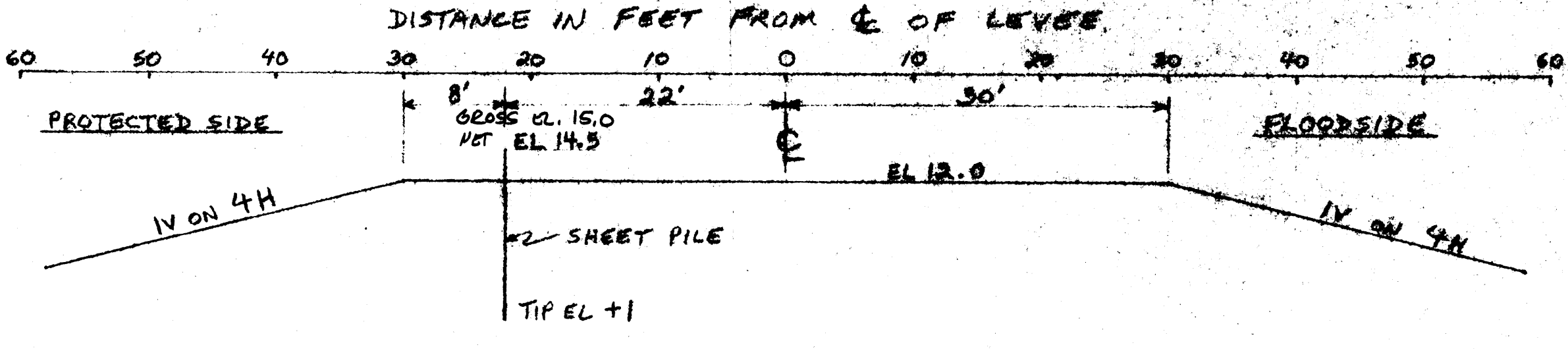
<u>EL A</u>	<u>EL B</u>	<u>SLOPE C</u>	<u>DISTANCE D</u>
18.0	7.25	1V ON 40H	107
18.5	7.75	1V ON 36H	118
19.0	8.00	1V ON 37H	130

LAKE PONT. LA. & VICINITY HURRICANE PROTECTION
 PROJECT ORLEANS PARISH LAKEFRONT LEVEE WEST
 OF IHNC HIGH LEVEL PLAN GDM
B/L STA 136+13.19 TO B/L STA 161+00.18



LAKE PONT. LA & VICINITY HURRICANE PROTECTION
 PROJECT ORLEANS PARISH LAKEFRONT LEVEE WEST
 OF IHNC HIGH LEVEL PLAN GDM
 B/L STA 136+13.19 TO B/L STA 161+00.18
 LEVEE W/ I-WALL

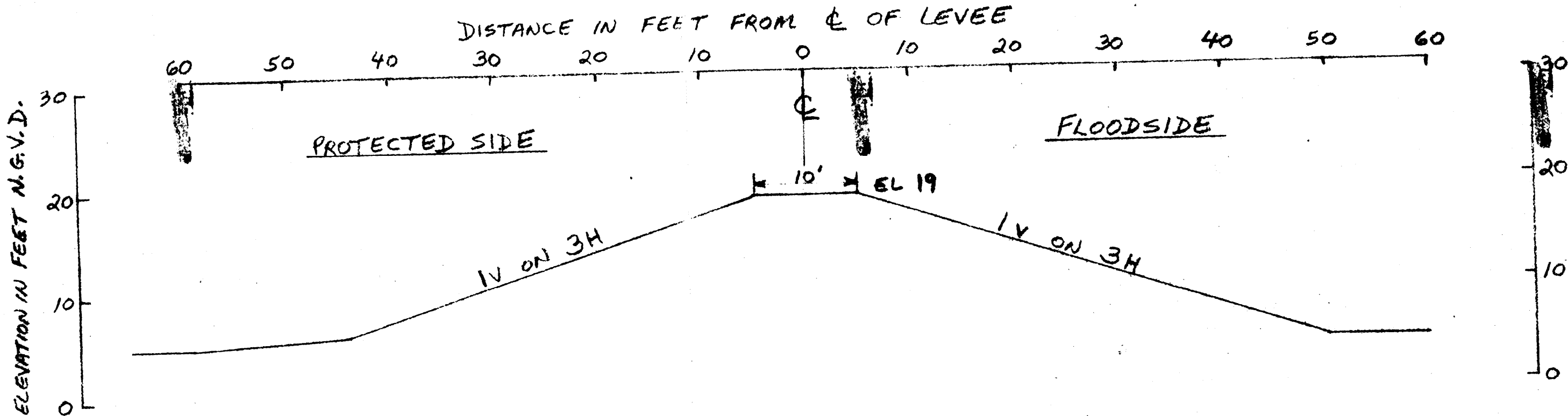
ELEVATION IN FEET N.G.V.D.



ELEVATION IN FEET N.G.V.D.

LAKE PONT. LA & VICINITY HURRICANE PROTECTION
 PROJECT ORLEANS PARISH LAKEFRONT LEVEE WEST
 OF IHNC HIGH LEVEL PLAN GDM
 B/L STA 136+13.19 TO B/L STA 161+00.18

LEVEE W/ I-WALL & BARGE BERM



LAKE PONT. LA. & VICINITY HURRICANE PROTECTION
 PROJECT ORLEANS PARISH LAKEFRONT LEVEE WEST
 OF IHNC HIGH LEVEL PLAN GDM
 B/L STA 161+00.18 TO B/L STA 196+91.33

ELEVATION IN FEET N.G.V.D.

