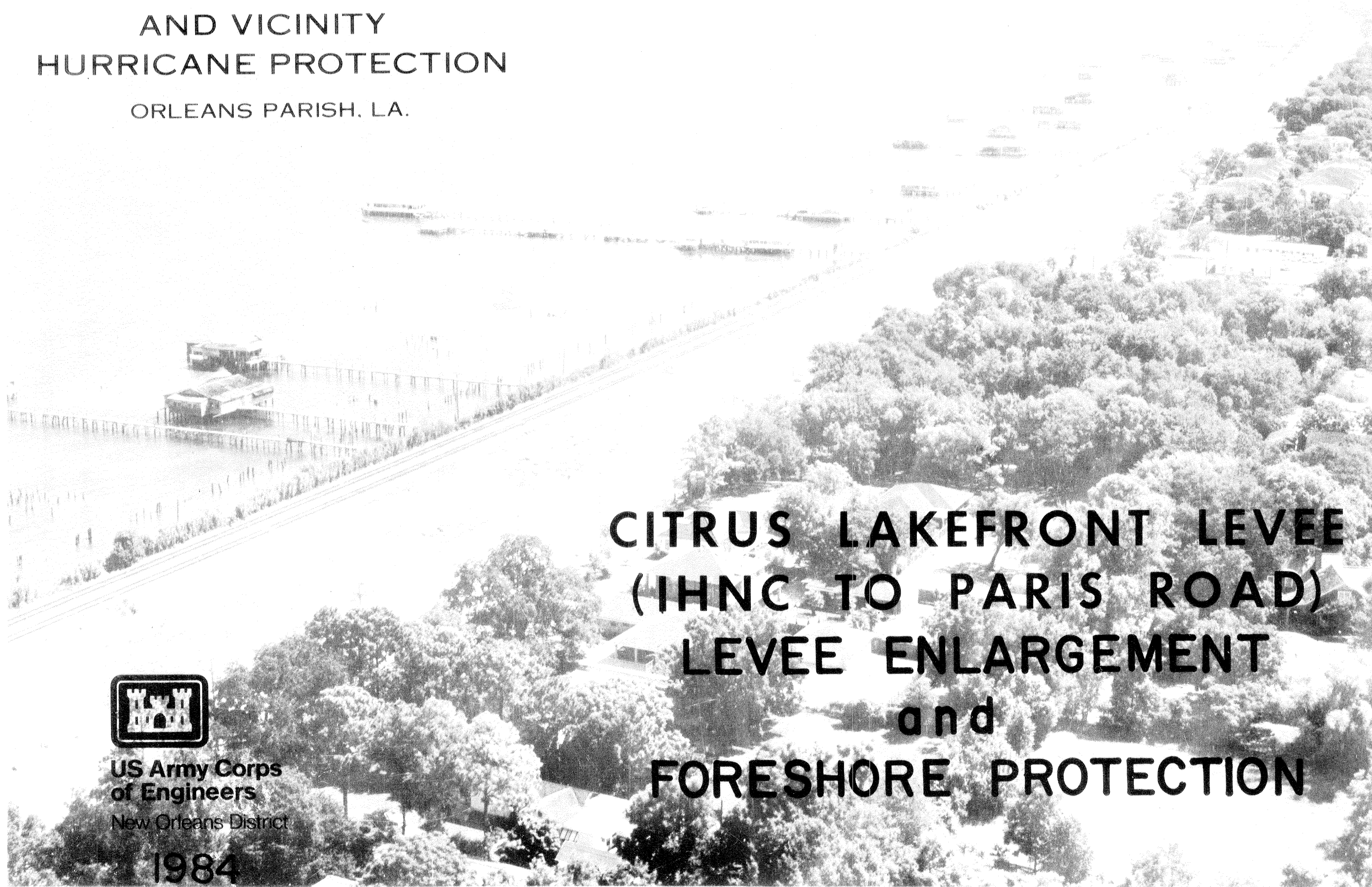
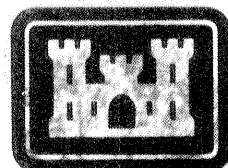


PLANS FOR
LAKE PONTCHARTRAIN, LA.
AND VICINITY
HURRICANE PROTECTION
ORLEANS PARISH, LA.



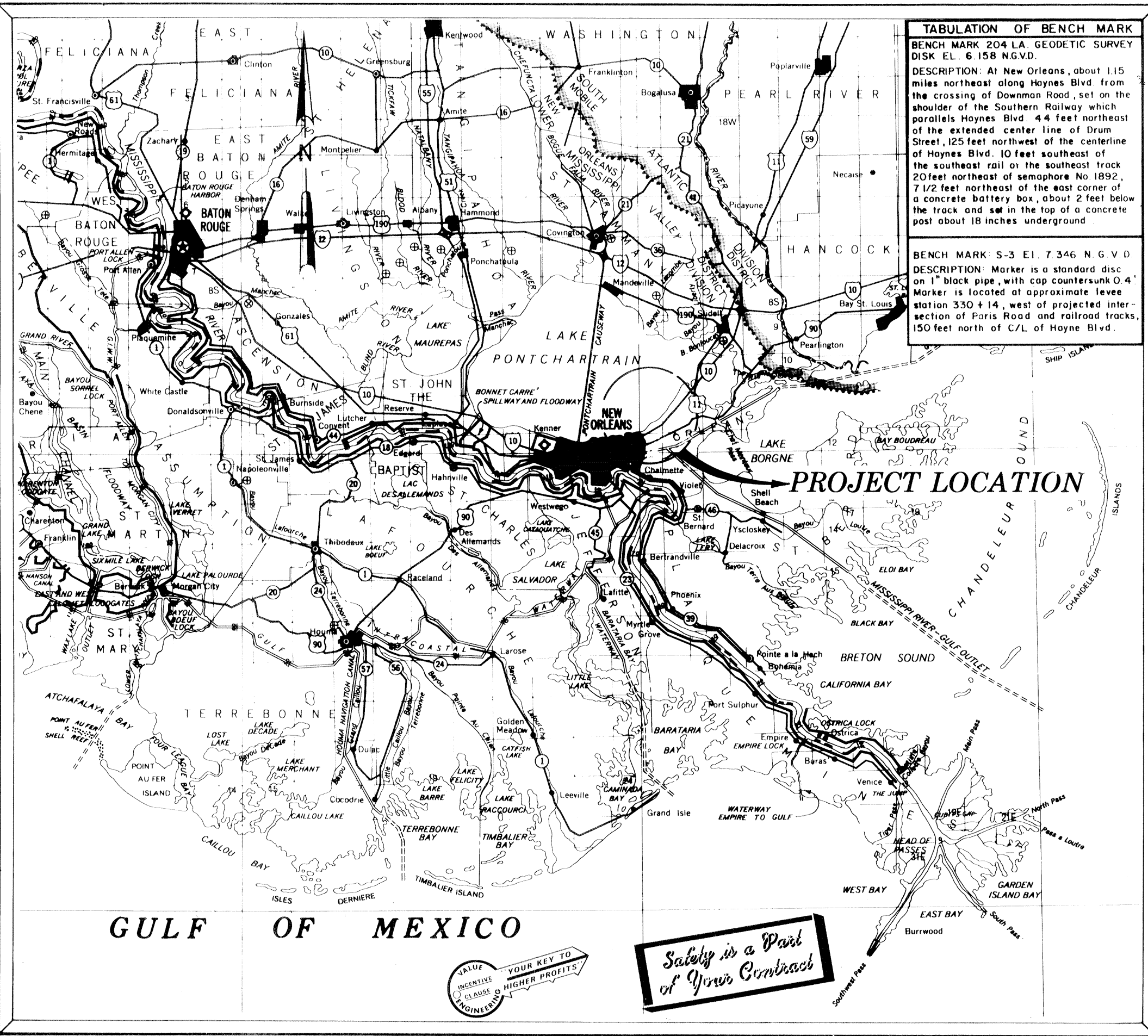
**CITRUS LAKEFRONT LEVEE
(IHNC TO PARIS ROAD)
LEVEE ENLARGEMENT
and
FORESHORE PROTECTION**



US Army Corps
of Engineers
New Orleans District

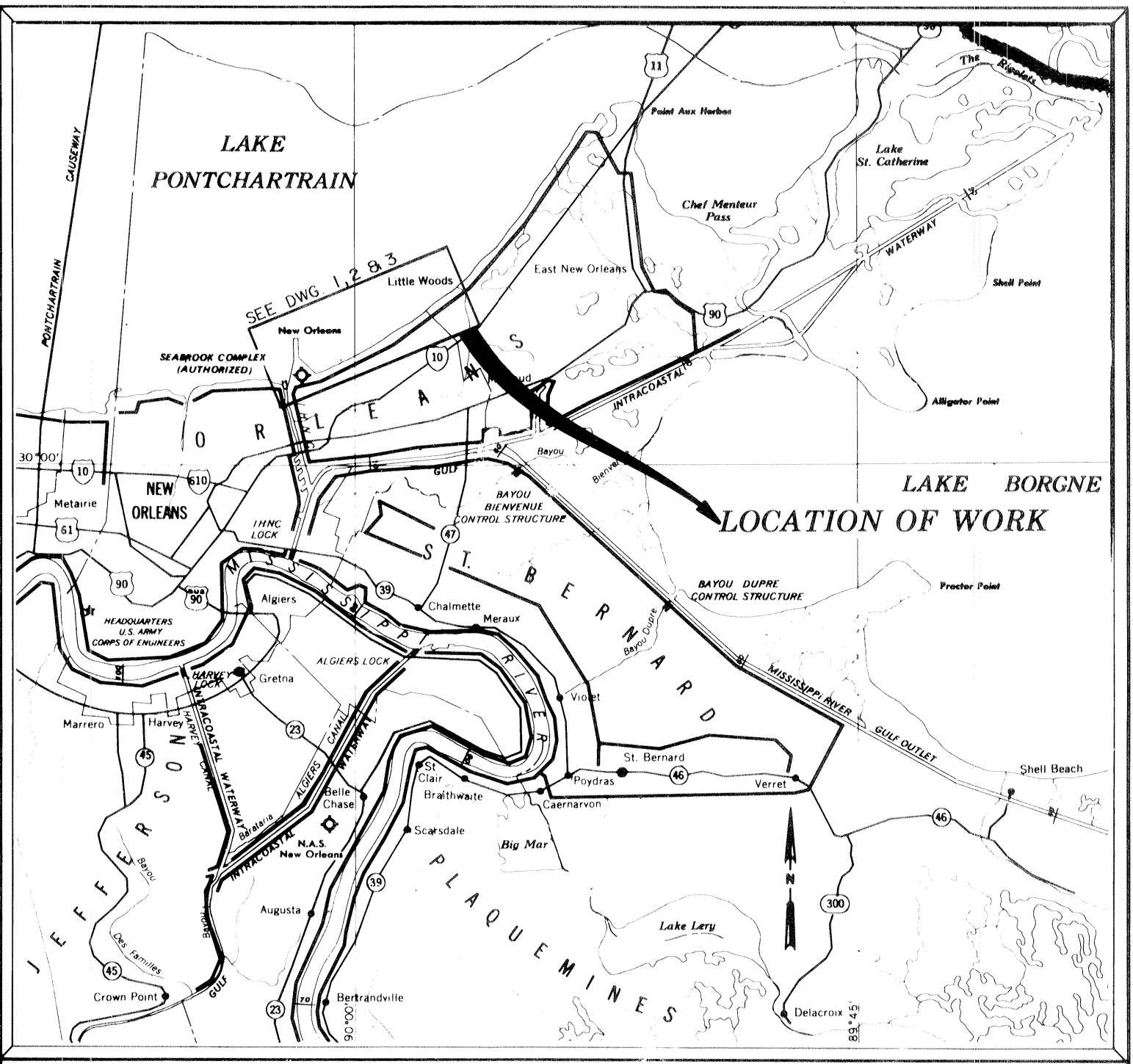
1984

STICK FILE



TABULATION OF BENCH MARK
 BENCH MARK 204 LA. GEODETIC SURVEY DISK EL. 6 158 NGVD.
 DESCRIPTION: At New Orleans, about 1.15 miles northeast along Haynes Blvd. from the crossing of Downman Road, set on the shoulder of the Southern Railway which parallels Haynes Blvd. 4.4 feet northeast of the extended center line of Drum Street, 125 feet northwest of the centerline of Haynes Blvd. 10 feet southeast of the southeast rail of the southeast track 20 feet northeast of semaphore No 1892, 7 1/2 feet northeast of the east corner of a concrete battery box, about 2 feet below the track and set in the top of a concrete post about 18 inches underground.

BENCH MARK S-3 EI. 7.346 NGVD
 DESCRIPTION: Marker is a standard disc on 1" black pipe, with cap countersunk 0.4" Marker is located at approximate levee station 330+14, west of projected intersection of Paris Road and railroad tracks, 150 feet north of C/L of Hayne Blvd.



LOCATION MAP

INDEX TO DRAWINGS

DWG	TITLE	DWG	TITLE
1	LOCATION MAP, VICINITY MAP, AND INDEX	9	MISCELLANEOUS DETAILS (OFFSET, RECESS)
2	PLAN AND PROFILE B/L STA. 27+28.53 TO B/L STA 130+07	10	MISCELLANEOUS DETAILS
3	PLAN AND PROFILE B/L STA. 130+07 TO B/L STA. 267+80	11	SPECIAL WORK AREA STA.149+00 B/L TO STA.162+00 B/L
4	PLAN AND PROFILE B/L STA. 267+80 TO B/L STA. 331+50	12	HOWZE BEACH BORROW & SOIL BORING LOGS
5	TYPICAL FLOTATION CHANNEL	13	LEVEE AND FORESHORE DIKE SOIL BORING LOGS
6	LEVEE DESIGN SECTIONS	14	SOIL BORING LEGEND
7	FORESHORE DIKE DESIGN SECTIONS	15	HYDROGRAPHS
8	TYPICAL DRAIN PIPE AND POLE INSTALLATION		

CITRUS LAKEFRONT LEVEE

LEVEE ENLARGEMENT AND FORESHORE PROTECTION

B/L STA. 27+28.53 TO B/L STA. 331+50

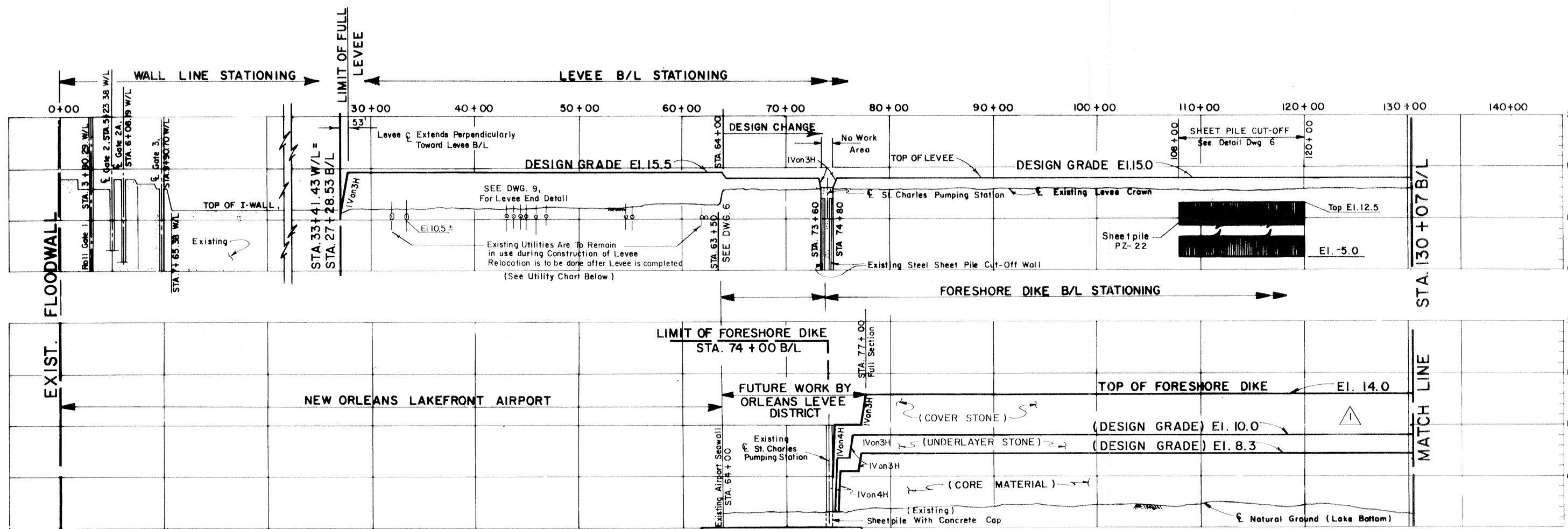
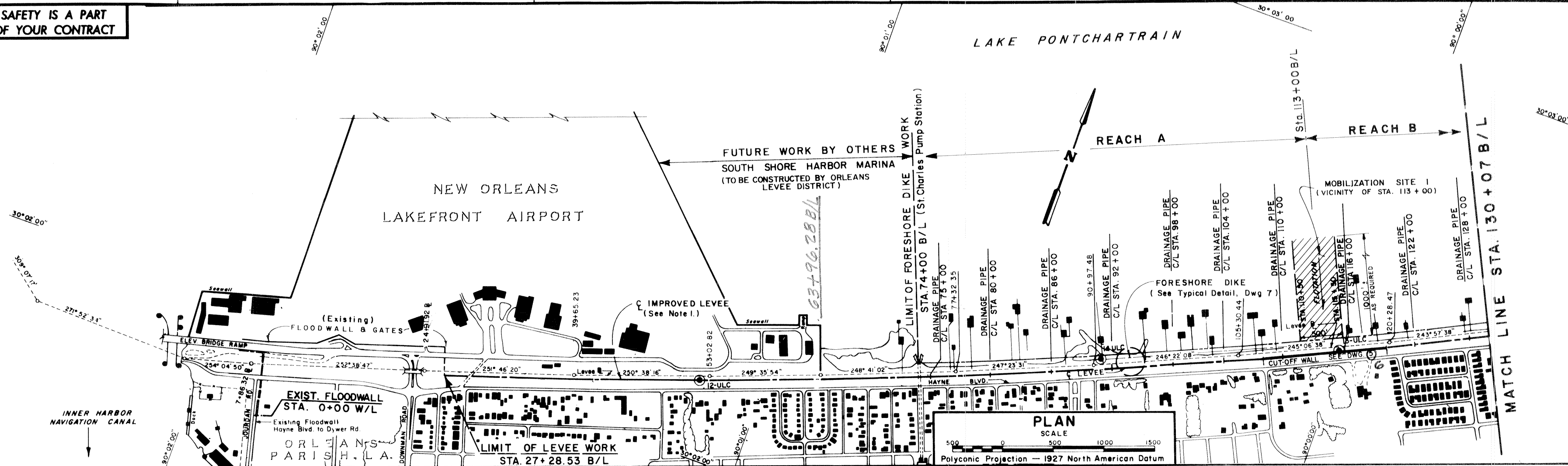
NOTE:
 DRAWINGS IN THIS FOLIO
 HAVE BEEN REDUCED ONE
 HALF THE ORIGINAL SCALE



Safety is a Part of Your Contract

REVISION	DATE	DESCRIPTION	BY
U.S. ARMY ENGINEER DISTRICT NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS LA			
SUBMITTED <i>[Signature]</i> APPROVED <i>[Signature]</i> APPROVED		LAKE PONTCHARTRAIN LOUISIANA AND VICINITY LAKE PONTCHARTRAIN HIGH LEVEL PLAN CITRUS LAKEFRONT LEVEE LEVEE AND FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA LOCATION MAP, VICINITY MAP AND INDEX	
DESIGNED	DRAWN	CHECKED	DATE
T.W.W.	T.W.W.	R.P.L.	DEC 1984
SUBMITTED	SCALE	FILE NO.	
	AS SHOWN	H-8-29696	
SPEC NO.		DWG	OF
DACW29-85-B-0015		1	15