20
10
0

DISTANCE IN FEET FROM C OF LEVEE

30 20 10 0 10 20 30

PROTECTED SIDE

FLOODSIDE

GROSS EL. 18.5
NET EL 18

5' 5"
EL 12.5

1V ON 3H

1V ON 3H

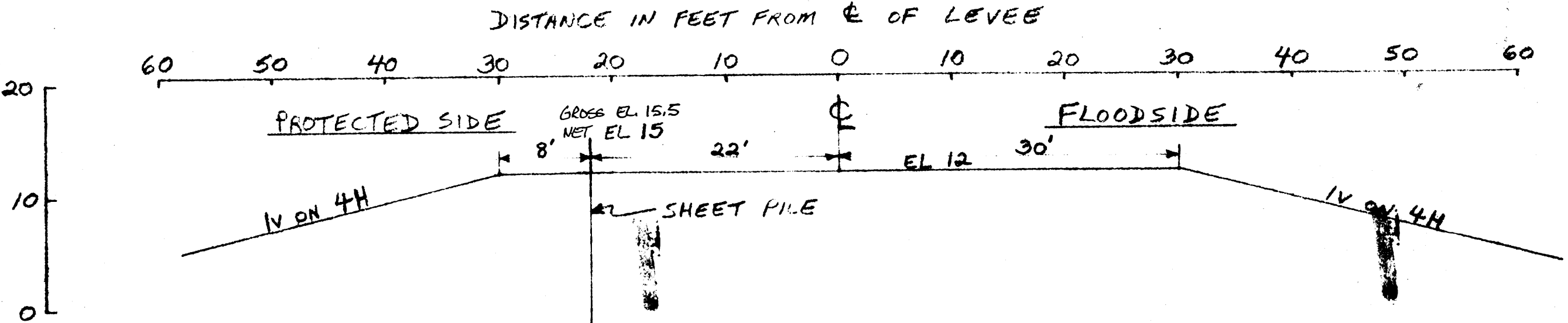
TIPEL -13

20
10
0

ELEVATION IN FEET N.G.V.D.

LAKE PONT. LA. & VICINITY HURRICANE PROTECTION
PROJECT ORLEANS PARISH LAKEFRONT LEVEE WEST
OF IHNC HIGH LEVEL PLAN GDM
B/L STA 161+00.18 TO B/L STA 196+91.33
LEVEE W/ I-WALL

ELEVATION IN FEET N.G.V.D.



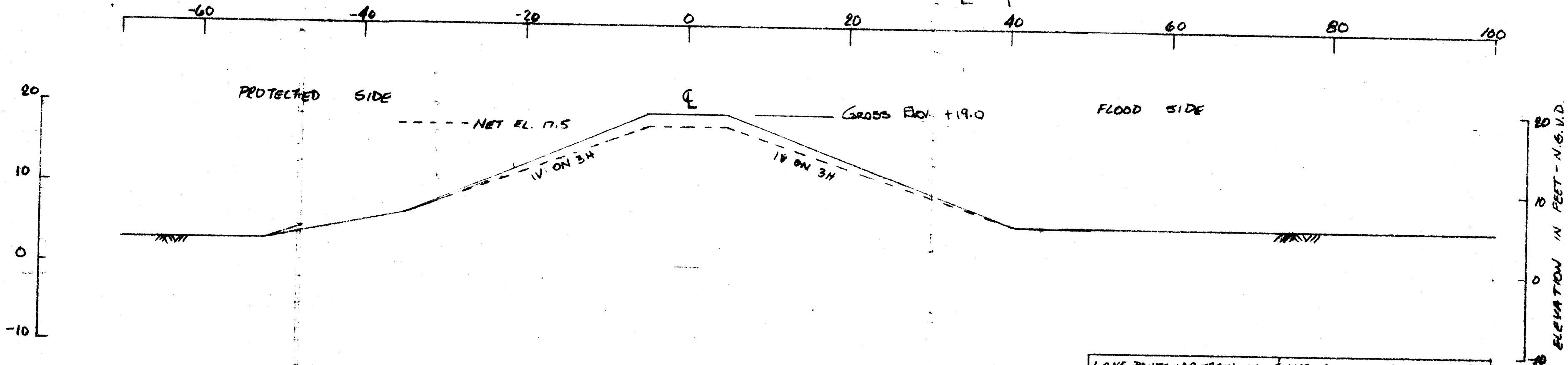
ELEVATION IN FEET N.G.V.D.

LAKE PONT. LA. & VICINITY HURRICANE PROTECTION
 PROJECT ORLEANS PARISH LAKEFRONT LEVEE WEST
 OF IHNC HIGH LEVEL PLAN GDM
 B/L STA 161+00.18 TO B/L STA 196+91.33
 LEVEE WITH I-WALL AND BARGE BERM

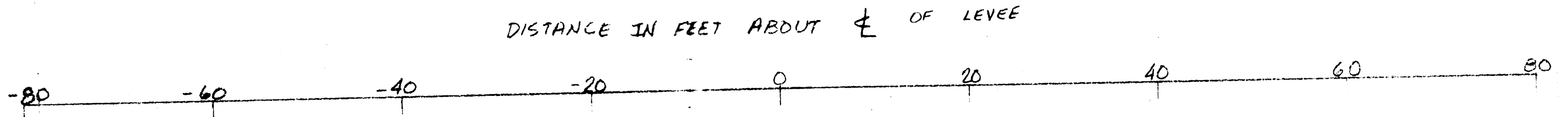
LMNED-FS

ELEVATION IN FEET - N.G.V.D.

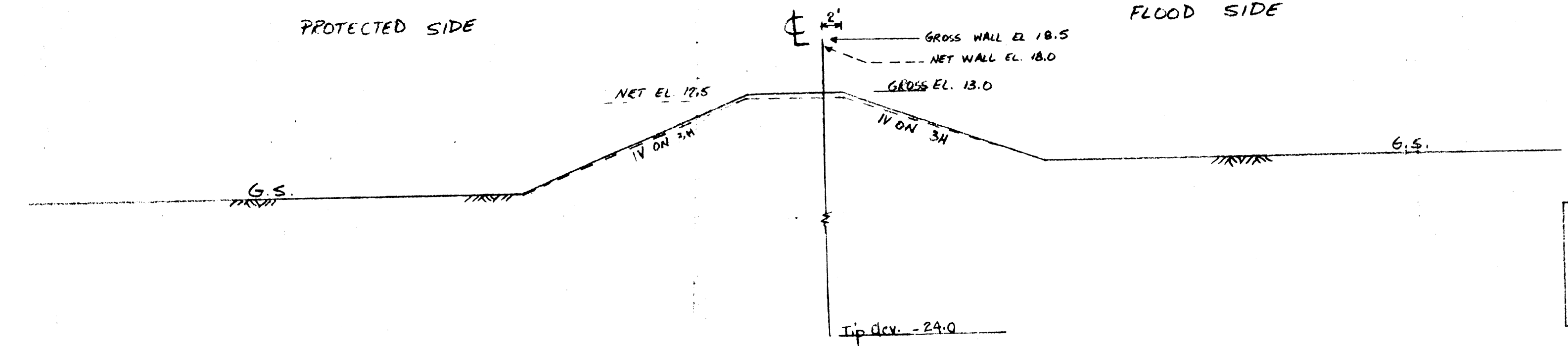
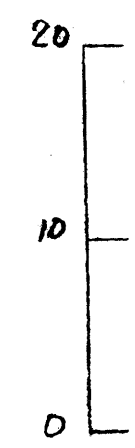
DISTANCE IN FEET ABOUT ϵ of LEVEE



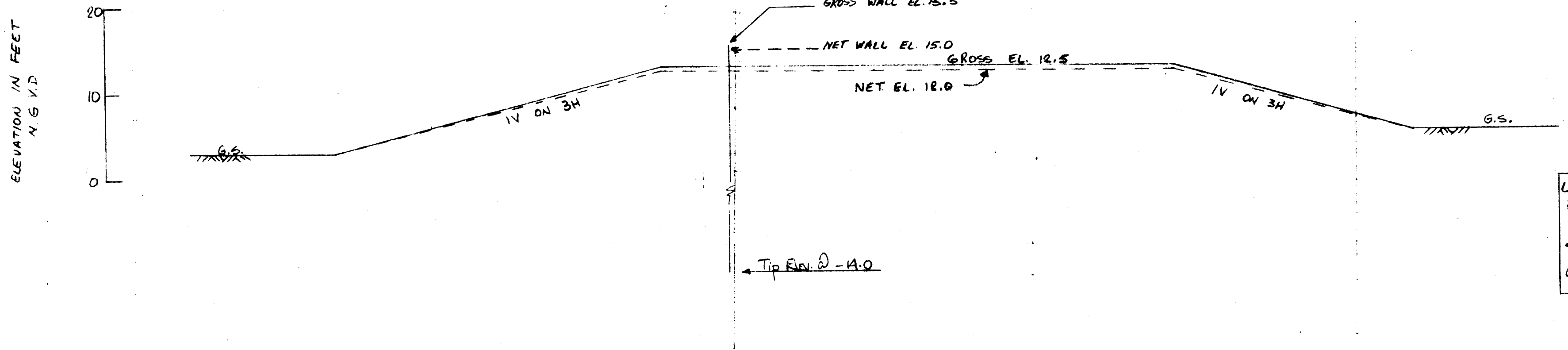
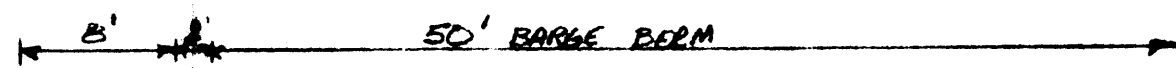
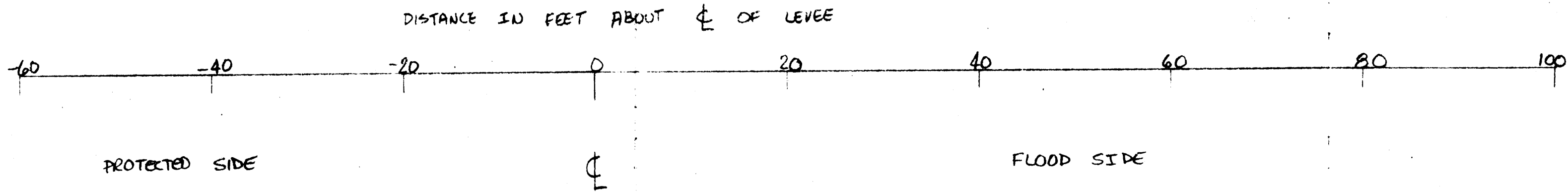
LAKE PONTCHARTRAN, LA ϵ VICINITY - ORLEANS PARISH
LAKEFRONT LEVEES - WEST I.H.N.C. TO
17TH ST CANAL
STA. 199+41.52 TO 246+37.17 B/L LMNED-R



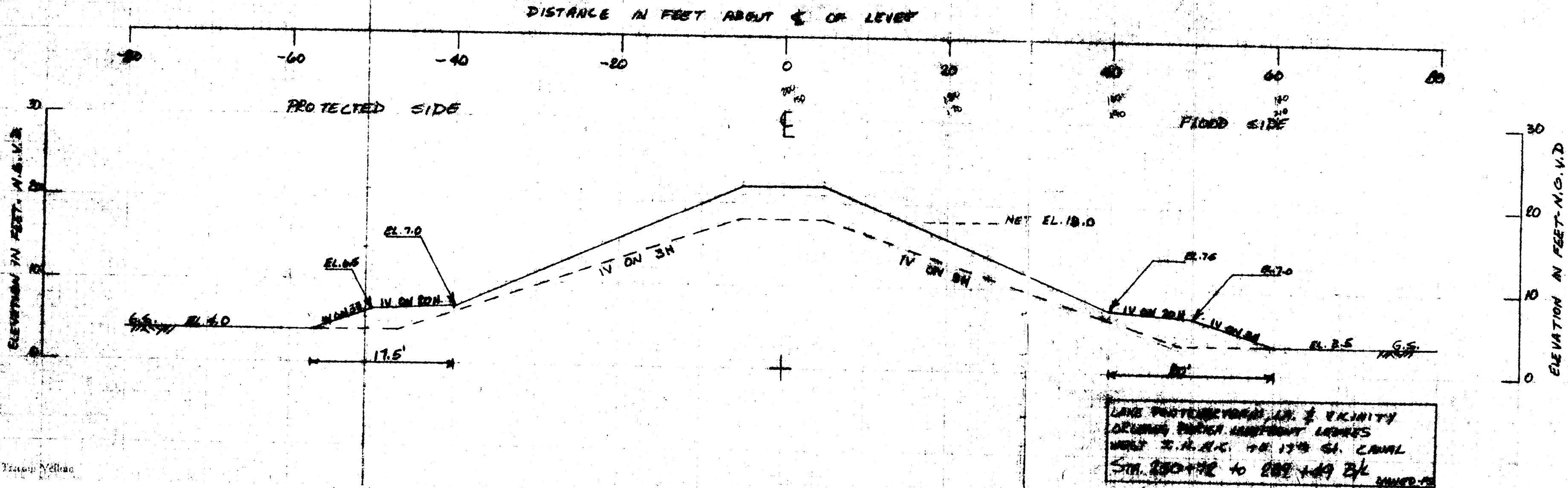
ELEVATION IN FEET
N.G. V.D.