SAFETY IS A PART OF YOUR CONTRACT



BORING LEGEND
 ● UNDISTURBED BORING

LOCATION OF UTILITIES

STA. 33+00	4" Dia.	GAS MAIN
STA. 33+40	4-5" Dia.	ELEC. 4-Conduits with Concrete Casing
STA. 43+29	1.5" Dia.	ELEC. Meter
STA. 44+44	2-1.5" Dia.	ELEC. Meter 37A & 37B
STA. 45+76	1.5" Dia.	ELEC. Meter 39A
STA. 46+95	2-1.5" Dia.	ELEC. Meter 40A & 40B
STA. 47+92	1.5" Dia.	ELEC. Meter 40C
STA. 54+65	4-5" Dia.	ELEC. 4-Conduits with Concrete Casing
STA. 55+00	2" Dia.	GAS MAIN
STA. 62+15	8" Dia.	WATER LINE
STA. 63+00	8" Dia.	SEWER LINE

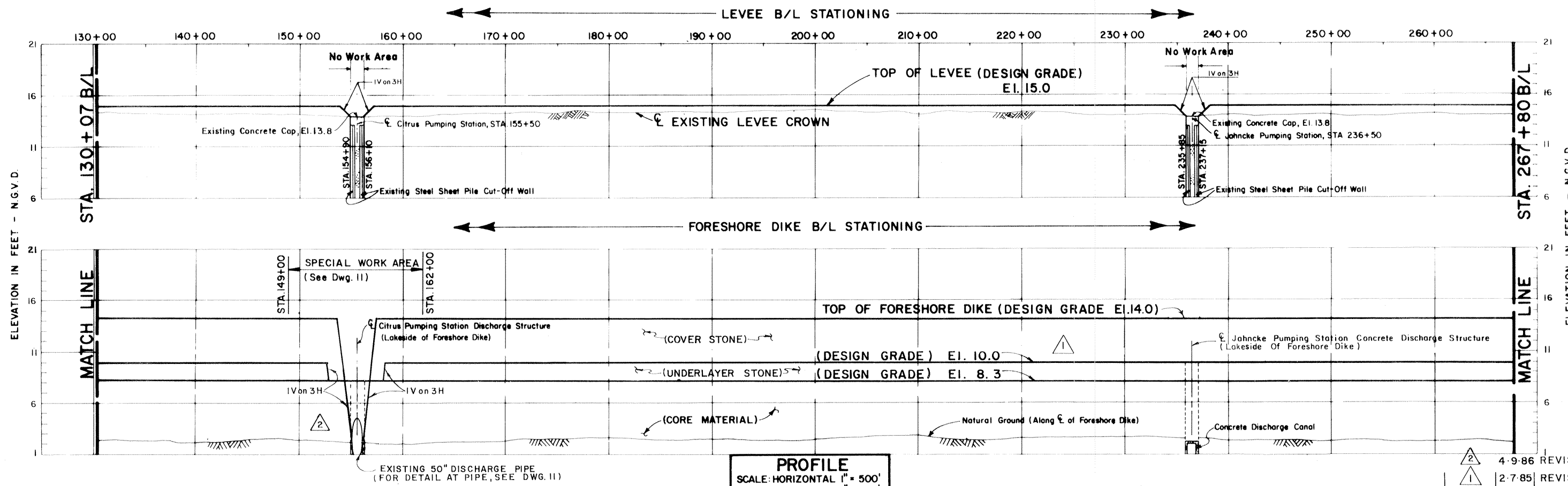
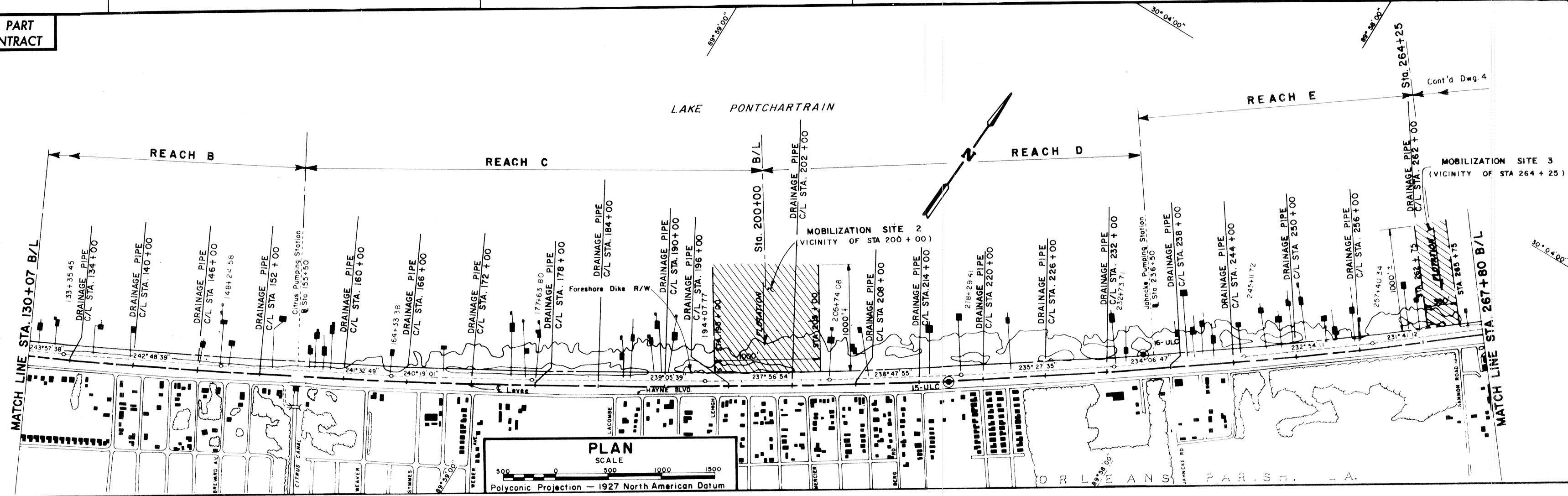
PROFILE
 SCALE: HORIZONTAL 1" = 500'
 VERTICAL 1" = 5'

- NOTES:**
- See plate 6 for Levee Design Section.
 - For detail boring logs see plates 11 thru 12.
 - See plate 6 for Sheet Pile Cut-Off alignment. Sta. 108+00 B/L to Sta. 120+00 B/L.

2-7-85	REVISED THE FORESHORE DIKE PROFILE, Amend. 4 T.W.				
REVISION	DATE	DESCRIPTION	BY		
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.					
LAKE PONTCHARTRAIN LOUISIANA AND VICINITY LAKE PONTCHARTRAIN HIGH LEVEL PLAN CITRUS LAKEFRONT LEVEE LEVEE AND FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA PLAN AND PROFILE B/L STA. 27+28.53 TO B/L STA. 130+07					
DESIGNED:	DRAWN:	CHECKED:	DATE:	SCALE:	FILE NO.:
T.W.W.	L.A.H.	R.P.L.	DEC 1984	AS SHOWN	H-8-29696
SUBMITTED:	SPEC. NO.:	Dwg 2 of 15			
Handwritten Signature	DACW29-85-B-0015				



SAFETY IS A PART OF YOUR CONTRACT



BORING LEGEND
 ● UNDISTURBED BORING

REVISION	DATE	DESCRIPTION	BY
2	4-9-86	REVISED FORESHORE AT PIPELINE, Mod.	T.W.
1	2-7-85	REVISED FORESHORE DIKE PROFILE, Amend. 4	T.W.

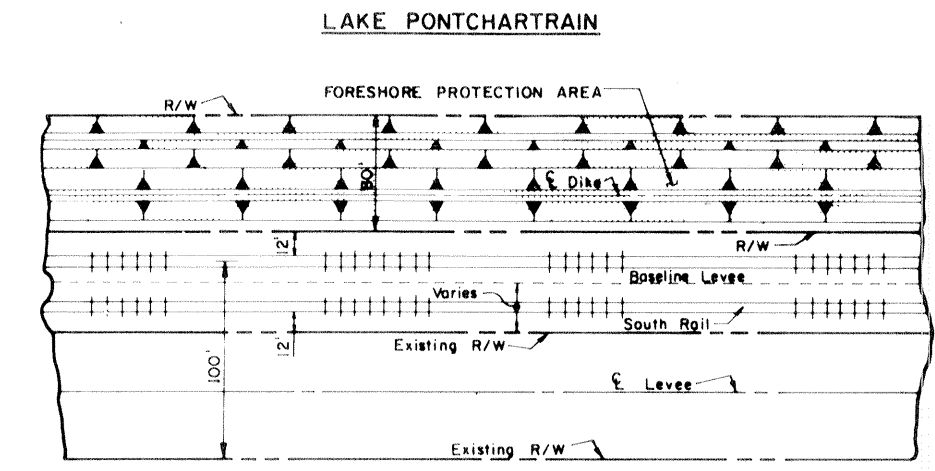
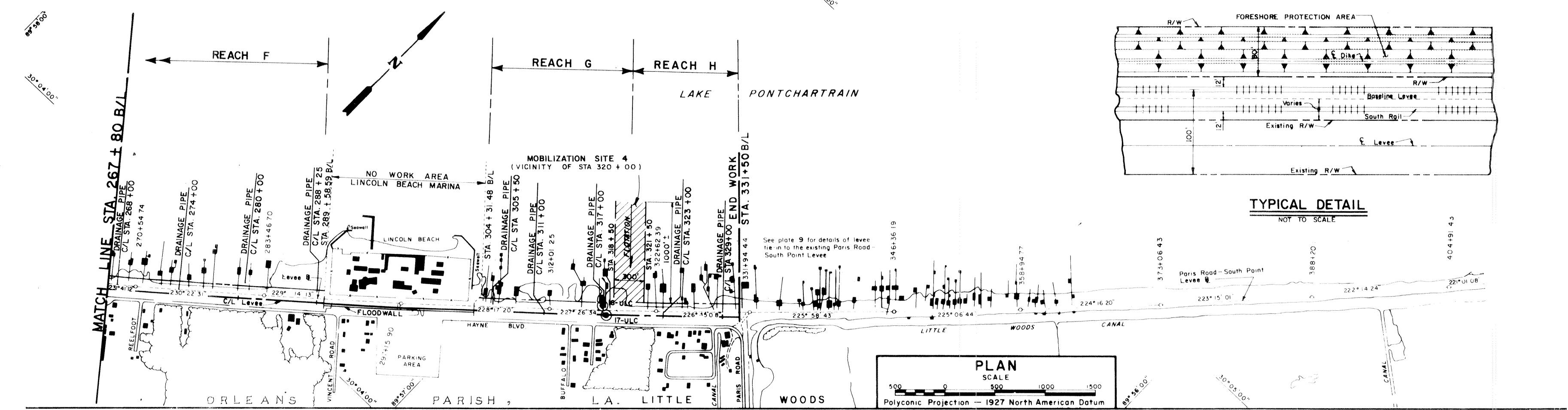
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

LAKE PONTCHARTRAIN LOUISIANA AND VICINITY
 LAKE PONTCHARTRAIN HIGH LEVEL PLAN
CITRUS LAKEFRONT LEVEE
LEVEE AND FORESHORE PROTECTION
 ORLEANS PARISH, LOUISIANA
PLAN AND PROFILE
B/L STA. 130+07 TO B/L STA. 267+80

DESIGNED: T.W.	DRAWN: L.A.H.	CHECKED: R.P.L.	DATE: DEC 1984	SCALE: AS SHOWN	FILE NO: H-8-29696
SUBMITTED: <i>Donald Lee</i>	SPEC. NO: DACW29-85-B-0015		DWG 3		OF 15

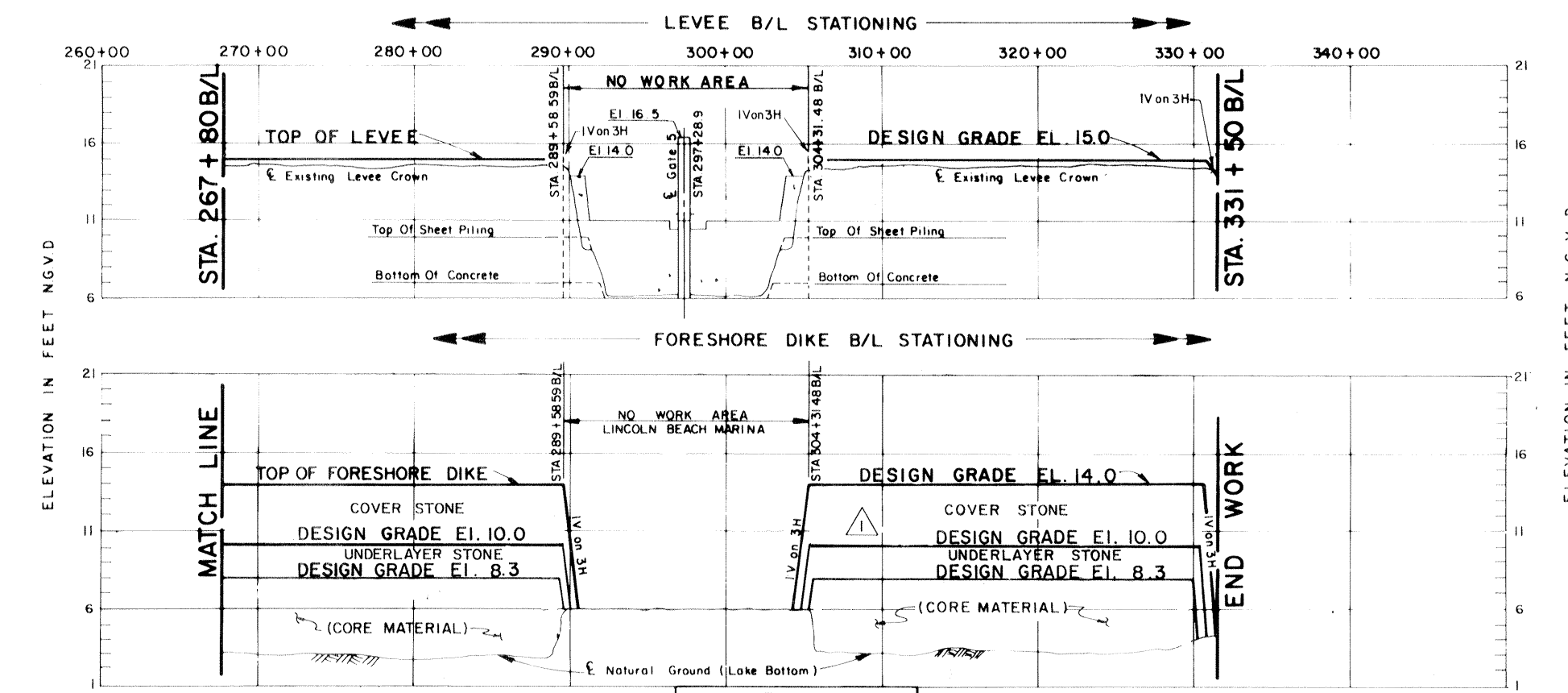


SAFETY IS A PART OF YOUR CONTRACT



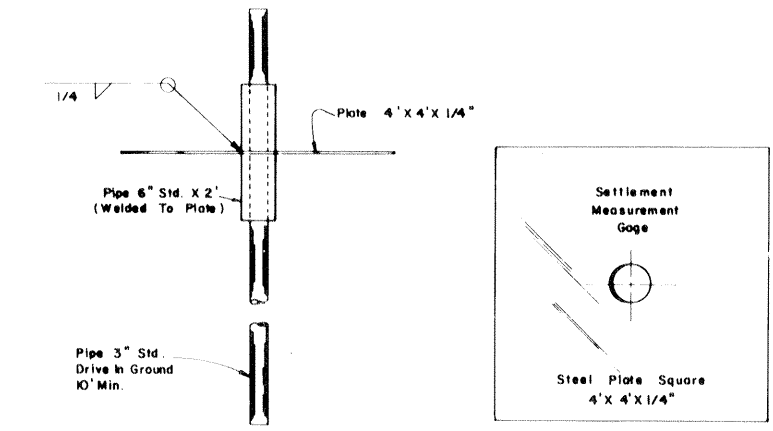
BORING LEGEND

● UNDISTURBED BORING



PROFILE
SCALE HORIZONTAL 1" = 500'
VERTICAL 1" = 5'

NOTE.
ALL END SLOPES
SHALL BE IVon 3H



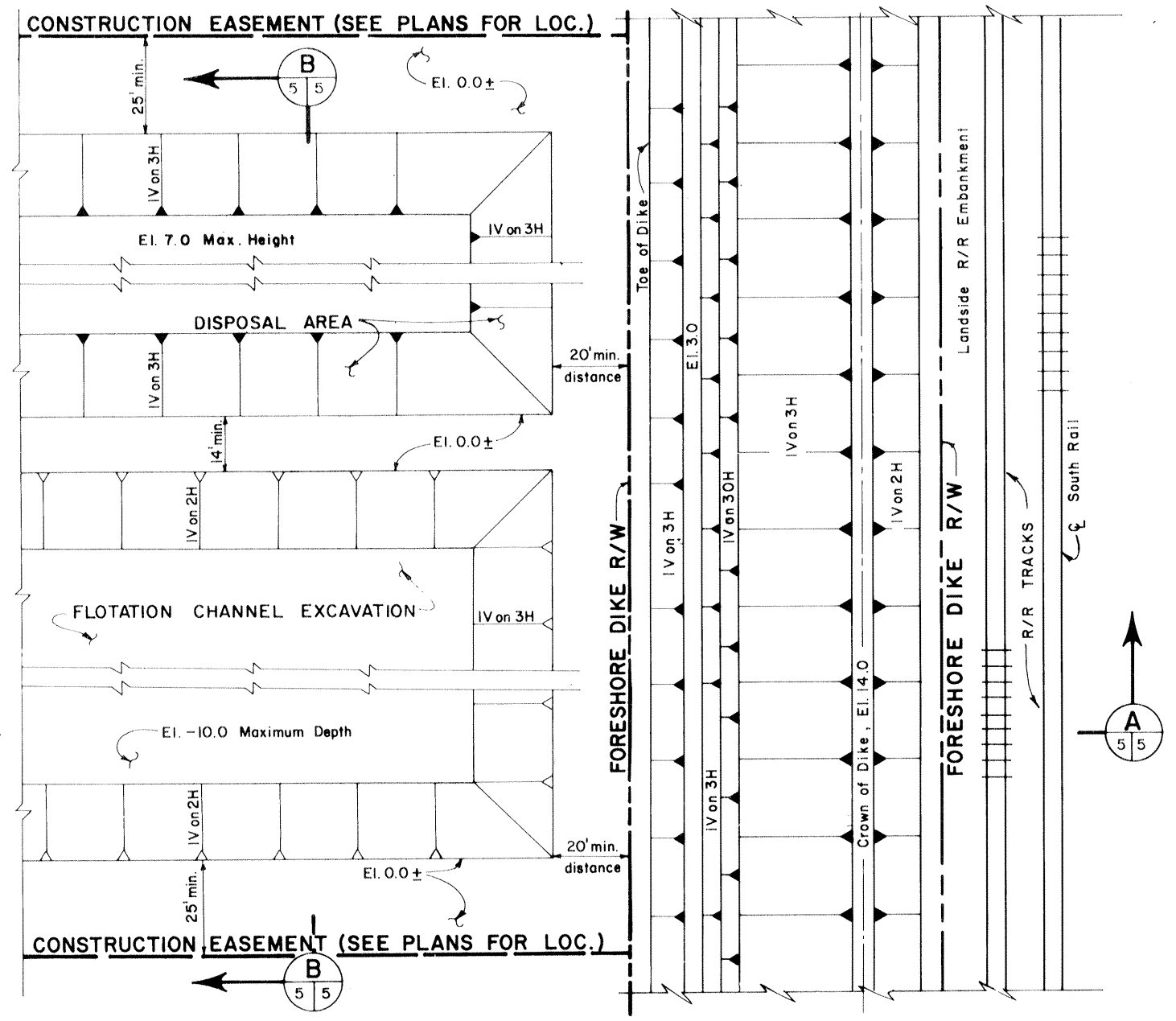
SETTLEMENT MEASUREMENT GAGES

Should the Contractor desire payment for placing additional fill due to foundation settlement during construction, he shall furnish and install settlement gages at locations shown on the design section and as specified in the contract specifications. The settlement measurement range for each settlement gage shall be for a distance of 150 feet in each direction from each settlement gage measured along the centerline of the foreshore dike, except where settlement gages are placed at less than 300 foot intervals, in which case the settlement measurement range shall be to a point 1/2 the distance between settlement gages. Riser pipes are permitted on settlement plates.