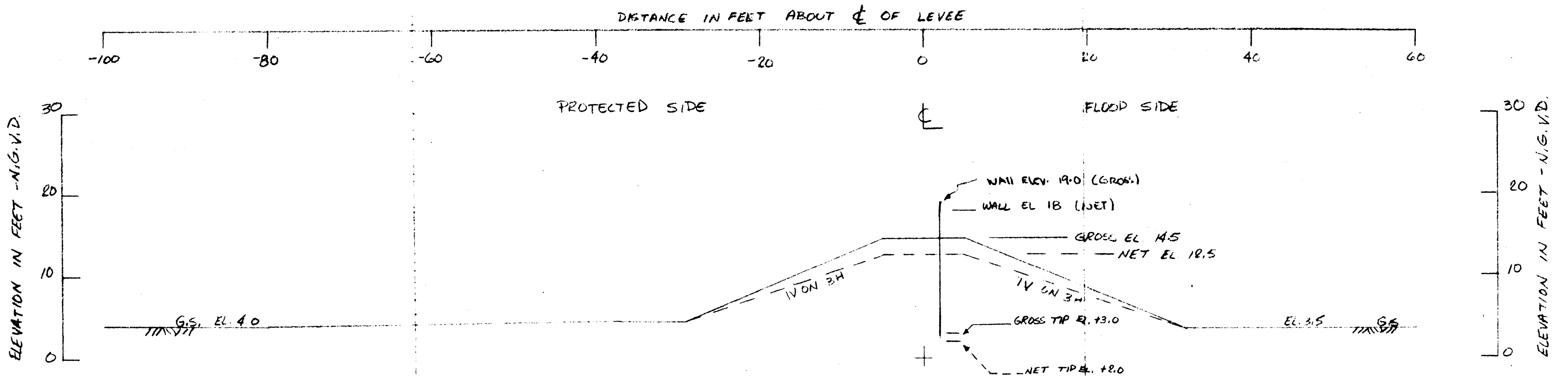
LAKE PONTCHARTRAIN, LA & VICINITY -
 ORLEANS PARISH LAKEFRONT LEVEES
 WEST I.H.N.C. TO 17TH ST CANAL
 STA. 199 + 41.52 TO 246 + 37.17 B/L
 LEVEE WITH I-WALL
 LMWED-PS



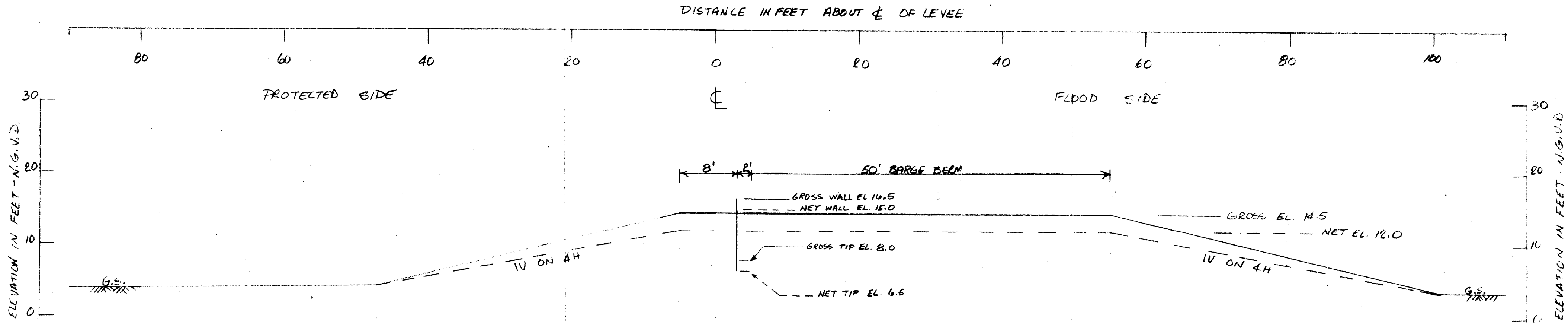
LAKE PONTCHARTRAIN, LA. & VICINITY - ORLEANS
 PARISH LAKEFRONT LEVES - WEST I.W.I.C.
 TO 17TH ST CANAL.
 STA. 199+41.52 TO 246+37.17 B/L
 LEVEE BARGE AND I-WALL
 LMNED-FS