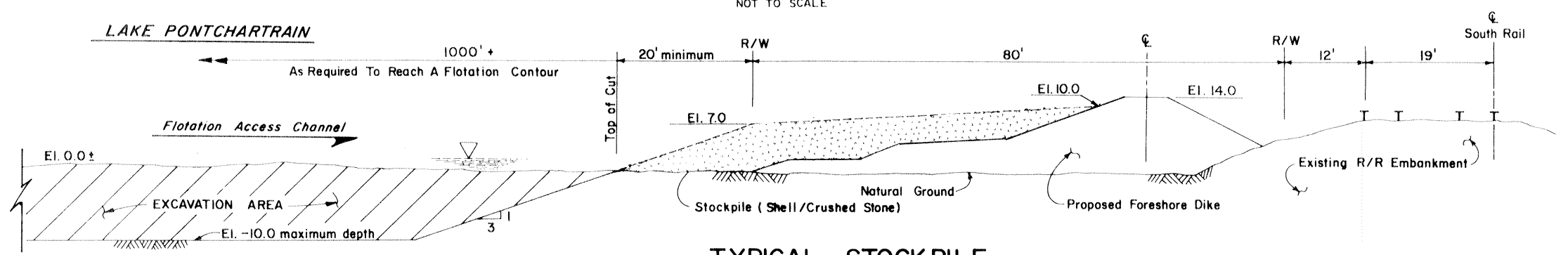
1	2-7-85	REVISED FORESHORE DIKE PROFILE, Amend. 4	T.W.
REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN LOUISIANA AND VICINITY LAKE PONTCHARTRAIN HIGH LEVEL PLAN CITRUS LAKEFRONT LEVEE LEVEE AND FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA PLAN AND PROFILE B/L STA. 267+80 TO B/L STA. 331+50			
DESIGNED	DRAWN	CHECKED	DATE
T.W.W.	LAH.	R.P.L.	DEC 1984
SUBMITTED	SCALE:	FILE NO.	
AS SHOWN	H-8-29696		
SPEC. NO.		DWG. NO.	
DACW29-85-B-0015		4 OF 15	



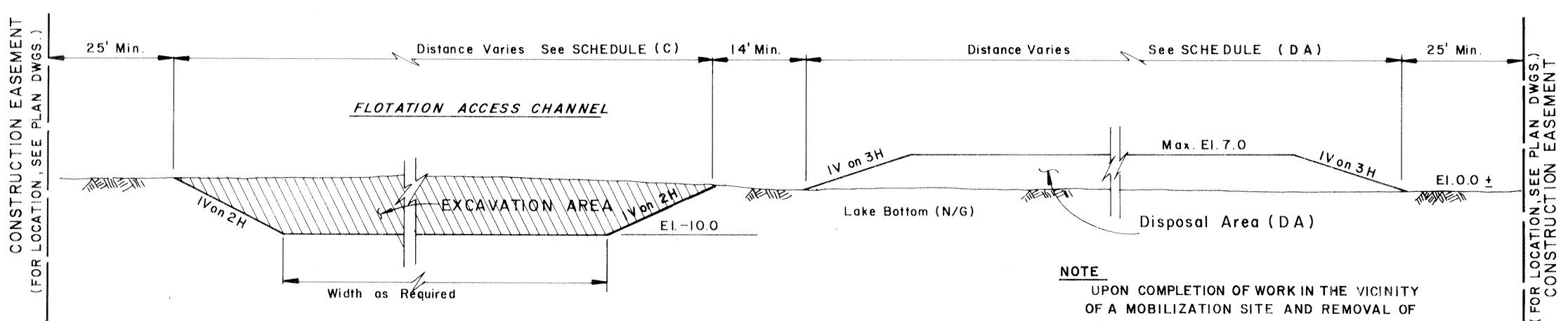
SAFETY IS A PART OF YOUR CONTRACT



TYPICAL FLOTATION CHANNEL PLAN
NOT TO SCALE



TYPICAL STOCKPILE SECTION A-A
NOT TO SCALE



FLOTATION ACCESS CHANNEL SECTION B-B
NOT TO SCALE

NOTE
UPON COMPLETION OF WORK IN THE VICINITY OF A MOBILIZATION SITE AND REMOVAL OF EQUIPMENT, THE CONTRACTOR WILL BE REQUIRED TO BACKFILL THE FLOTATION ACCESS CHANNEL WITH AVAILABLE MATERIAL.

VICINITY OF MOBILIZATION SITES				
STATION	MAXIMUM PERMISSIBLE DIMENSIONS			
	TOTAL WIDTH	(C)	(DA)	
1 113 + 00	500'	218'	218'	
2 200 + 00	1000'	468'	468'	
3 264 + 25	300'	118'	118'	
4 320 + 00	300'	118'	118'	

- NOTE:**
- For General Notes, See Dwg. 2
 - "A" Section Identification Letter
 - "3" Number Of Drawing On Which Section Is Taken.
 - "4" Number Of Drawing On Which Section Is Drawn.
 - All Sections On This Drawing Are Not To Scale.
 - A Minimum Of 20 Feet Must Be Maintained Between The Toe Of The Foreshore Design And The Top Of Cut For The Flotation Channel.

REVISION	DATE	DESCRIPTION	BY

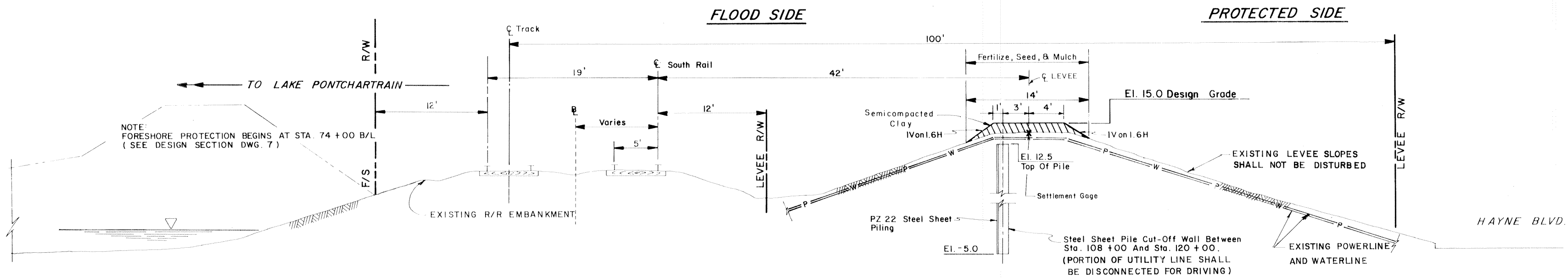
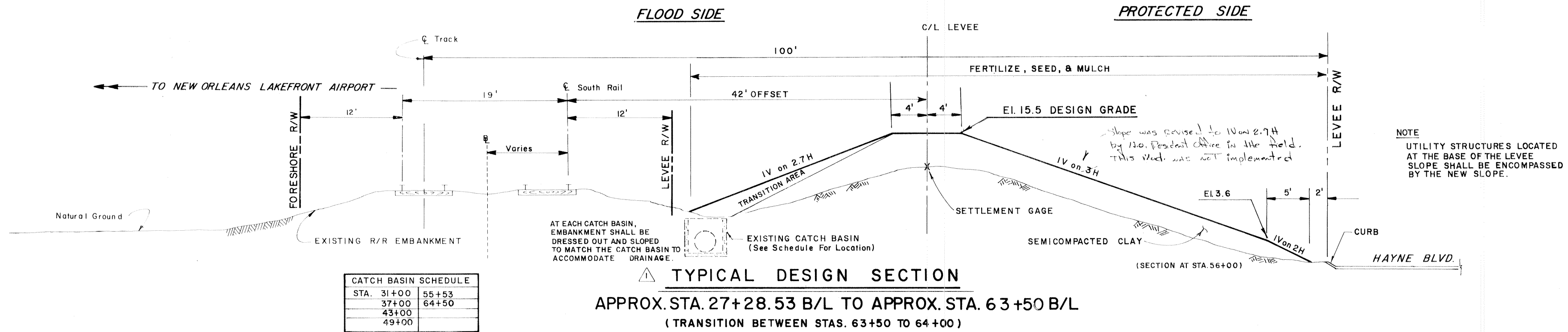
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

LAKE PONTCHARTRAIN LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN HIGH LEVEL PLAN
CITRUS LAKEFRONT LEVEE
LEVEE AND FORESHORE PROTECTION
ORLEANS PARISH, LOUISIANA

TYPICAL FLOTATION CHANNEL

DESIGNED:	DRAWN:	CHECKED:	DATE:	SCALE:	FILE NO.:
T.W.W.	L.A.H.	R.P.L.	DEC. 1964	AS SHOWN	H-8-29696
SUBMITTED:	SPEC. NO.:		DWG	5	OF 15
D. J. W. [Signature]		DACW29-85-B-0015			





REVISION	DATE	DESCRIPTION	BY
1	5-30-86	REVISED "TYPICAL DESIGN SECTION", MOD.	T.W.W.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

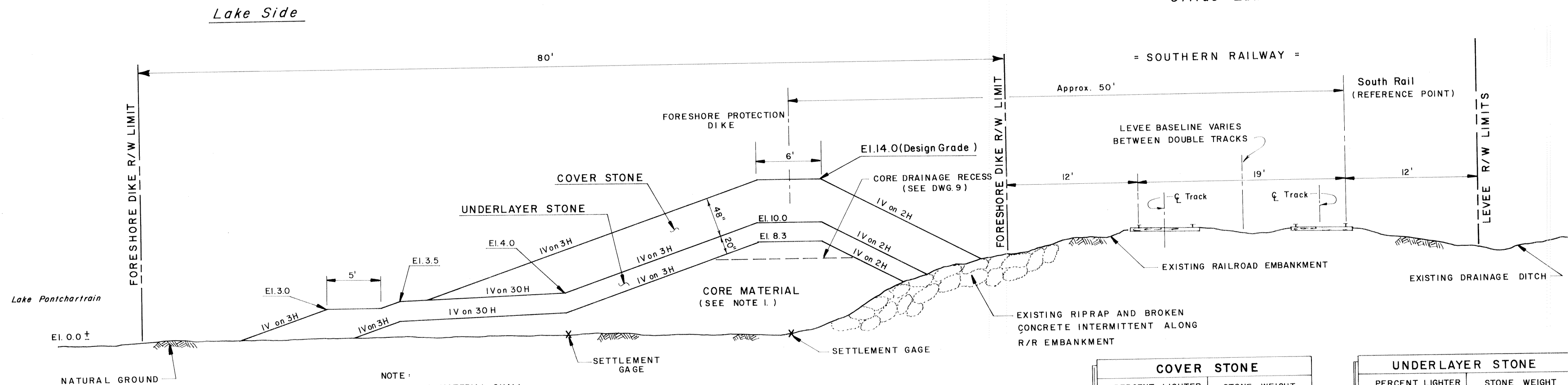
LAKE PONTCHARTRAIN LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN HIGH LEVEL PLAN
CITRUS LAKEFRONT LEVEE
LEVEE AND FORESHORE PROTECTION
ORLEANS PARISH, LOUISIANA
LEVEE DESIGN SECTIONS

DESIGNED	DRAWN	CHECKED	DATE	SCALE	FILE NO.
T.W.W.	L.A.H.	R.P.L.	DEC 1984	AS SHOWN	H-8-29696
SUBMITTED	SPEC NO.		DWG		OF
	DACW29-85-B-0015		6		15



SAFETY IS A PART OF YOUR CONTRACT

To Hayne Blvd. and
Citrus Lakefront Levee

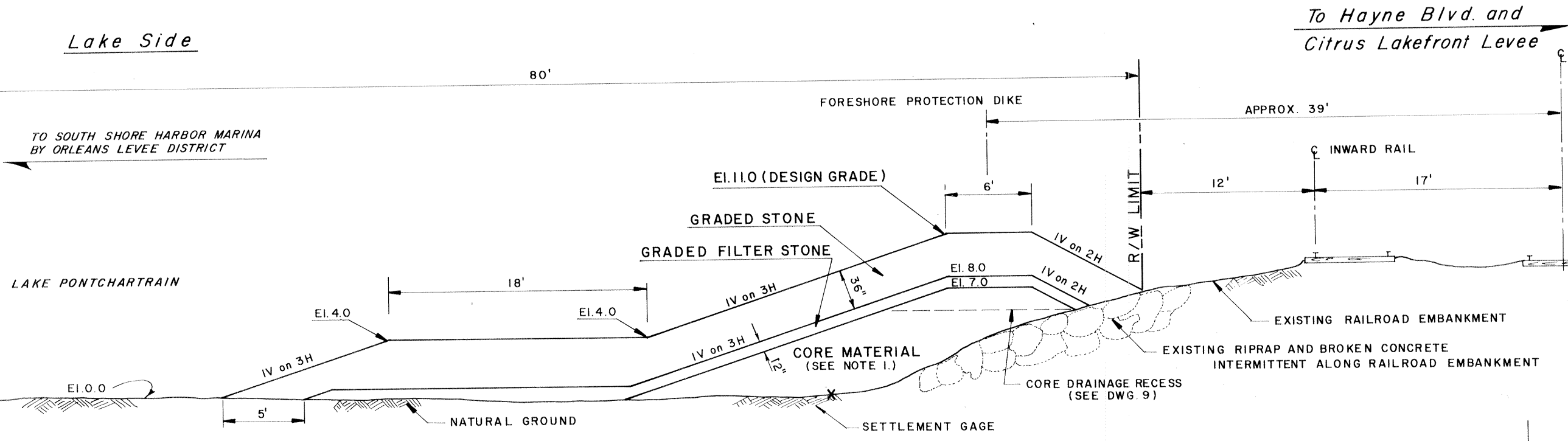


TYPICAL DESIGN SECTION
 APPROX. STA. 77+25 B/L TO APPROX. STA. 289+58 B/L
 APPROX. STA. 304+31 B/L TO APPROX. STA. 331+16 B/L
 NOT TO SCALE

COVER STONE	
PERCENT LIGHTER BY WEIGHT	STONE WEIGHT (LBS)
100	5000 - 2000
50	2200 - 1000
15	1100 - 300

UNDERLAYER STONE	
PERCENT LIGHTER BY WEIGHT	STONE WEIGHT (LBS)
100	400 - 160
50	160 - 80
15	80 - 30

NOTE:
 1. CORE MATERIAL SHALL CONSIST OF EITHER SHELL, CRUSHED STONE, or GRAVEL.



MODIFIED DESIGN SECTION
 APPROX. STA. 74+00 B/L TO APPROX. STA. 77+00 B/L
 NOT TO SCALE
 (TRANSITION BETWEEN STA. 77+00 & 77+25 B/L)

GRADED STONE	
PERCENT LIGHTER BY WEIGHT	STONE WEIGHT (LBS)
100	1000 - 400
50	430 - 200
15	210 - 60

GRADED FILTER STONE	
PERCENT LIGHTER BY WEIGHT	STONE WEIGHT (LBS)
100	50 - 20
50	20 - 10
15	10 - 5

2-7-85	REVISED TYPICAL DESIGN SECTION, Amend. 4	T.W.
REVISION	DATE	DESCRIPTION

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
 CORPS OF ENGINEERS
 NEW ORLEANS, LA.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
 LAKE PONTCHARTRAIN HIGH LEVEL PLAN
CITRUS LAKEFRONT LEVEE
 LEVEE AND FORESHORE PROTECTION
 ORLEANS PARISH, LOUISIANA

FORESHORE DIKE DESIGN SECTIONS

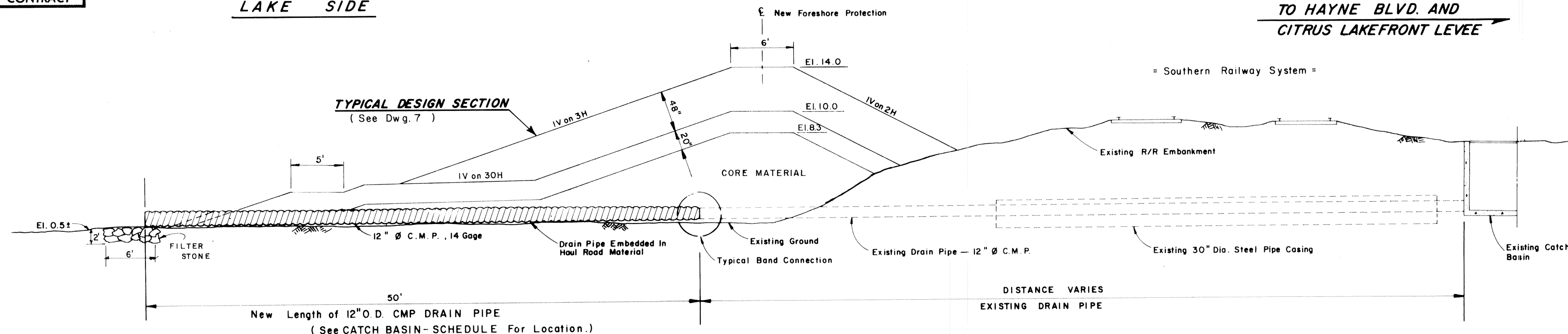
DESIGNED	DRAWN	CHECKED	DATE	SCALE	FILE NO.
T.W.W.	T.W.W.	R.P.L.	DEC 1984	AS SHOWN	H-8-29696
SUBMITTED	SPEC. NO.		DACW29 - 85-B-0015		
ENGINEER	DWG.		7 OF 15		



SAFETY IS A PART OF YOUR CONTRACT

LAKE SIDE

TO HAYNE BLVD. AND CITRUS LAKEFRONT LEVEE

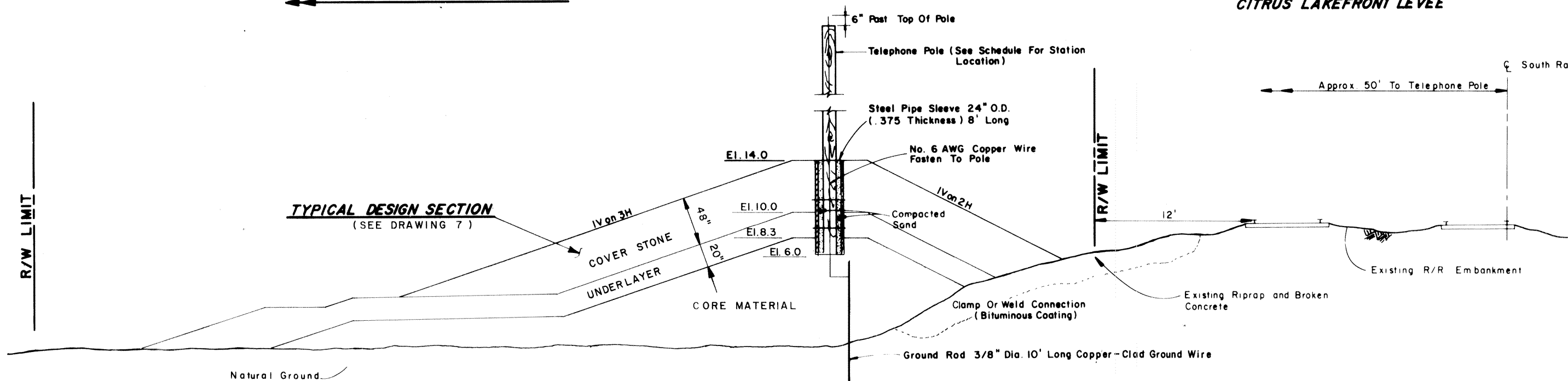


TYPICAL SECTION AT DRAIN PIPE

NOT TO SCALE

TO LAKE PONTCHARTRAIN

TO HAYNE BLVD. AND CITRUS LAKEFRONT LEVEE



TYPICAL POLE INSTALLATION-DETAIL

NOT TO SCALE

CATCH BASIN SCHEDULE	
APPROX. B/L STATIONS	
75 + 00	196 + 00
80 + 00	202 + 00
86 + 00	208 + 00
92 + 00	214 + 00
98 + 00	220 + 00
104 + 00	226 + 00
110 + 00	232 + 00
116 + 00	238 + 00
122 + 00	244 + 00
128 + 00	250 + 00
134 + 00	256 + 00
140 + 00	262 + 00
146 + 00	268 + 00
152 + 00	274 + 00
160 + 00	280 + 00
166 + 00	288 + 25
172 + 00	305 + 50
178 + 00	311 + 00
184 + 00	317 + 00
190 + 00	323 + 00
	329 + 00

POLE INSTALLATION SCHEDULE				
GR 77 + 30	GR 127 + 30	173 + 30	223 + 30	273 + 30
79 + 30	129 + 30	175 + 30	225 + 30	275 + 30
81 + 30	131 + 30	GR 177 + 30	GR 227 + 30	GR 277 + 30
83 + 30	133 + 30	179 + 30	229 + 30	279 + 30
85 + 30	135 + 30	181 + 30	231 + 30	281 + 30
GR 87 + 30	136 + 70	183 + 30	233 + 30	283 + 30
89 + 30	GR 138 + 12 *	185 + 30	235 + 30	285 + 30
91 + 30	139 + 30	GR 187 + 30	GR 237 + 30	287 + 30 *
93 + 30	141 + 30	189 + 30	239 + 30	GR 289 + 26.59
95 + 30	143 + 30	191 + 30	241 + 30	GR 304 + 40
GR 97 + 30	145 + 30	193 + 30	243 + 30	306 + 40
99 + 30	GR 147 + 30	195 + 30	245 + 30	308 + 40
101 + 30	149 + 30	GR 197 + 30	GR 247 + 30	310 + 20
103 + 30	151 + 30	199 + 70 *	249 + 30	312 + 10
105 + 30	153 + 30	201 + 30	251 + 30	313 + 60
GR 107 + 30	154 + 60	203 + 30	253 + 30	GR 315 + 30
109 + 30	156 + 00	205 + 30	255 + 30	317 + 30
111 + 30	GR 157 + 30	GR 207 + 30	GR 257 + 30	319 + 10
113 + 30	159 + 30	209 + 30	259 + 30	320 + 80
115 + 30	161 + 30	211 + 30	261 + 30	322 + 60
GR 117 + 30	163 + 30	213 + 30	263 + 30	324 + 00
119 + 30	165 + 30	215 + 30	265 + 30	GR 325 + 50 •
121 + 30	GR 167 + 30	GR 217 + 30	GR 267 + 30	GR 327 + 00 •
123 + 30	169 + 30	219 + 30	269 + 30	GR 328 + 50 •
125 + 30	171 + 30	221 + 30	271 + 30	GR 330 + 00 •

NOTES

- 1 TELEPHONE POLE - Removal of approximately 169 poles and the installation of approximately 125 as indicated on Pole Installation Schedule
- 2 TREATMENT - All poles shall be Southern Pine Treated with Pentachlorophenol in Petroleum
- 3 CLASS & SIZE - Req'd 4 each, Class 3, 45 ft. length
Req'd 12 each, Class 5, 35 ft. length
- 4 PIPE SLEEVES - Required 125 each Steel Pipe Sleeve, 24" OD (375 Thickness) 8 ft long Steel Pipe Sleeves shall be centered on pole and set 1.7 ft. into the core material. Void between the pole and the inside wall of pipe shall be filled with compacted sand
- 5 GROUND ROD & WIRE - Required 28 each Ground Rod 3/8" dia Copper-Clad, 10' long shall be placed at the bottom of the pipe sleeve and electrically connected either by clamping (Requiring Bituminous Coating) or welding to a number 6 AWG Copper wire which shall be fastened to the pole and extending to a height of 6" above the top of pole. Location of poles with ground rod and wire is indicated by the symbol "GR" on the Pole Installation Schedule

- 6 IDENTIFICATION - Contractor shall request from pole supplier that all poles meet SCB specifications and that each pole be branded 10' from the butt, with the following information.
Example: TYPE POLE & TREATMENT SIZE & CLASS YEAR MANUFACTURE

TYPE POLE & TREATMENT
SIZE & CLASS
YEAR
MANUFACTURE

South Central Bell's suggested source of inspected type pole is COLFAX CREOSOTEING COMPANY PINEVILLE, LA or equal.

- 7 CABLE CROSSING - Contractor shall contact South Central Bell representative shown below before installation of any cable crossing pole designated by asterisk on pole installation schedule

RONALD R. RIEGER, ENGR
SOUTH CENTRAL BELL
4101 PAUGER ST
NEW ORLEANS, LA 70122
PHONE (504) 245-5420

REVISION	DATE	DESCRIPTION	BY
2-7-85		REVISED DESIGN SECTION, Amend. 4	T.W.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

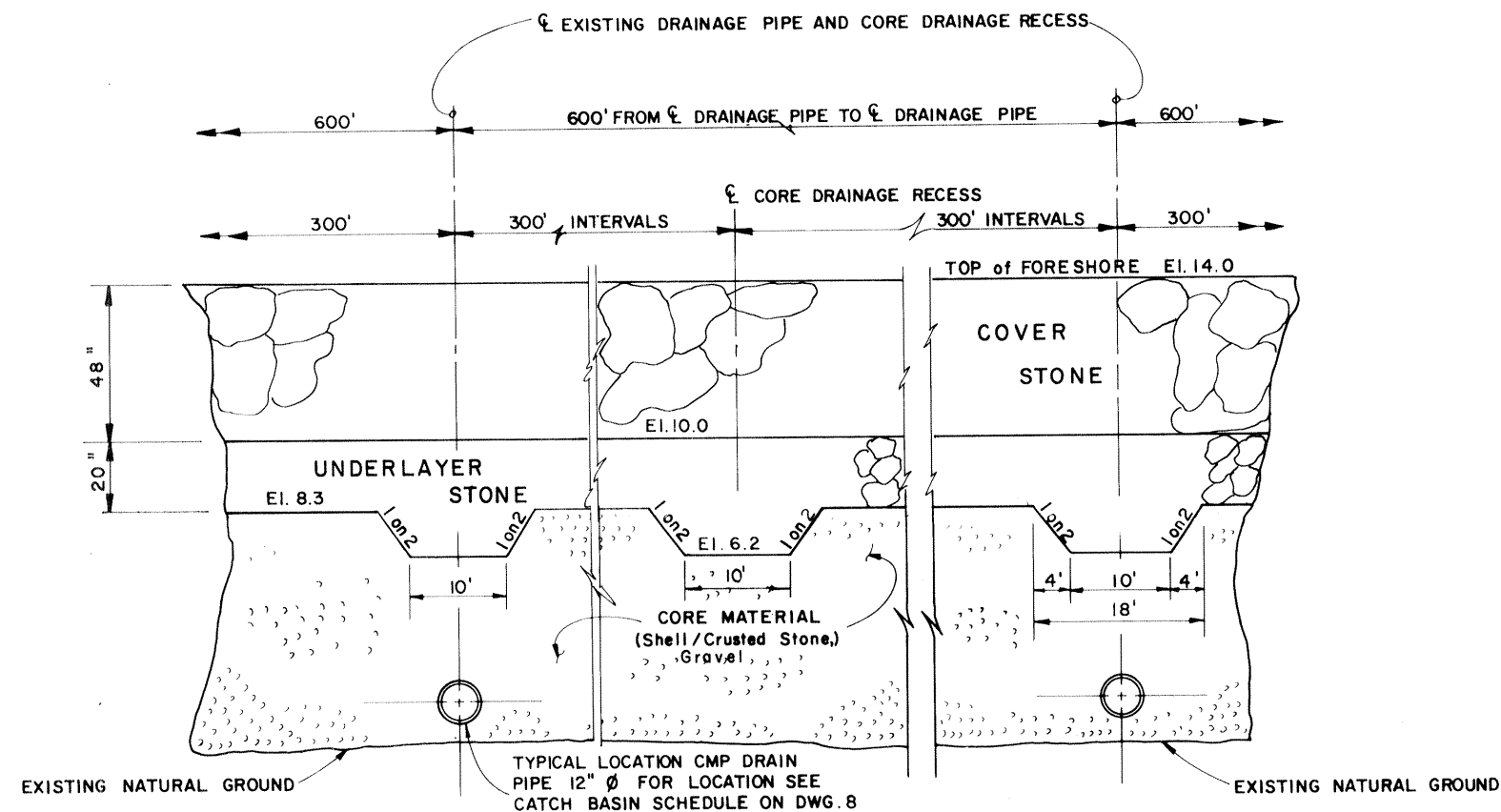
LAKE PONTCHARTRAIN LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN HIGH LEVEL PLAN
CITRUS LAKEFRONT LEVEE
LEVEE AND FORESHORE PROTECTION
ORLEANS PARISH, LOUISIANA
TYPICAL DRAIN PIPE AND POLE INSTALLATION

DESIGNED	DRAWN	CHECKED	DATE	SCALE	FILE NO.
T.W.W.	L.A.H.	R.P.L.	DEC 1984	AS SHOWN	H-8-29696
SUBMITTED			SPEC. NO.	DWG	8 of 15
Ronald R. Rieger			DACW29-85-B-0015		



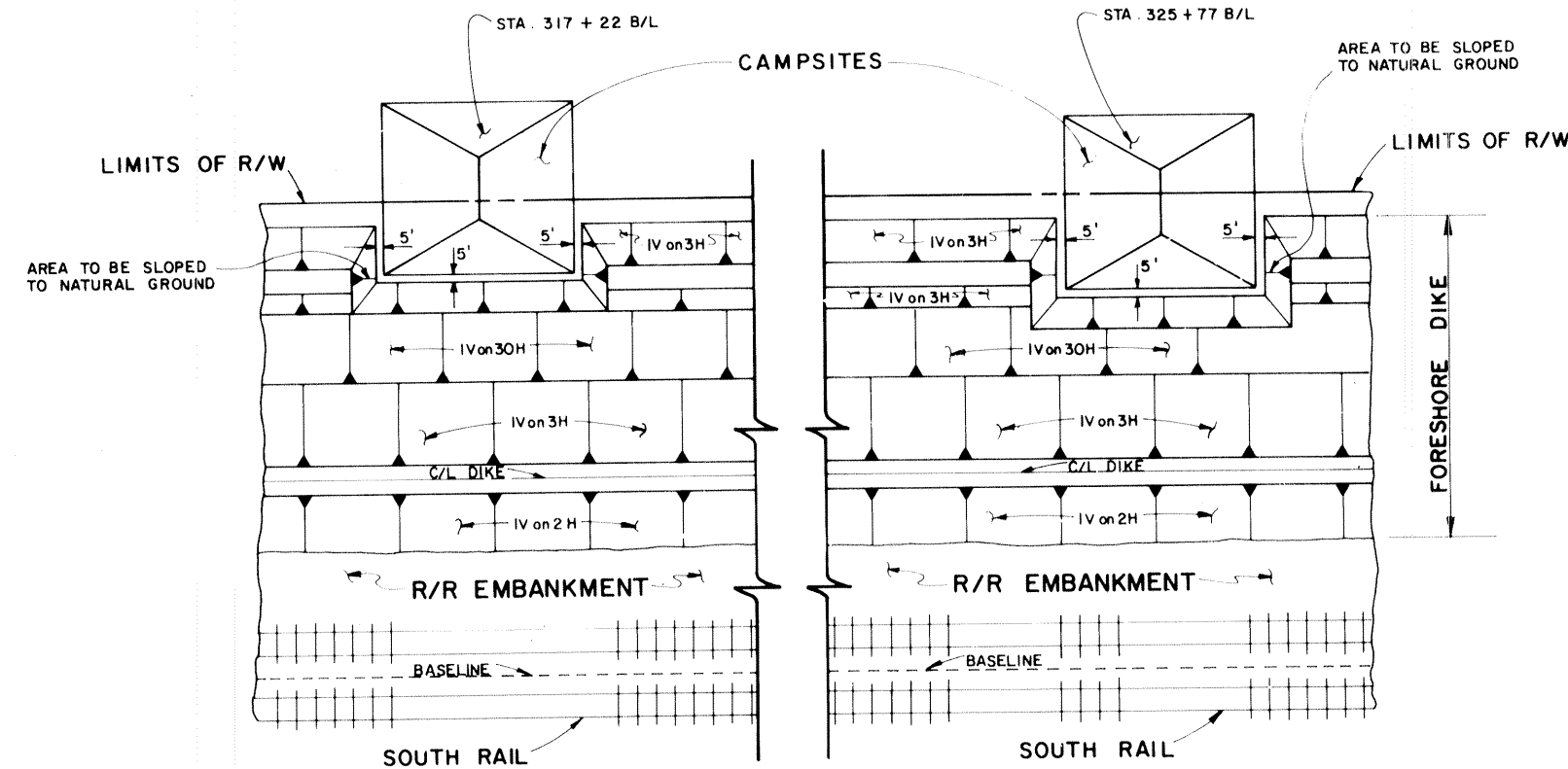
SAFETY IS A PART OF YOUR CONTRACT

NOTE:
The Contractor shall adjust the Foreshore Dike Toe, as necessary, where campsites are located within the Foreshore Design Section. No work will be allowed beneath the campsites, and the Contractor will be required to maintain a clearance of 5 feet from the camps support pilings. Extreme care shall be exercised when working in the vicinity of these campsites, so as not to damage the camps and their supporting pilings and bracing.

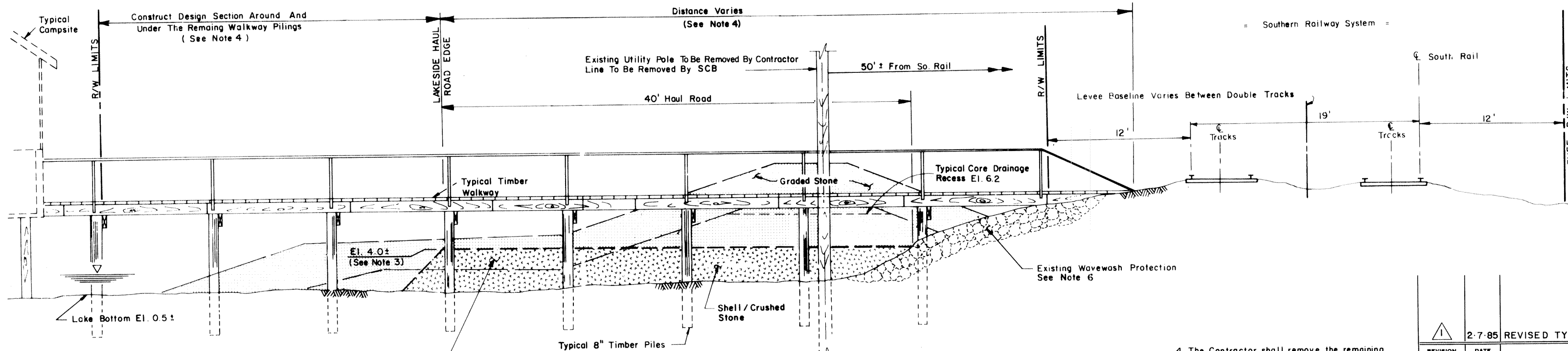


NOTE: AT EACH EXISTING DRAINAGE PIPE THE CORE MATERIAL SHALL BE SHAPED TO THE CONFIGURATION SHOWN ABOVE. EACH CORE RECESS WILL BE LOCATED AT 300' INTERVALS, STARTING AT BASELINE STA. 75+00 AND EXTENDING TO STA. 329+00.

PROFILE ALONG C/L OF FORESHORE DIKE
TYPICAL CORE DRAINAGE RECESS
NOT TO SCALE



TYPICAL AT CAMPSITES THAT ARE LOCATED WITHIN THE FORESHORE DIKE DESIGN SECTION
FORESHORE DIKE OFFSET DETAIL
NOT TO SCALE



TYPICAL HAUL ROAD LOCATION
NOT TO SCALE

Before Placement Of Stone Materials, Place Excess Shell/Crushed Stone Into Core Section. Shell/Crushed Stone In Excess Of That Required For The Core Design Section, Including Tolerance Shall Be Removed From The Job Site Prior To Measurement For Payment.

1. Outside Of Haul Road Limits Timber Piles Are To Remain In Place For Walkway Reassembly By Owners.
2. Height Of Haul Road May Be Adjusted As Necessary For Access Along The Shoreline.
3. Timber Piling And Walkway In This Area Shall Be Removed Only As Necessary To Accommodate Haul Road At The Option Of The Contractor. During Clearing And Haul Road Construction Operations, The Contractor Shall Remove Completely That Portion Of Each Walkway (Piles, Supports And Plank Surface) That Will Be Necessary For The Construction Of The Haul Road. At The Option Of The Contractor The Piles Within This Area May Be Pulled Or Cut Off At The Ground Surface Or Within 12" Of The Water Surface.

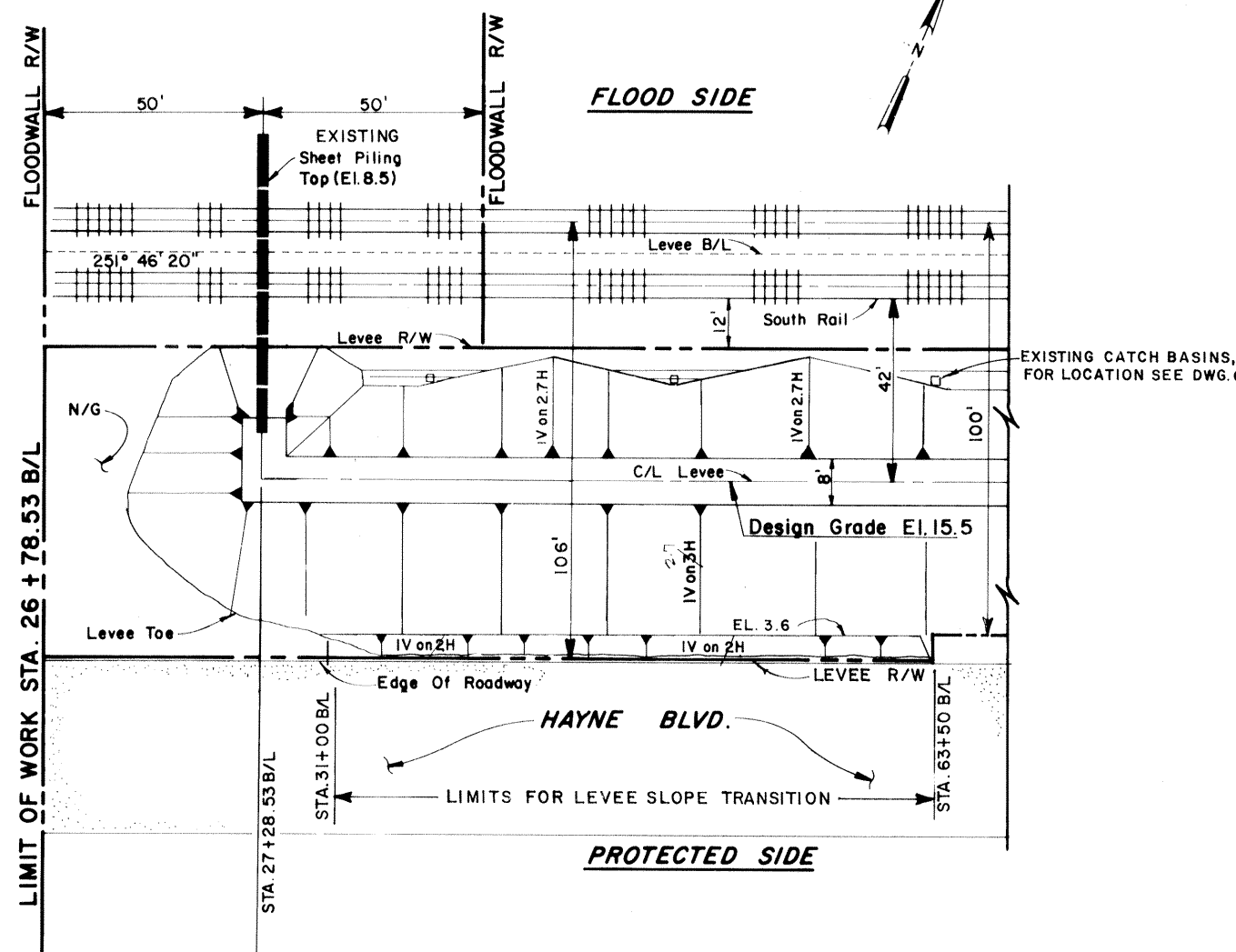
4. The Contractor shall remove the remaining Portion Of Walkway Support And Plank Surface During Construction Of The Foreshore Dike. The Contractor Shall Conduct His Operations So As Not To Damage The Walkway Piling In This Area. If The Contractor Damages Any Piling In This Area, He Will Be Required To Replace Them At His Expense.
5. Settlement gage locations are approximate. Location and/or additional settlement gages to be agreed upon in field between Contractor and Contracting Officer.
6. The original ground line prior to the placement of Core will be the top of existing wave wash protection and the lake bottom.