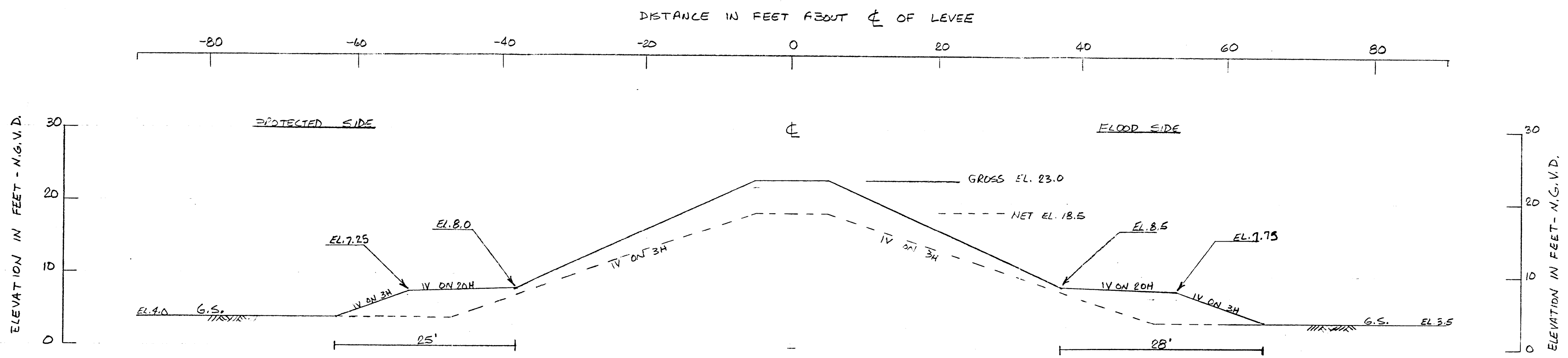
ENGINE 100% Eng. Triton Yellow



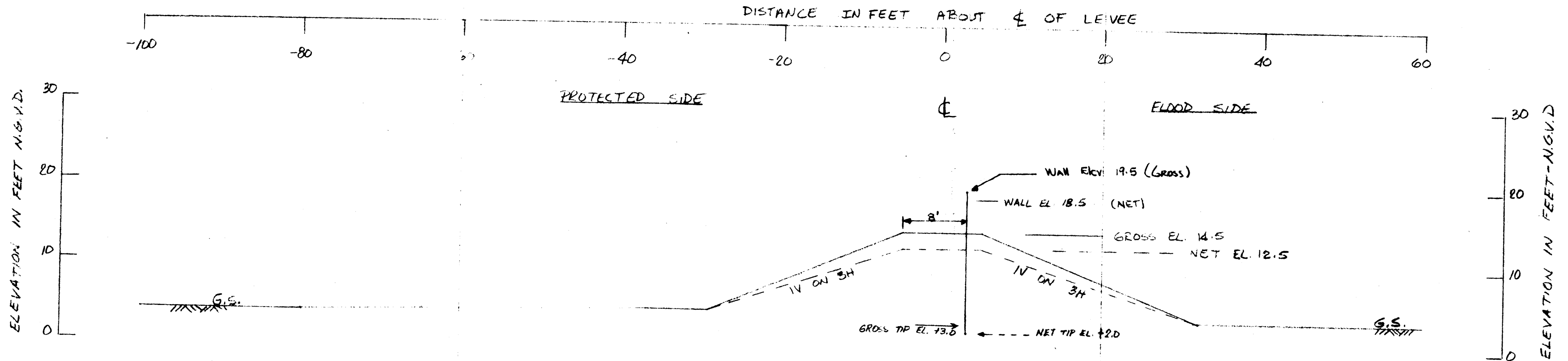
LAKE PONTCHARTRAIN, LA & VICINITY
 ORLEANS PARISH LAKE FRONT LEVEES
 WEST I.H.N.C. TO 17th ST. CANAL
 LEVEE WITH I-WALL
 STA. 250+72 TO 289+49 B/L
 LINED-FS



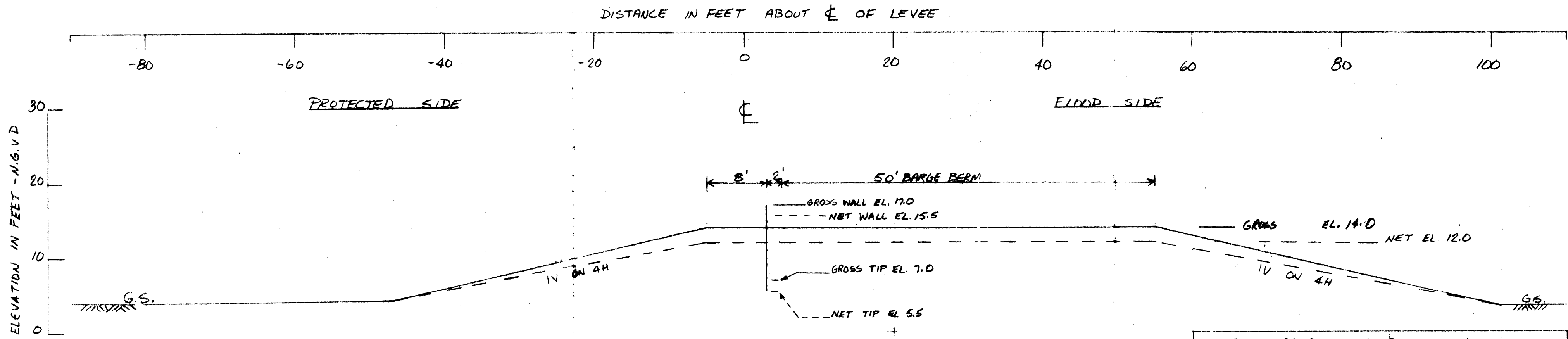
LAKE PONTCHARTRAIN, LA & VIC.
ORLEANS PARISH LAKEFRONT LEVEES
WEST I.H.N.C. TO 17th ST. CANAL
LEVEE WITH I-WALL & BARGE BERM
STA. 250+72 TO 289+49 B/L
LMNED-FS