REVISION	DATE	DESCRIPTION	BY
2-7-85	REVISED	TYP. CORE DRAINAGE RECESS, Amend 4	T.W.

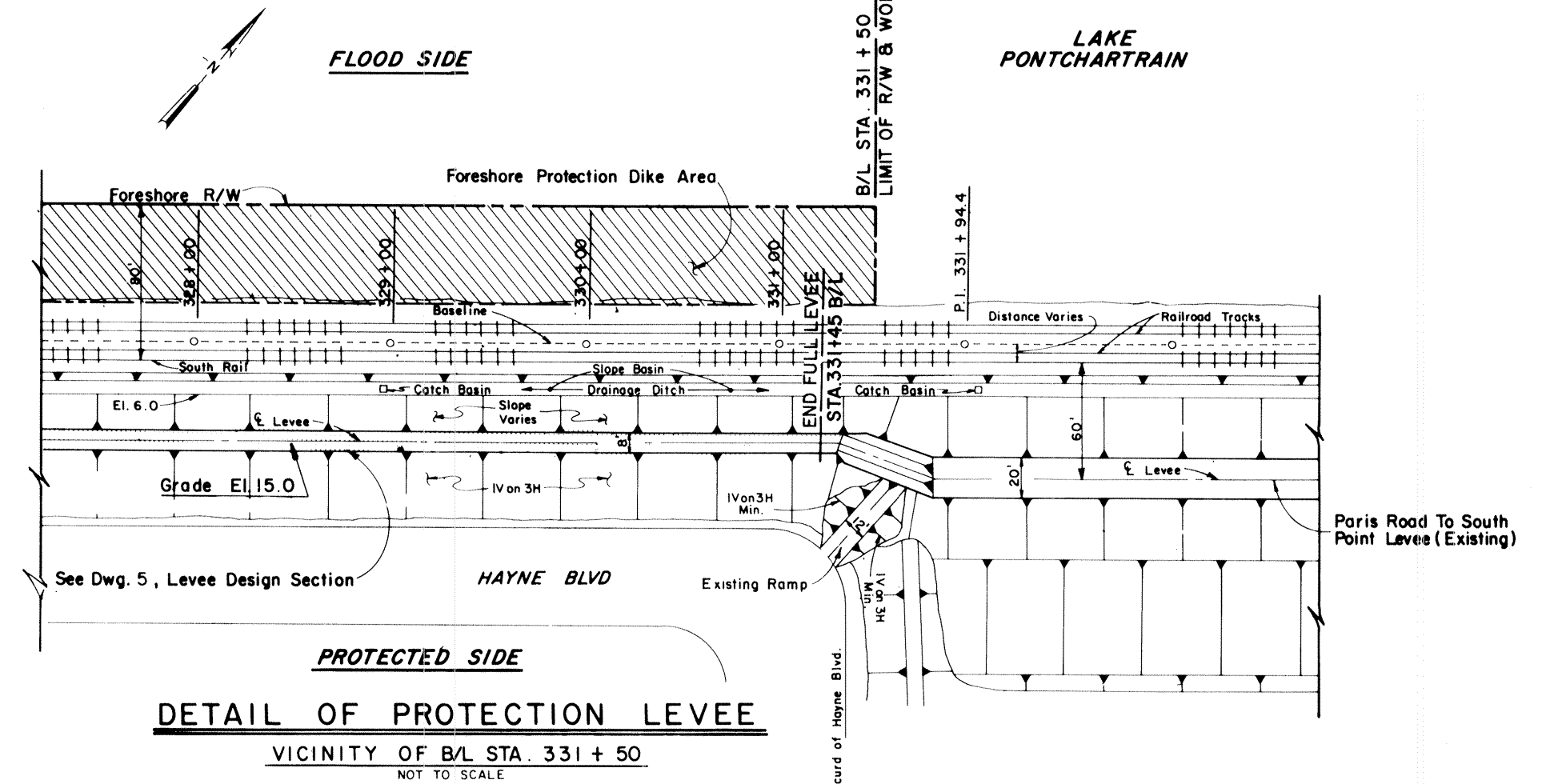
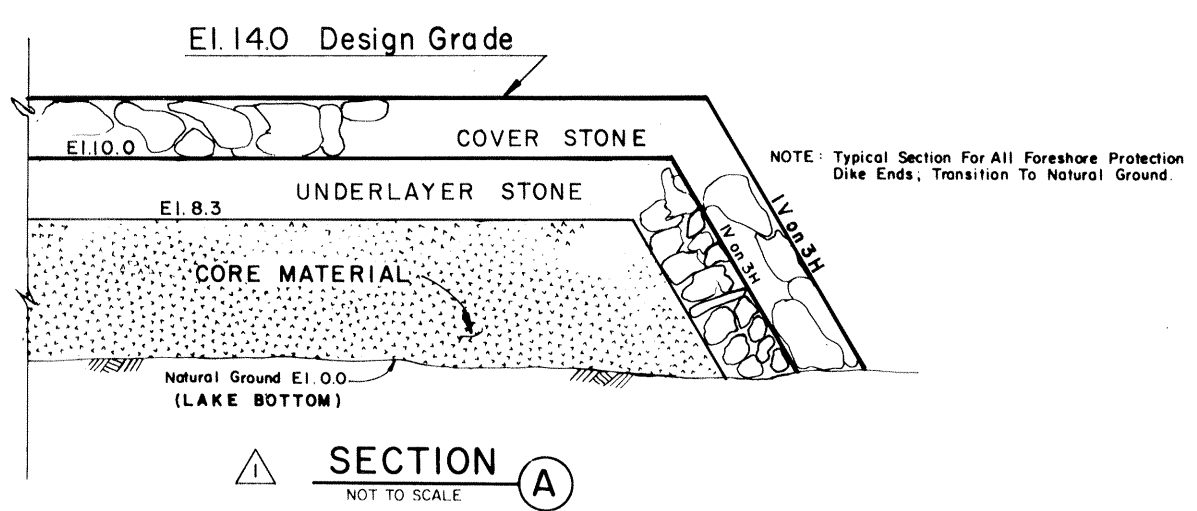
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA			
MISCELLANEOUS DETAILS			
DESIGNED	DRAWN	CHECKED	DATE
T.W.W.	L.A.H.	R.P.L.	DEC 1984
SUBMITTED	SCALE	FILE NO.	
Small P. Lee	AS SHOWN	H-8-29696	
SPEC. NO.		DWG. 9 OF 15	
DACW29-85-B-0015			



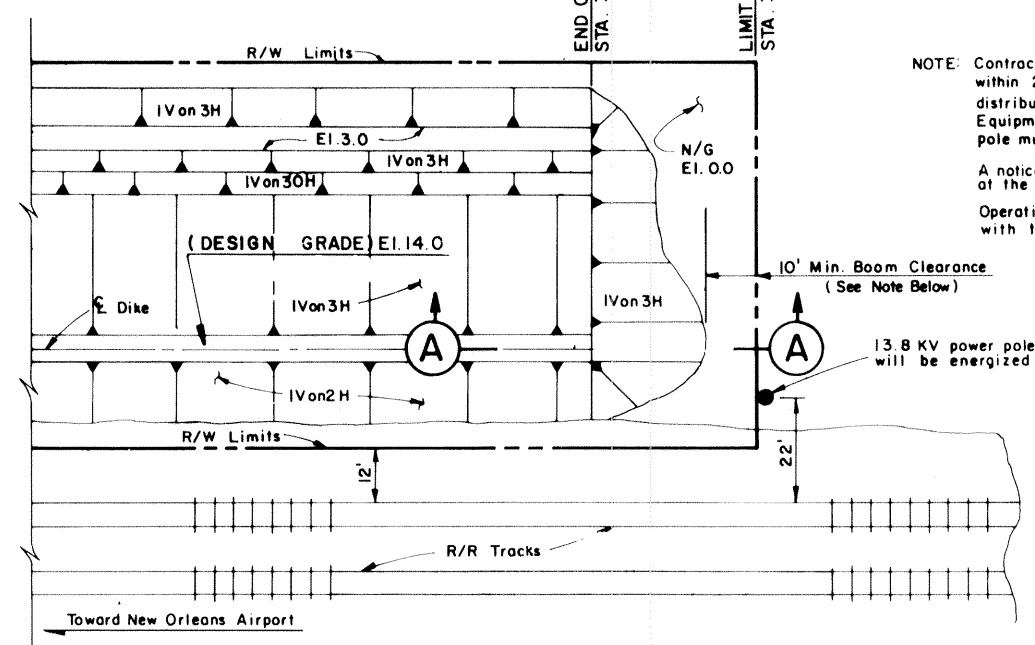
**SAFETY IS A PART
OF YOUR CONTRACT**



2 **DETAIL OF PROTECTION LEVEE**
VICINITY OF B/L STA. 27 + 28.53
NOT TO SCALE



2 **DETAIL OF PROTECTION LEVEE**
VICINITY OF B/L STA. 331 + 50
NOT TO SCALE



2 **DETAIL OF FORESHORE DIKE END**
Vicinity Sta. 331+50 B/L
NOT TO SCALE

NOTE: Contractor's plant shall not be placed or pass within 20 feet of the overhead transmission or distribution lines in the vicinity of Sta 331 + 50 B/L. Equipment, or any part, operating adjacent to the power pole must maintain a minimum clearance of 10 feet.

A notice of the minimum required clearance shall be posted at the operator's position.

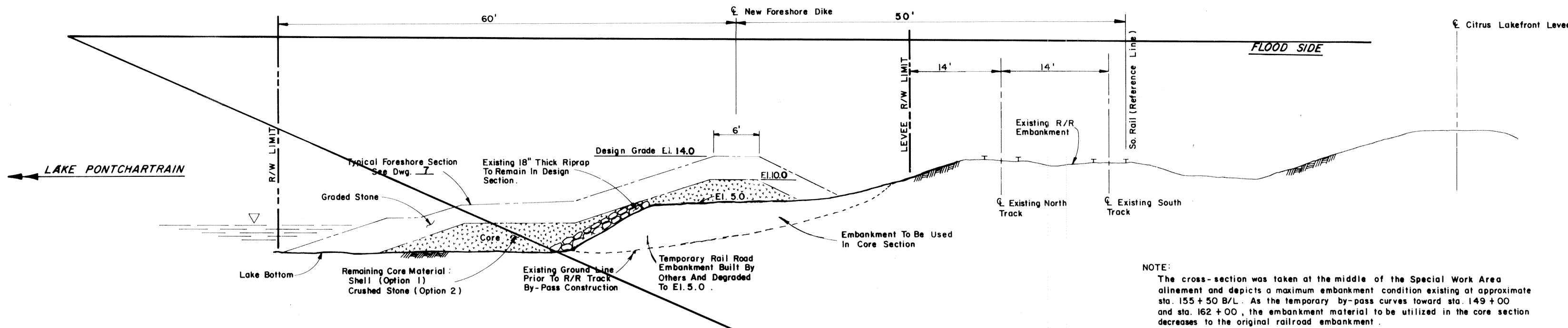
Operation adjacent to overhead lines shall not be initiated until coordinated with the Contracting Officer and the Utility Officials.

13.8 KV power pole with lines extended toward Little Woods will be energized during construction operations in this vicinity.

2	5-30-86	REVISED LEVEE SLOPES, Mod.	T.W.
1	2-7-85	REVISED SECTION (A), Amend 4	T.W.

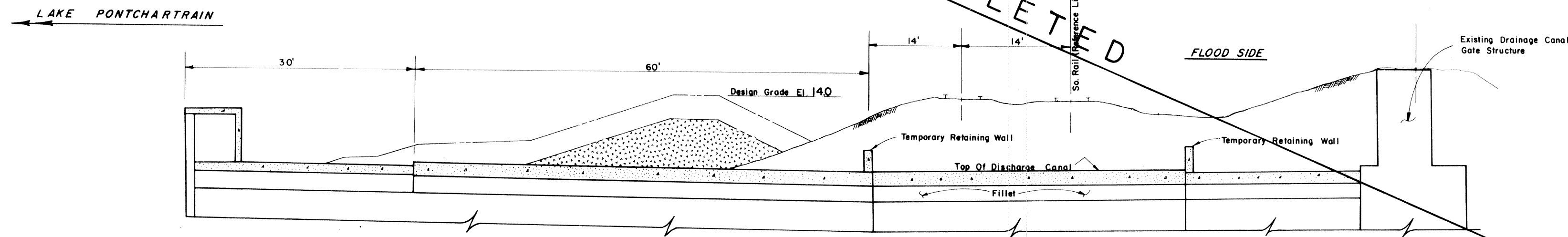
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.				
LAKE PONTCHARTRAIN LOUISIANA AND VICINITY LAKE PONTCHARTRAIN HIGH LEVEL PLAN CITRUS LAKEFRONT LEVEE LEVEE AND FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA				
MISCELLANEOUS DETAILS				
DESIGNED	DRAWN	CHECKED	DATE	SCALE
T.W.W.	L.A.H.	R.P.L.	DEC 1984	AS SHOWN
SUBMITTED	SPEC NO		FILE NO	
Donald P. Lee	DACW29-85-B-0015		H-8-29696	
	DWG	10	OF	15



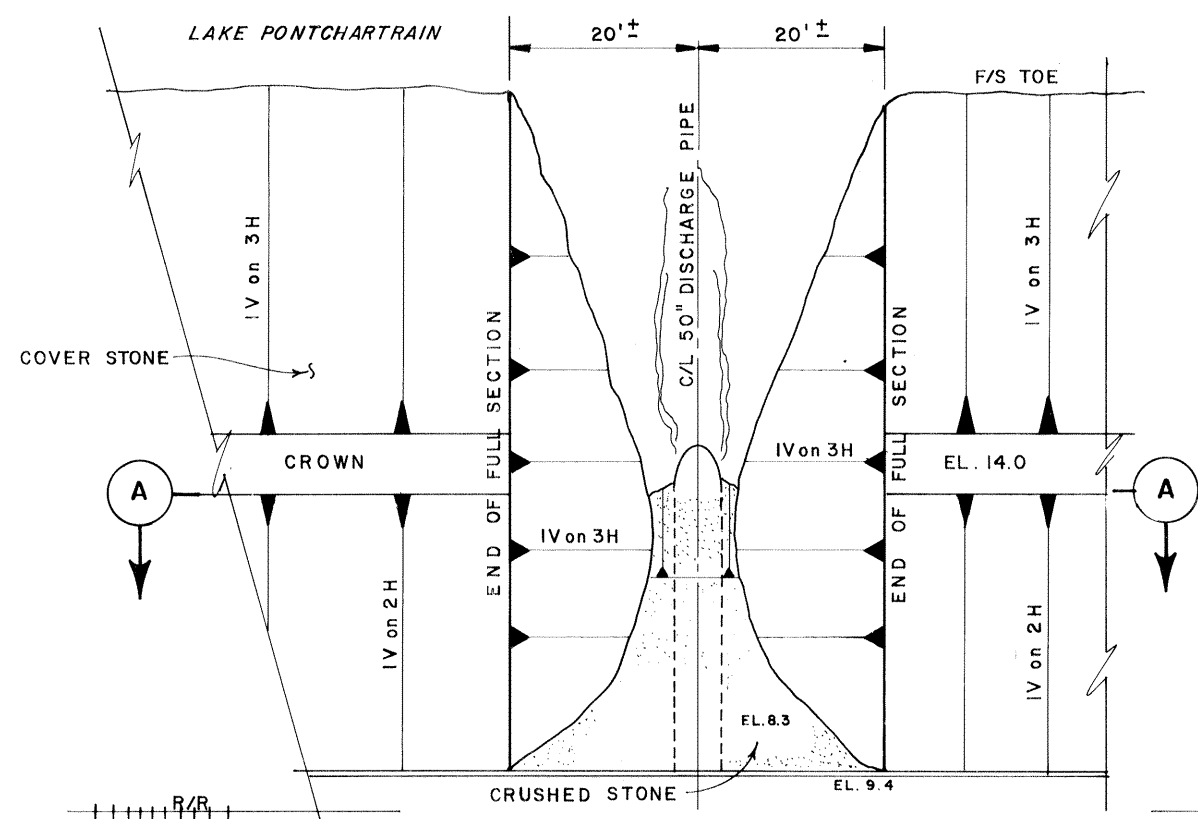


NOTE:
The cross-section was taken at the middle of the Special Work Area alignment and depicts a maximum embankment condition existing at approximate sta. 155 + 50 B/L. As the temporary by-pass curves toward sta. 149 + 00 and sta. 162 + 00, the embankment material to be utilized in the core section decreases to the original railroad embankment.

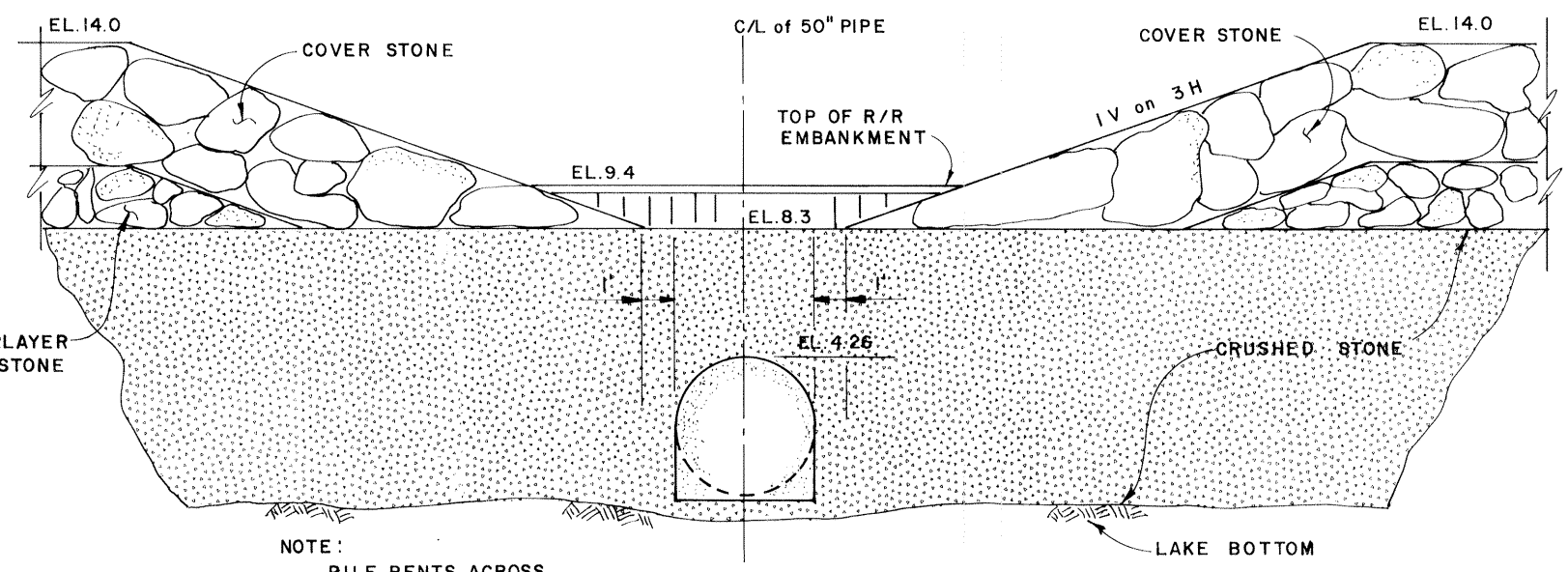
Existing Double Track By-Pass Embankment Area
Between Approx. Sta. 149 + 00 B/L And Sta 162 + 00 B/L
DELETED
SPECIAL WORK AREA
NOT TO SCALE



(Vicinity of Sta. 155 + 50 B/L)
SECTION AT DISCHARGE CANAL
NOT TO SCALE



COVER AT CITRUS PUMP STATION DISCHARGE
(VICINITY OF STA. 155 + 50 B/L)
N.T.S.



NOTE:
PILE BENTS ACROSS PIPE NOT SHOWN

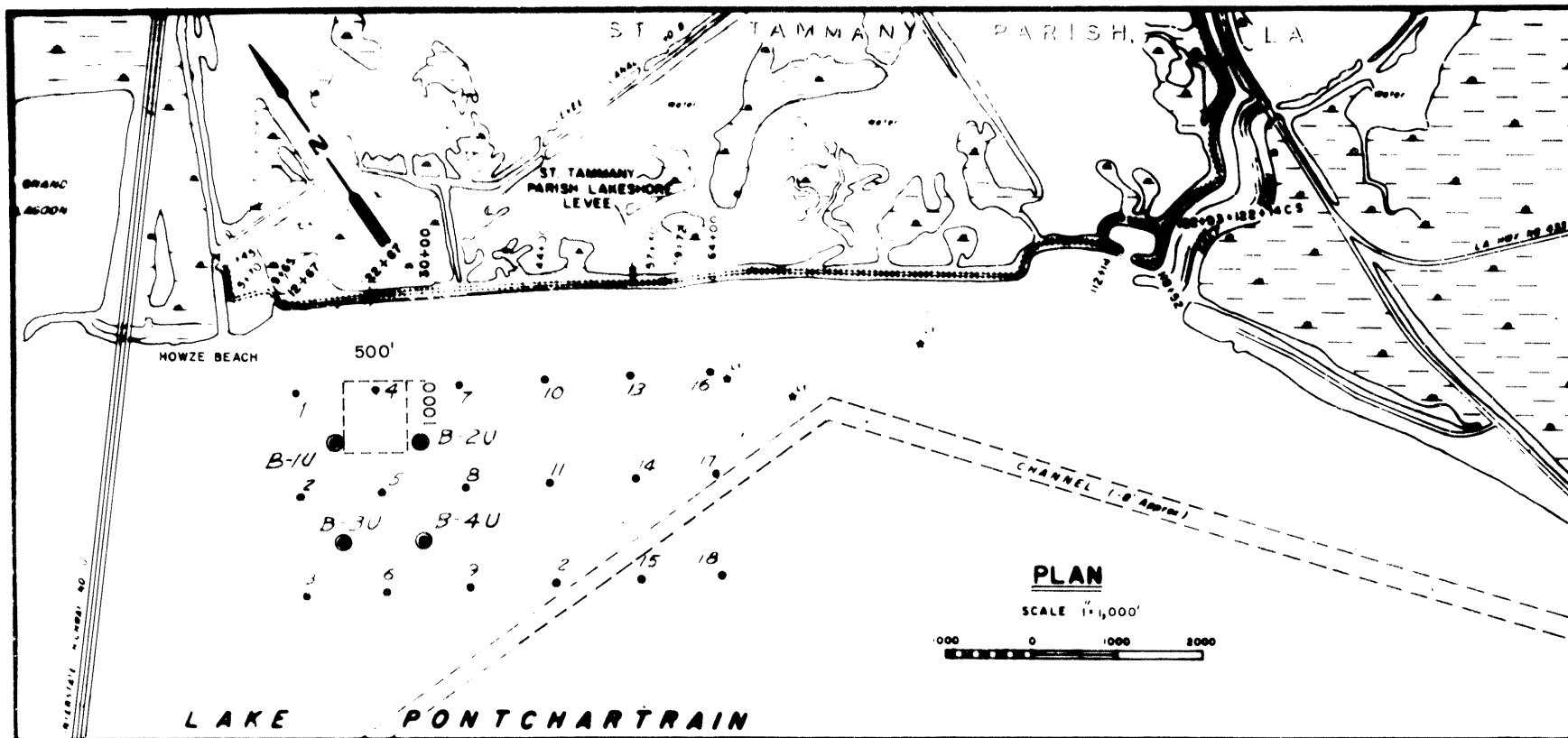
SECTION A
N.T.S.

REVISION	DATE	DESCRIPTION	BY
2	4-9-86	DELETED "SPECIAL WORK AREA" and "SECTION AT DISCHARGE CANAL". ADDED "COVER AT CITRUS PUMP STATION DISCHARGE", Mod.	T.W.
1	2-7-85	REVISED "SPECIAL WORK AREA", Amend. 4	T.W.

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN HIGH LEVEL PLAN
CITRUS LAKEFRONT LEVEE
LEVEE AND FORESHORE PROTECTION
ORLEANS PARISH, LOUISIANA
SPECIAL WORK AREA
Sta 149 + 00 B/L TO Sta 162 + 00 B/L

DESIGNED	DRAWN	CHECKED	DATE	SCALE	FILE NO.
T.W.W.	LAH	RPL	DEC 1984	AS SHOWN	H-8-29696
SUBMITTED	DATE	SPEC. NO.	DWG. NO.	SHEET	OF
...	DACW29-85-B-0015	11	15



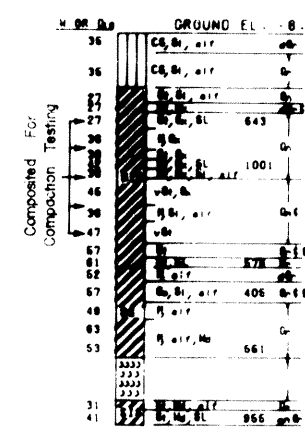
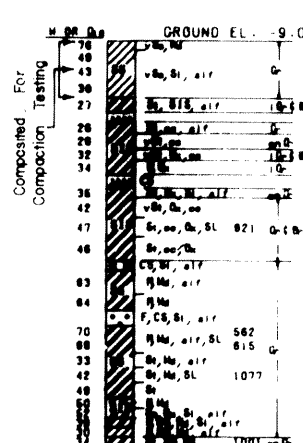
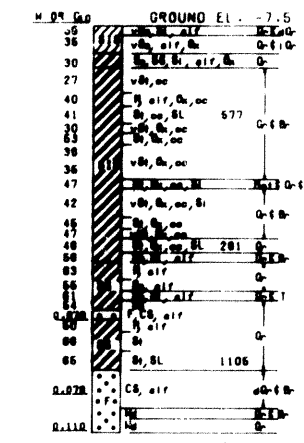
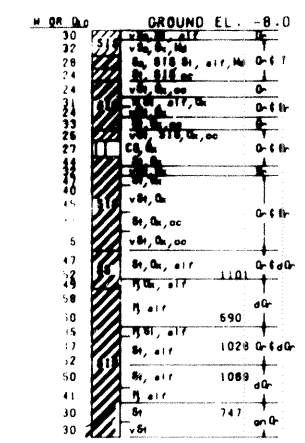
BOR. B-1U
STA. 17+67
1625 FT. FROM B/L
7 MAR 68

BOR. B-2U
STA. 37+67
1625 FT. FROM B/L
1 MAR 68

BOR. B-4U
STA. 37+67
2875 FT. FROM B/L
6 MAR 68

BOR. B-3U
STA. 17+67
2875 FT. FROM B/L
14 APR 68

ELEVATIONS IN FEET M.S.L.



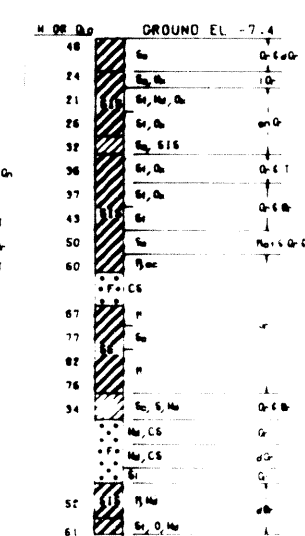
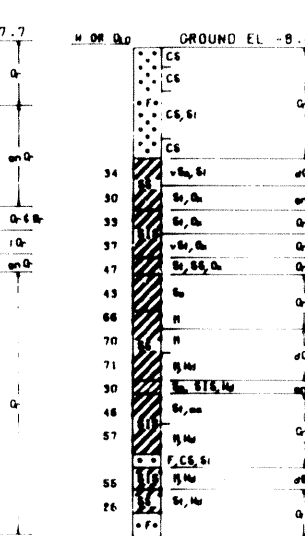
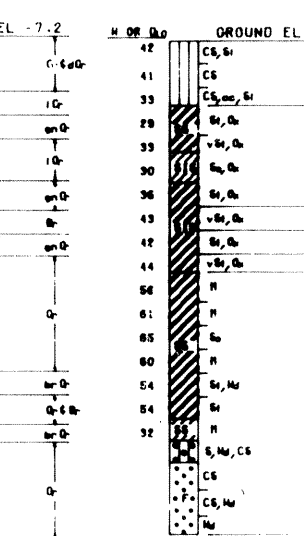
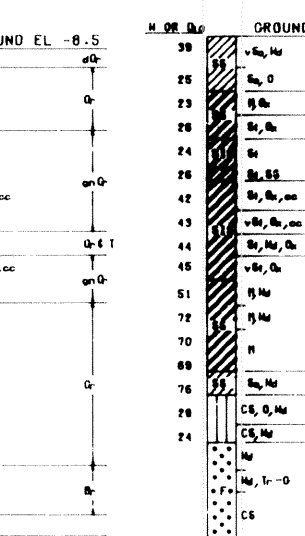
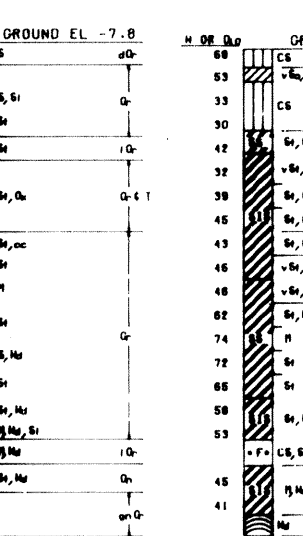
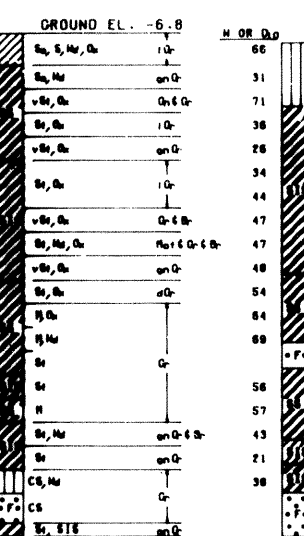
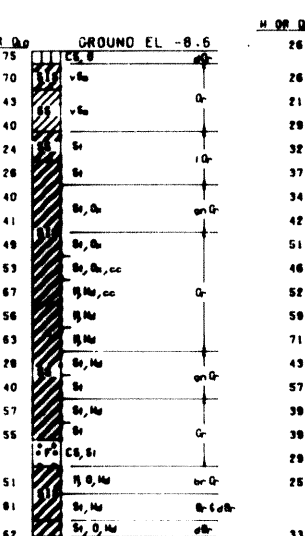
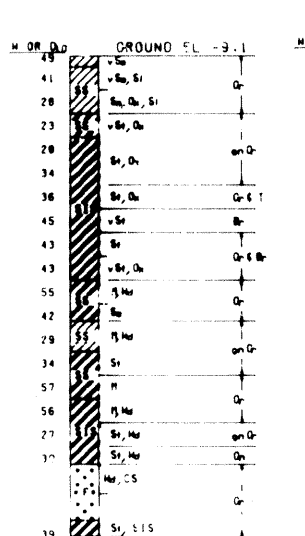
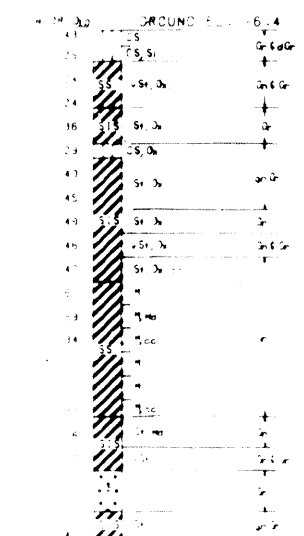
ELEVATIONS IN FEET M.S.L.



Safety is a Part of Your Contract

BORING NO. 1 STA. 12+67-2253 FT. RT. OF B/L STR. 12+67-3500 FT. RT. OF B/L STR. 22+67-1000 FT. RT. OF B/L STR. 22+67-2250 FT. RT. OF B/L STR. 22+67-3500 FT. RT. OF B/L STR. 32+67-1000 FT. RT. OF B/L STR. 32+67-2250 FT. RT. OF B/L STR. 32+67-3500 FT. RT. OF B/L STR. 42+67-1000 FT. RT. OF B/L STR. 42+67-2250 FT. RT. OF B/L STR. 42+67-3500 FT. RT. OF B/L STR. WATER SURFACE = 0.4 M.S.L. WATER SURFACE = 0.4 M.S.L. WATER SURFACE = 0.4 M.S.L. WATER SURFACE = 0.4 M.S.L. WATER SURFACE = 0.4 M.S.L. WATER SURFACE = 0.1 M.S.L. WATER SURFACE = 0.5 M.S.L. WATER SURFACE = 0.1 M.S.L. WATER SURFACE = 0.5 M.S.L.

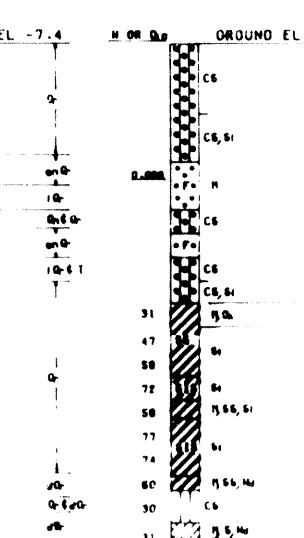
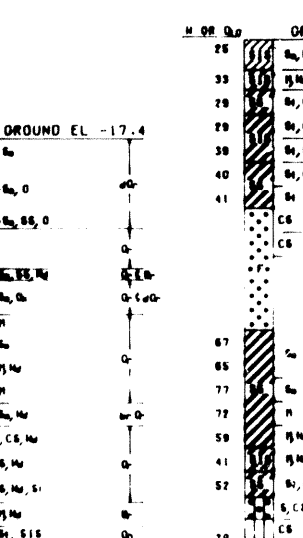
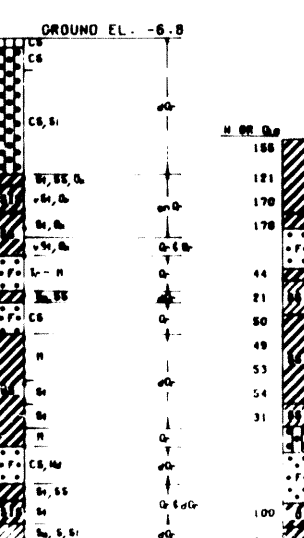
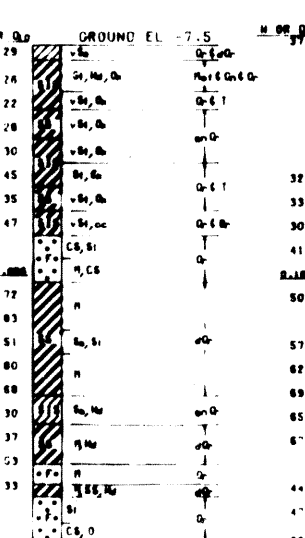
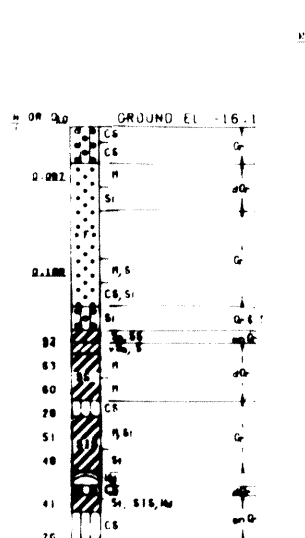
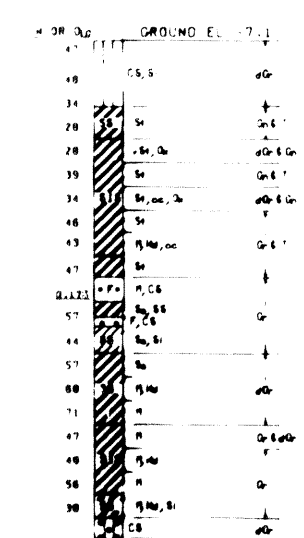
ELEVATIONS IN FEET M.S.L.



ELEVATIONS IN FEET M.S.L.

BORING NO. 11 STA. 42+67-3500 FT. RT. OF B/L STR. 52+67-1000 FT. RT. OF B/L STR. 52+67-2250 FT. RT. OF B/L STR. 52+67-3500 FT. RT. OF B/L STR. 62+67-1000 FT. RT. OF B/L STR. 62+67-2250 FT. RT. OF B/L STR. 62+67-3500 FT. RT. OF B/L STR. WATER SURFACE = 0.6 M.S.L. WATER SURFACE = 0.6 M.S.L. WATER SURFACE = 0.7 M.S.L. WATER SURFACE = 0.4 M.S.L. WATER SURFACE = 0.4 M.S.L. WATER SURFACE = 0.7 M.S.L. WATER SURFACE = 0.7 M.S.L. WATER SURFACE = 0.7 M.S.L.

ELEVATIONS IN FEET M.S.L.



NOTES:
FOR GENERAL NOTES, SEE DWG. NO.
WATER CONTENTS SHOWN ARE BASED ON WEIGHT OF OVEN DRY SOILS.
STRATUM CHANGES ARE ASSUMED TO OCCUR AT AN ELEVATION HALFWAY.
GENERAL TYPE SOIL SAMPLES TAKEN WITH A 1 7/8" I.D. CORE SAMPLER.
UNDISTURBED SAMPLES WERE TAKEN WITH A 5 INCH DIAMETER STEEL TUBE PISTON TYPE SAMPLER.