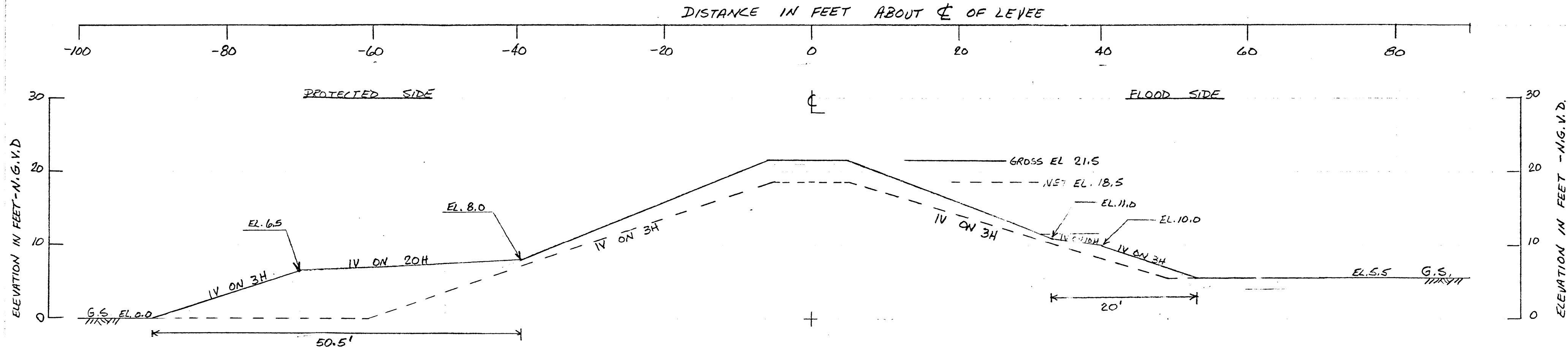
LAKE PONTCHARTRAIN, LA & VICINITY
 ORLEANS PARISH LAKEFRONT LEVEES
 WEST I.H.N.C. TO 17th ST CANAL
 STA. 289+49 TO 303+51.39 B/L
 LMNEDFS



LAKE PONTCHARTRAIN, LA & VICINITY
 ORLEANS PARISH LAKEFRONT LEVEES
 WEST I.H.N.C. TO 17TH ST. CANAL
 LEVEE WITH I-WALL
 STA. 289+49 + 303+51.39 B/L
 LMNED-FS



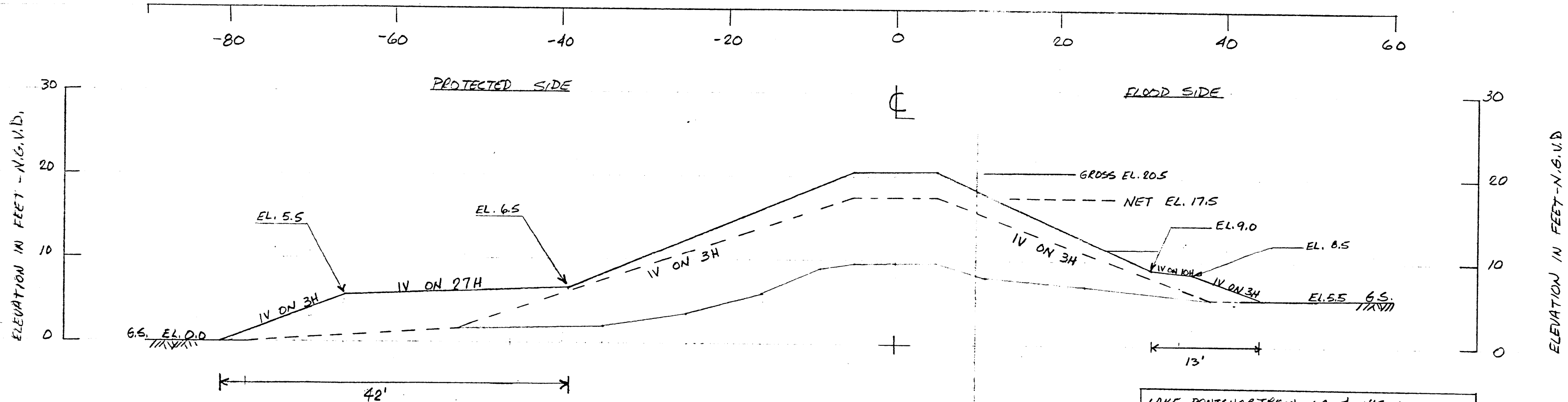
LAKE PONTCHARTRAIN, LA & VICINITY
 ORLEANS PARISH LAKEFRONT LEVEES
 WEST I.H.N.C. TO 17TH ST. CANAL
 LEVEE WITH I-WALL & BARGE BERM
 STA. 289+49 TO 303+51.39 B/L LMNED-FS



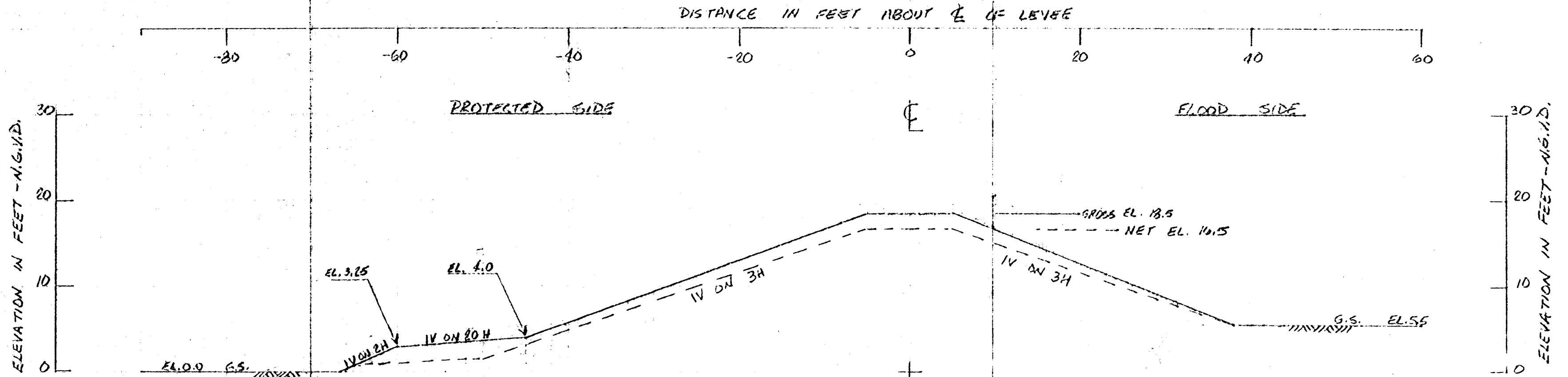
LAKE PONTCHARTRAIN, LA & VICINITY
 ORLEANS PARISH LAKEFRONT LEVEES
 WEST I.H.N.C. TO 17th ST CANAL