LEGEND

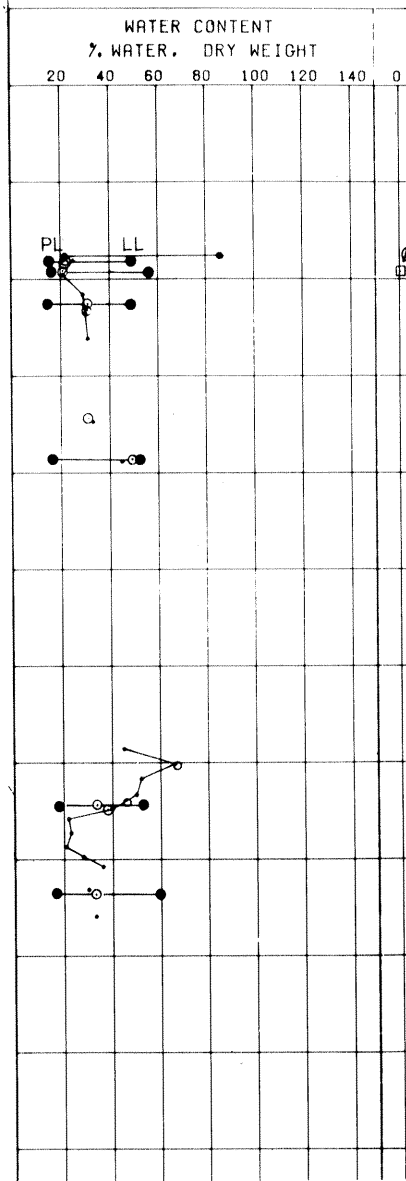
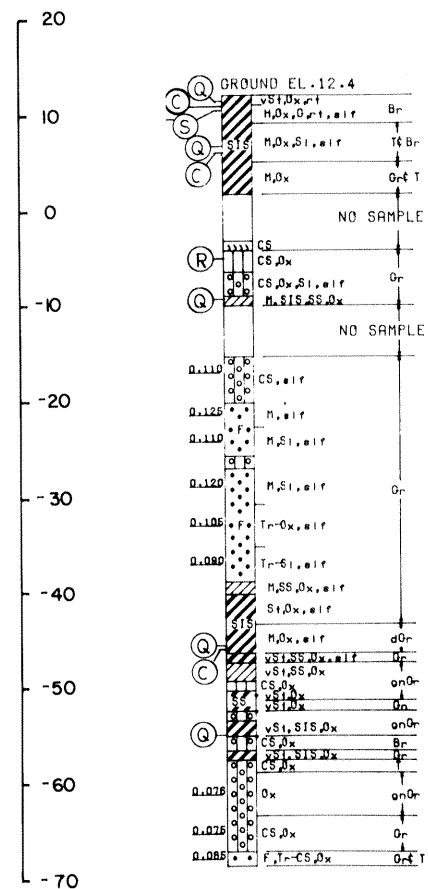
- GENERAL TYPE BORING
- UNDISTURBED BORING

REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN HIGH LEVEL PLAN CITRUS LAKEFRONT LEVEE LEVEE AND FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA HOWZE BEACH BORROW AND SOIL BORING LOGS			
DESIGNED	DRAWN	CHECKED	DATE
T.W.W.	L.H.	R.P.L.	DEC 1984
SCALE		AS SHOWN	H-8-29696
SHEET NO.		12	OF 15
PROJECT NO.		DAW 28-85-B-0015	

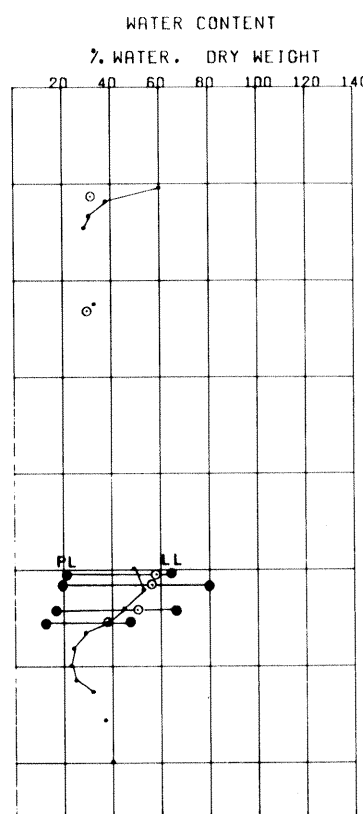
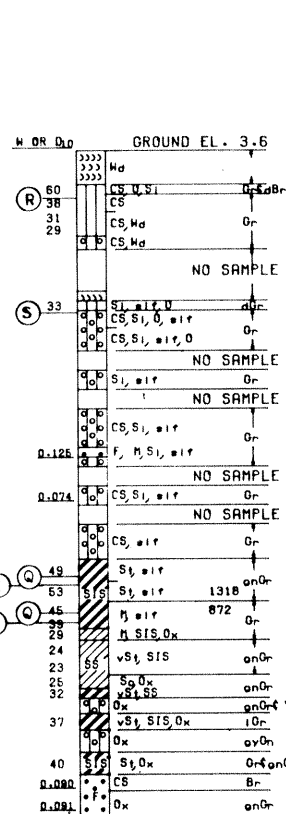
SAFETY IS A PART OF YOUR CONTRACT

BOR. 12-ULC
 STA. 43+00
 ON LEV. C/L
 21-22 SEP. 82
 GROUND EL. 12.4

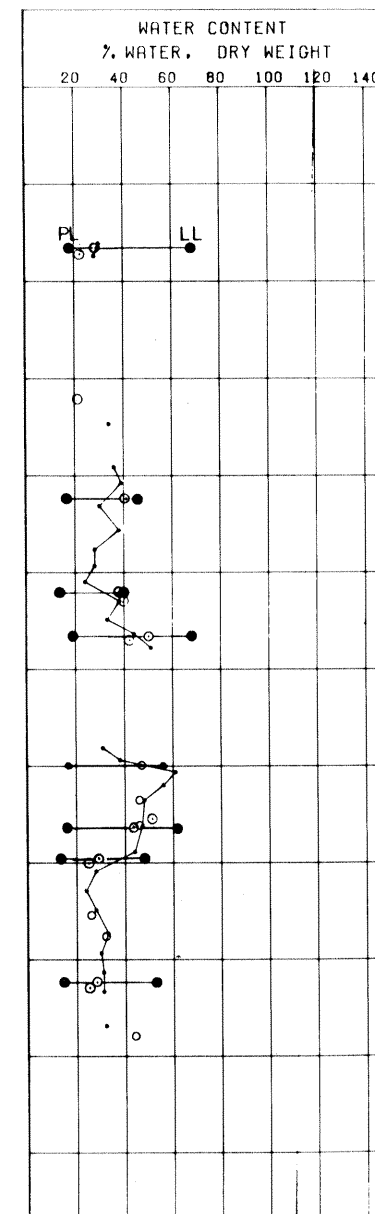
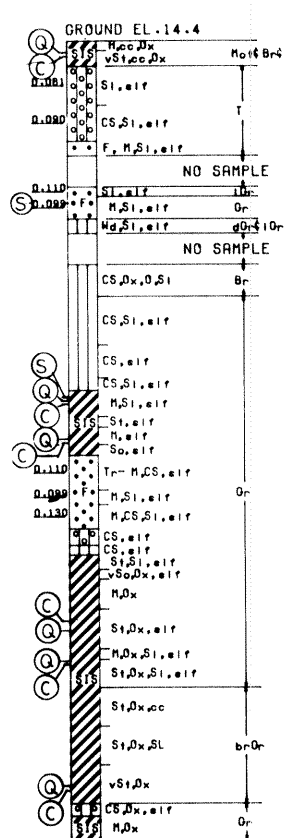
ELEVATION IN FEET NGVD.



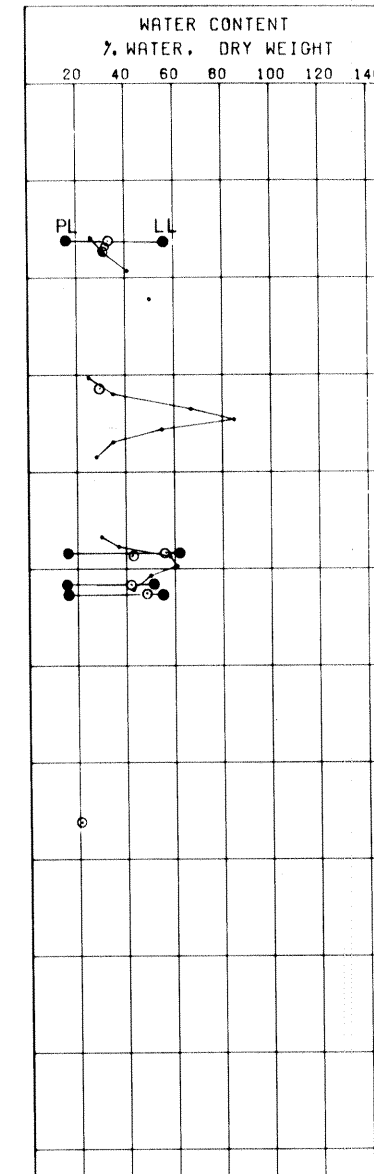
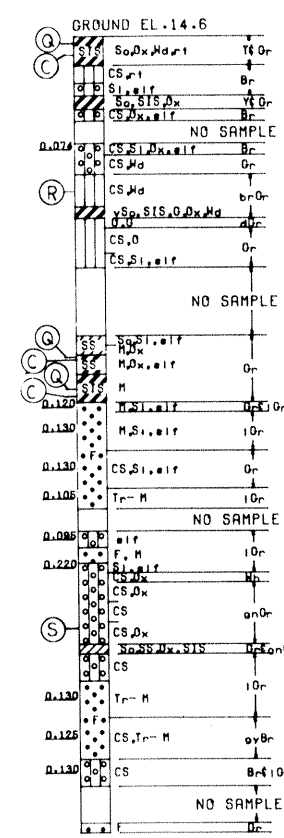
BOR. 14-ULC
 STA. 91+59
 65 FT. LAKESIDE B/L
 8-9 NOV. 1982



BOR. 13-ULC
 STA. 115+00
 ON LEV. C/L
 22 SEP. 82 - 25 OCT. 82
 GROUND EL. 14.4



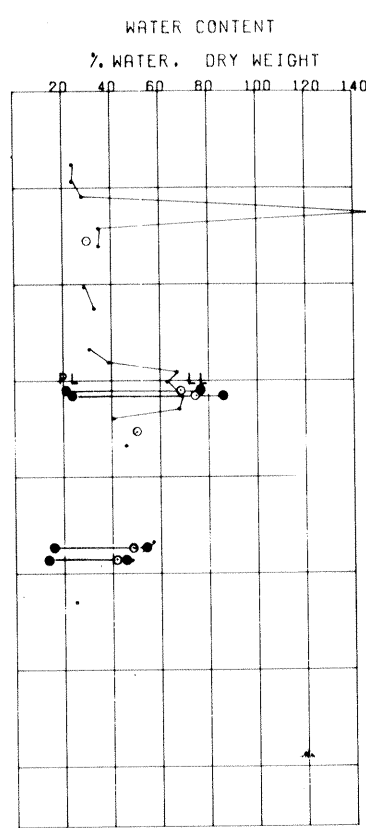
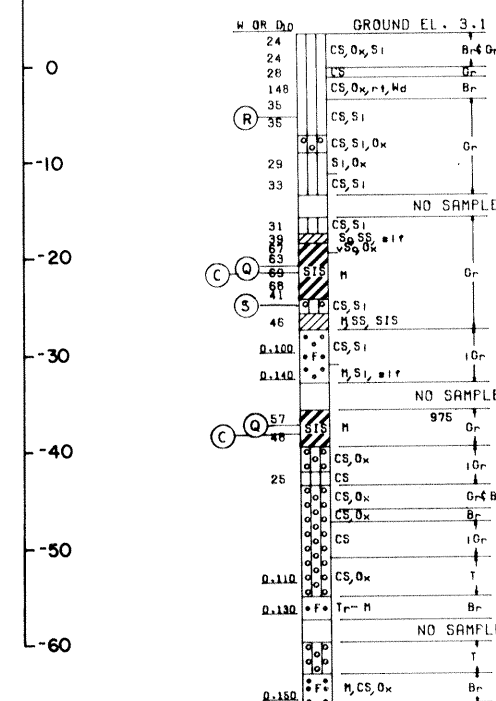
BOR. 15-ULC
 STA. 217+00
 ON LEV. C/L
 26-27 OCT. 82
 GROUND EL. 14.6



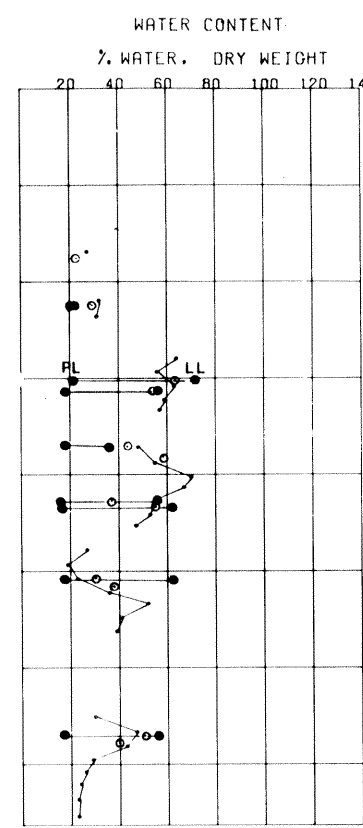
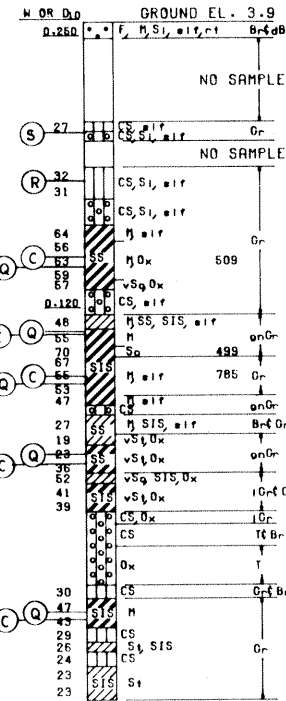
ELEVATION IN FEET NGVD.

BOR. 16-ULC
 STA. 235+73
 74 FT. LAKESIDE OF B/L
 2-4 NOV. 82

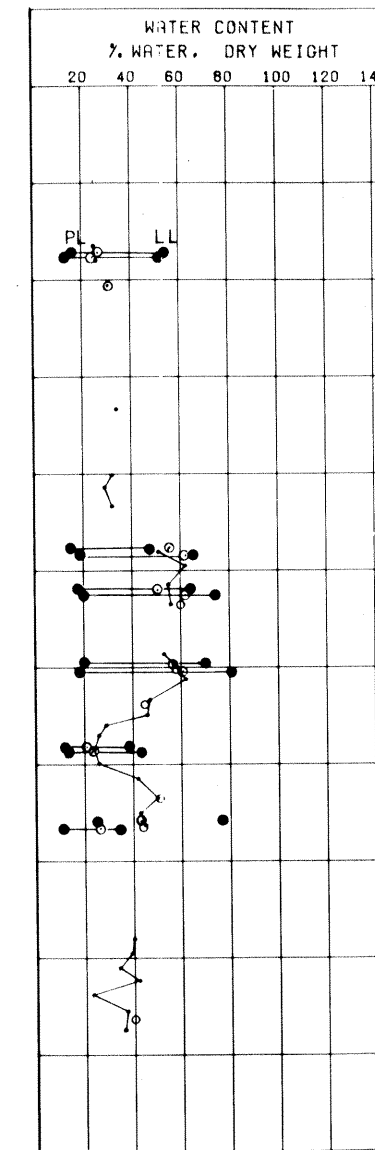
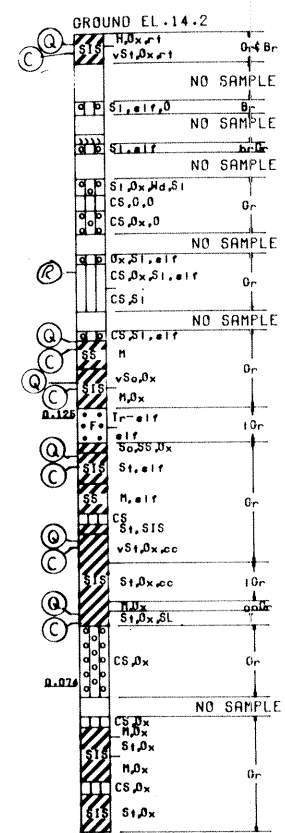
ELEVATION IN FEET NGVD.