STA. 303+51.39 to 306+00 B/L
 LEVEE EL. 18.5
 UNED-FS

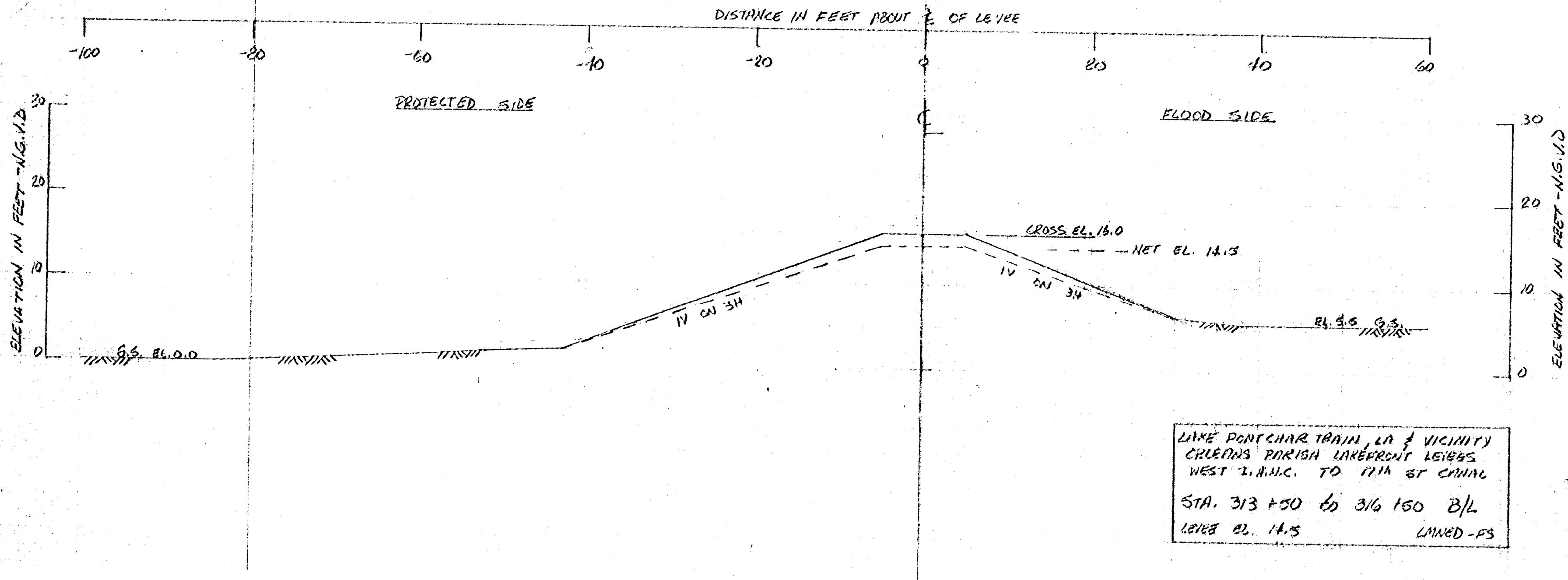
DISTANCE IN FEET ABOUT $\frac{1}{2}$ OF LEVEE

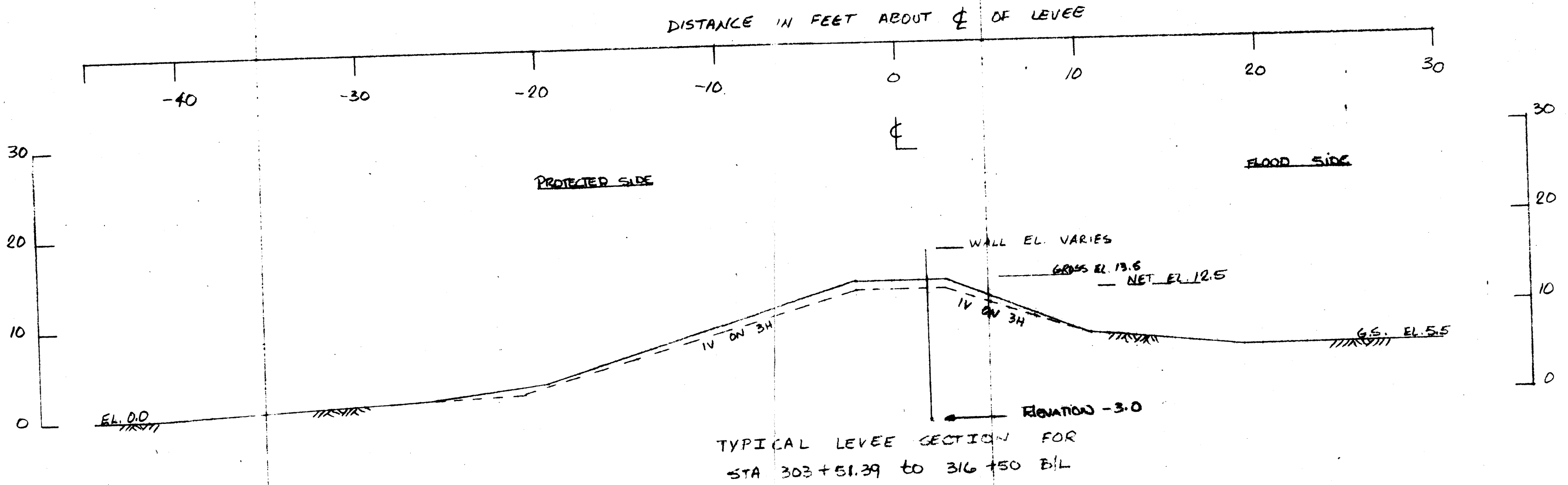


LAKE PONTCHARTRAIN, LA & VICINITY
ORLEANS PARISA LAKEFRONT LEVEES
WEST I.H.N.C. TO 17TH ST CANAL
STA. 306+00 to 308+50 B/L
LEVEE EL. 17.5
LWNEED-FS



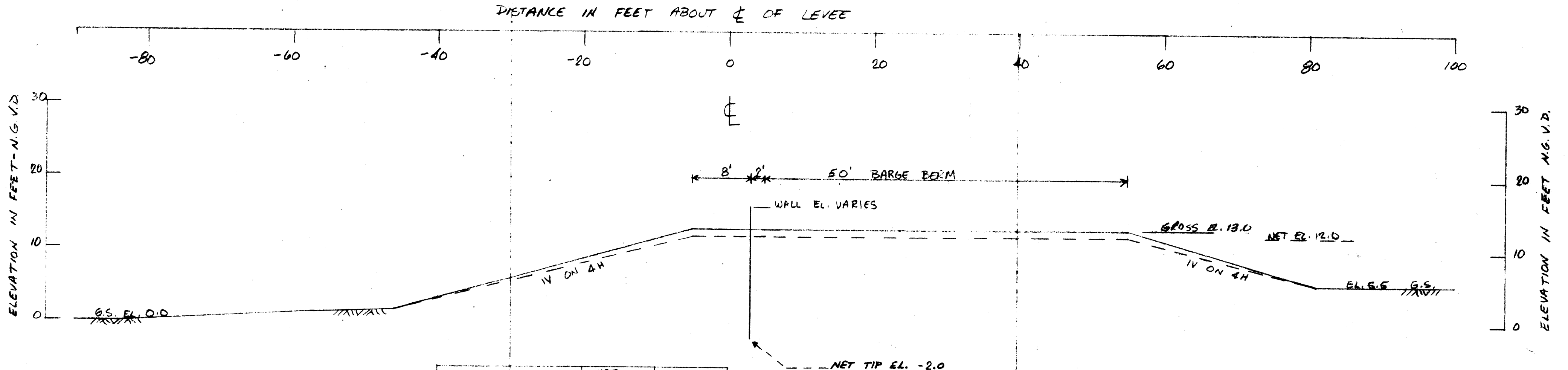
LAKE PONTCHARTRAIN, LA & VICINITY
 ORLEANS PARISH LAKEFRONT LEVEES
 WEST I.H.N.C. TO 17th ST CANAL
 STA. 308 +50 to 311 +00 B/L
 LEVEE EL. 16.5 LMMED-FS





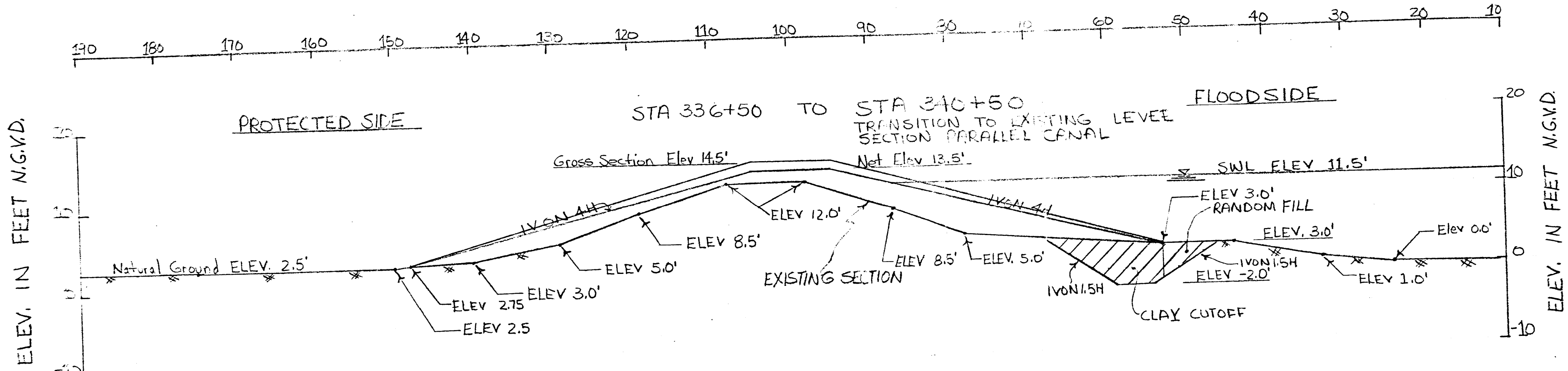
STATION (B/L)	NET WALL EL. (N.G.V.D.)	GROSS WALL EL. (N.G.V.D.)
303+51.39 to 306+00	18.5	19.0
306+00 to 308+50	17.5	18.0
308+50 to 311+00	16.5	17.0
311+00 to 313+50	15.5	16.0
313+50 to 316+50	14.5	15.0

LAKE PONTCHARTRAIN, LA & VICINITY
ORLEANS PARISH LAKEFRONT LEVEES
WEST I.H.N.C. TO 17th ST CANAL
STA 303+51.39 to 316+50 B/L
LEVEE WITH I-WALL LMNED-FS



STATION B/L	NET WALL EL. (N.G.V.D.)	GROSS WALL EL. (N.G.V.D.)
303+50 to 313+50	15.5	16.0
313+50 to 316+50	14.5	15.0

LAKE PONTCHARTRAIN, LA & VICINITY
 ORLEANS PARISH LAKEFRONT LEVEES
 WEST I.H.N.C. TO 17TH ST. CANAL
 STA. 303+50 to 316+50 B/L
 LEVEE W/ I-WALL & BARGE BERM
 LINED-FS



PROTECTED SIDE

STA 336+50 TO STA 340+50
 TRANSITION TO EXISTING LEVEE
 SECTION PARALLEL CANAL

FLOODSIDE

Note 1V ON 4H SLOPES
 USED TO GIVE CLAY COVER
 OVER EXISTING SILT EMBANKMENT
 SEE BORING 12-U

ORLEANS LAKEFRONT
 HIGH LEVEL PLAN
 NET SECTION
 ORLEANS MARINA
 MARCH 84 LMNEDFS