BOR. 18-ULC
 STA. 318+45
 60 FT. LAKESIDE B/L
 1-4 NOV. 82



BOR. 17-ULC
 STA. 319+00
 ON C/L LEV.
 26-27 OCT. 82
 GROUND EL. 14.2



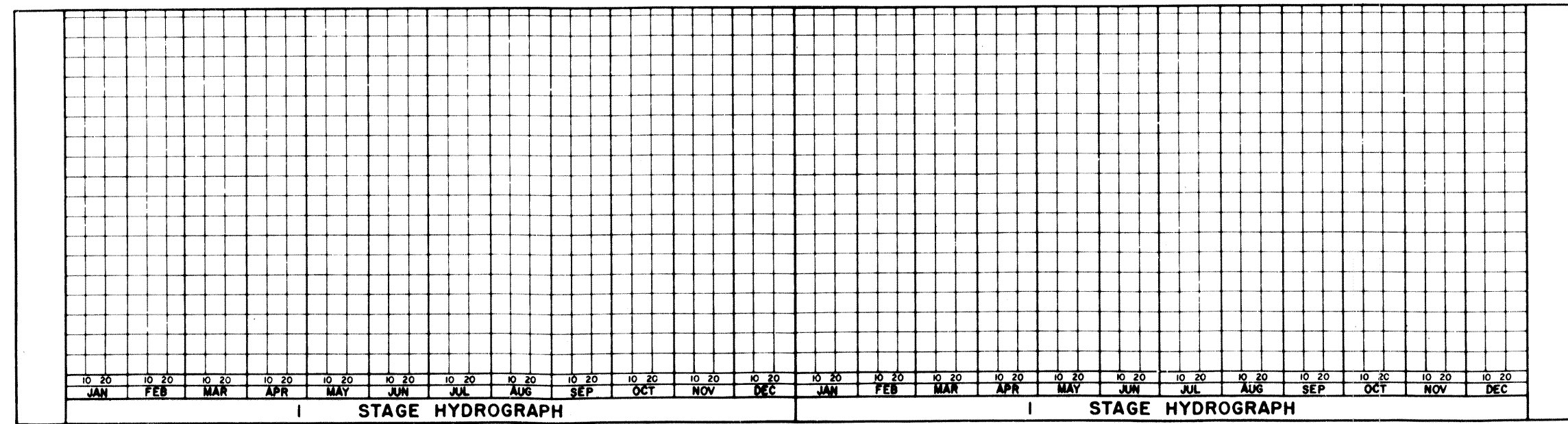
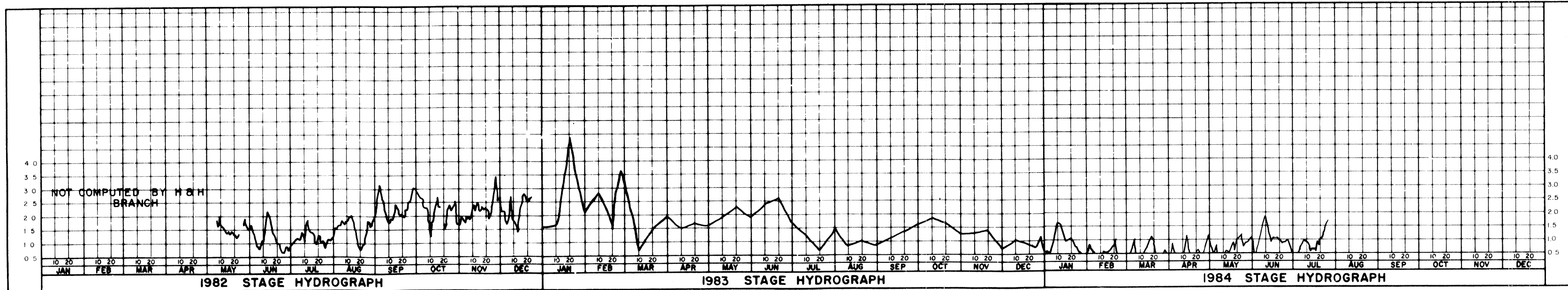
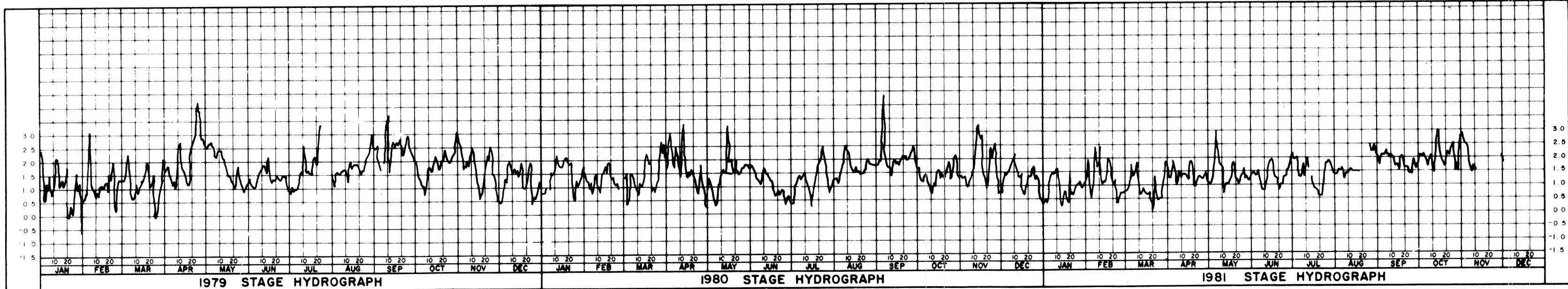
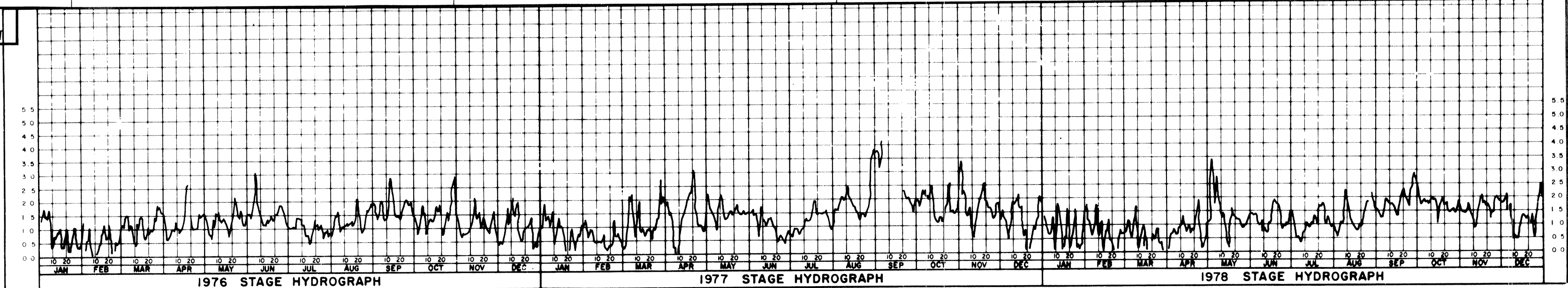
ELEVATION IN FEET NGVD.

REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN LOUISIANA AND VICINITY LAKE PONTCHARTRAIN HIGH LEVEL PLAN CITRUS LAKEFRONT LEVEE LEVEE AND FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA LEVEE AND FORESHORE DIKE SOIL BORING LOGS			
DESIGNED:	DRAWN:	CHECKED:	DATE:
T.W.W.	L.A.H.	R.P.L.	DEC 1984
SCALE:		FILE NO.:	
AS SHOWN		H-8-29696	
SUBMITTED:		SPEC NO.:	
DWCW29-85-B-0015		DWS 13 of 15	



SAFETY IS A PART
OF YOUR CONTRACT

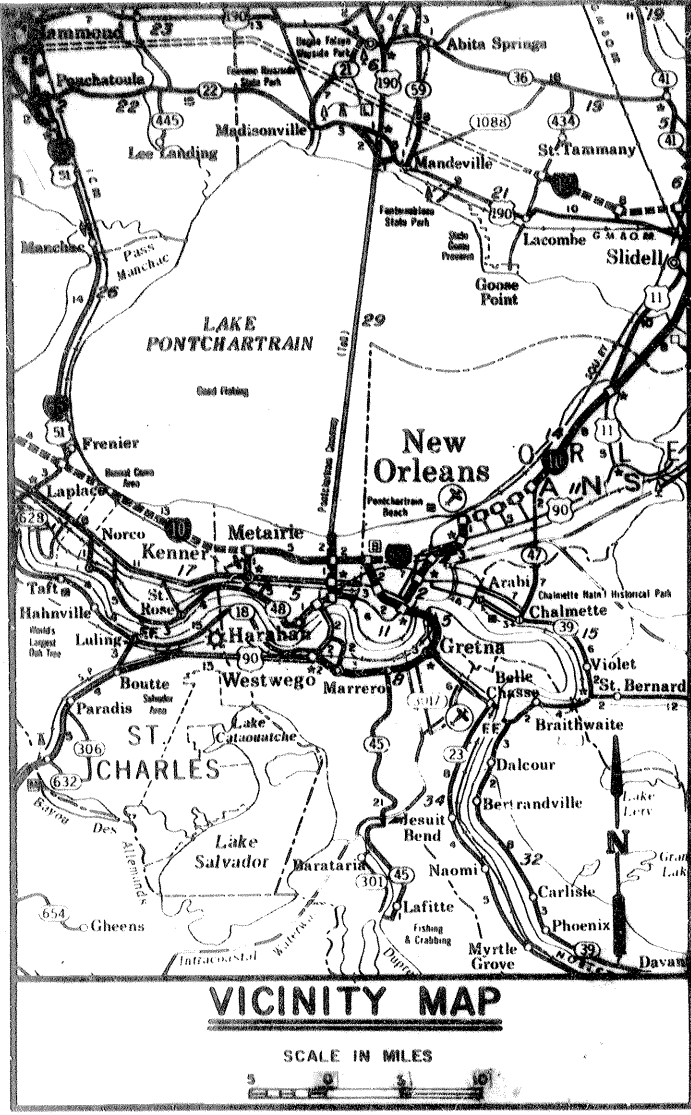
GAGE READINGS IN FEET



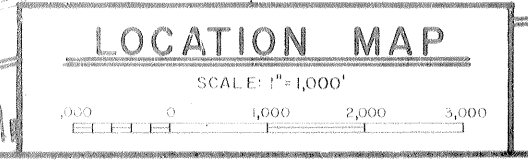
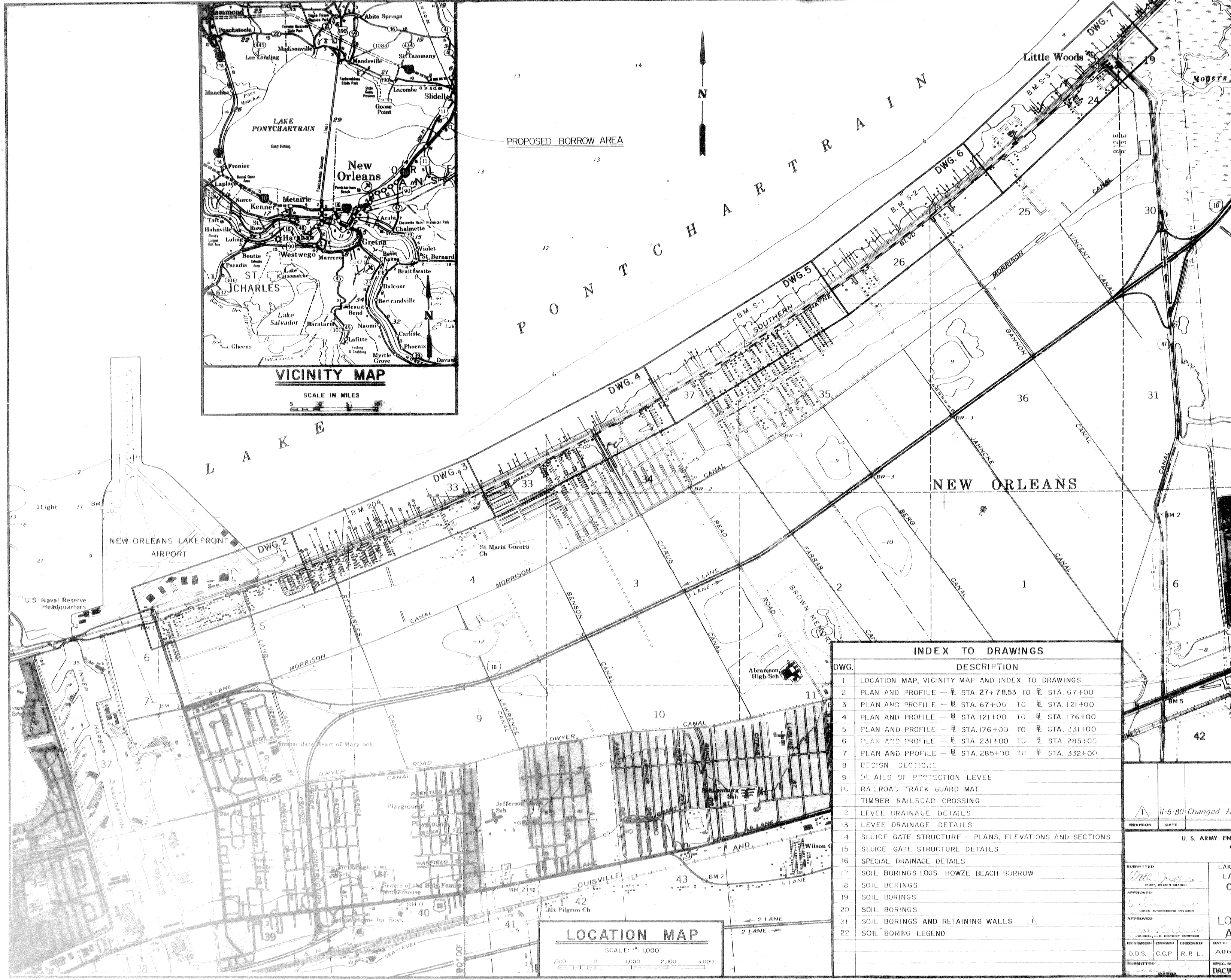
NOTE: GAGE LOCATED IN THE VICINITY OF SEABROOK BRIDGE, NEW ORLEANS



REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN HIGH LEVEL PLAN CITRUS LAKEFRONT LEVEE LEVEE AND FORESHORE PROTECTION ORLEANS PARISH, LOUISIANA HYDROGRAPHS			
DESIGNED	DRAWN	CHECKED	DATE
T.W.W.	L.A.H.	R.P.L.	DEC 1984
SUBMITTED	SPEC. NO.	SCALE:	FILE NO.
Ronald P. Lee	DACW29-85-B-Q015	AS SHOWN	H-8-29696
			15 OF 15



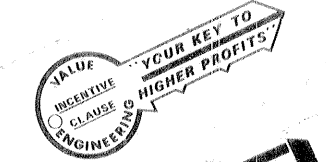
PROPOSED BORROW AREA



DWG.	DESCRIPTION
1	LOCATION MAP, VICINITY MAP AND INDEX TO DRAWINGS
2	PLAN AND PROFILE — STA. 27+78.53 TO STA. 67+00
3	PLAN AND PROFILE — STA. 67+00 TO STA. 121+00
4	PLAN AND PROFILE — STA. 121+00 TO STA. 176+00
5	PLAN AND PROFILE — STA. 176+00 TO STA. 231+00
6	PLAN AND PROFILE — STA. 231+00 TO STA. 285+00
7	PLAN AND PROFILE — STA. 285+00 TO STA. 332+00
8	DESIGN SECTIONS
9	DETAILS OF PROTECTION LEVEE
10	RAILROAD TRACK GUARD MAT
11	TIMBER RAILROAD CROSSING
12	LEVEE DRAINAGE DETAILS
13	LEVEE DRAINAGE DETAILS
14	SLUICE GATE STRUCTURE — PLANS, ELEVATIONS AND SECTIONS
15	SLUICE GATE STRUCTURE DETAILS
16	SPECIAL DRAINAGE DETAILS
17	SOIL BORINGS LOGS HOWZE BEACH BORROW
18	SOIL BORINGS
19	SOIL BORINGS
20	SOIL BORINGS
21	SOIL BORINGS AND RETAINING WALLS
22	SOIL BORING LEGEND

TABULATION OF BENCH MARKS	
BENCH MARK: 204	LA. Geodetic Survey disk El. 6.158 N.G.V.D.
DESCRIPTION:	At New Orleans, about 1.15 miles northeast along Hayne Boulevard from the crossing of Downman Road, set on the shoulder of the Southern Railway which parallels Hayne Boulevard, 44 feet northeast of the extended center line of Drum Street, 125 feet northwest of the center line of Hayne Boulevard, 10 feet southeast of the southeast rail of the southeast track, 20 feet northeast of semaphore No. 1892, 7 1/2 feet northeast of the east corner of a concrete battery box, about 2 feet below the track and set in the top of a concrete post about 18 inches underground.
BENCH MARK: 5-1	El. 8.323 N.G.V.D.
DESCRIPTION:	Marker is a standard Corps tablet on a 1" black pipe. The cap is countersunk 0.4' and is located approximately 30' west of a path to a lakeside cottage, 11' north of C/L of lakeside railroad tracks. Witness post set at levee station 205+42, 18' lakeside offset.
BENCH MARK: 5-2	El. 8.173 N.G.V.D.
DESCRIPTION:	Marker is standard Corps disc on 1" black pipe, with cap countersunk 0.4'. Marker is located at approximate levee station 270+20, and is 142' north of the C/L of Hayne Blvd., between Reelfoot Street and Gannon Road.
BENCH MARK: 5-3	El. 8.078 N.G.V.D.
DESCRIPTION:	Marker is a standard disc on 1" black pipe, with cap countersunk 0.4'. Marker is located at approximate levee station 330+14, west of projected intersection of Paris Road and railroad tracks, 150' north of C/L of Hayne Blvd.

THIS PLAN ACCOMPANIES
MODIFICATION PO0002
TO CONTRACT NUMBER
DACW29-80-C-0035

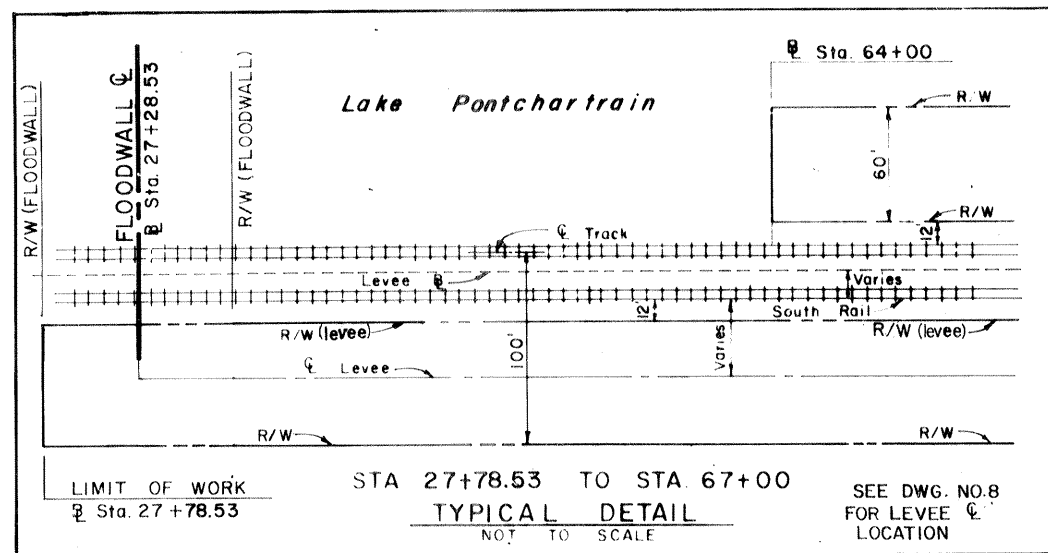


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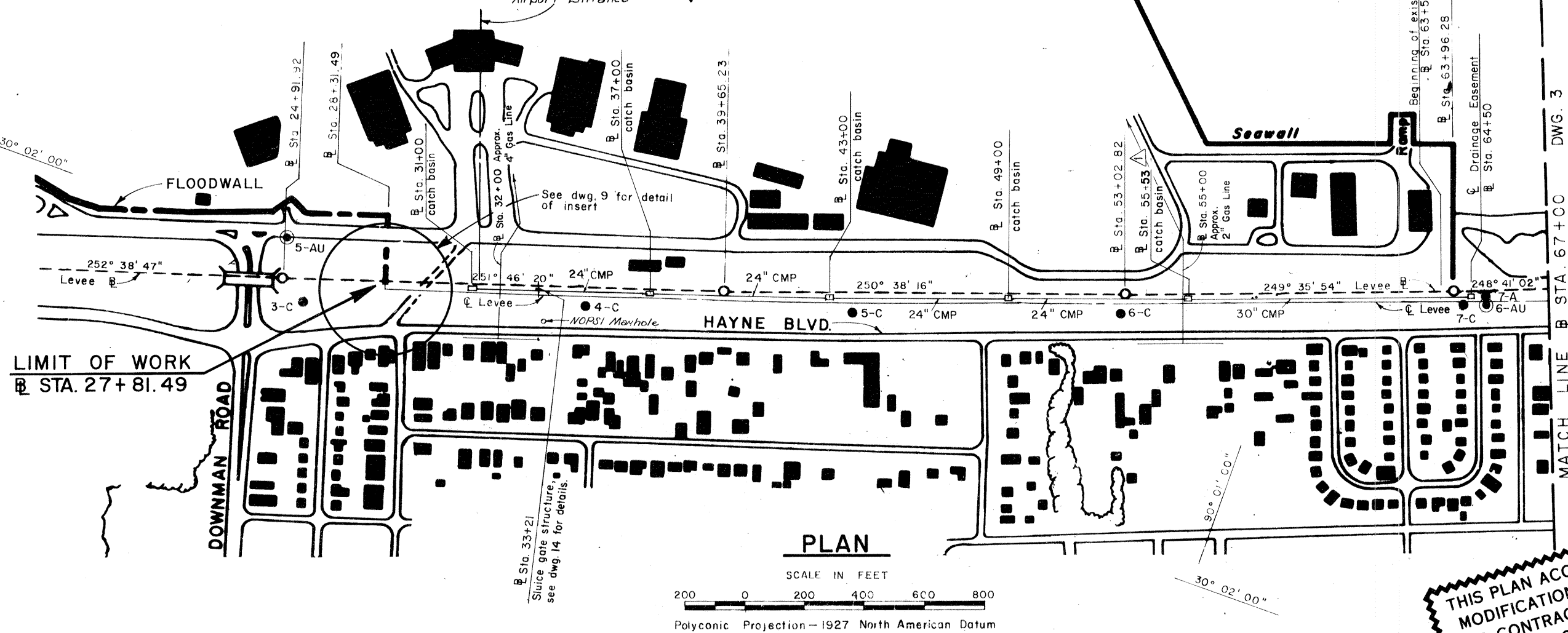
NOTE:
DRAWING REDUCED
TO ONE HALF SCALE

11-5-80 Changed title description on dwg. 21; Mod #2

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS			
CORPS OF ENGINEERS			
NEW ORLEANS, LA.			
SUBMITTED	LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY		
APPROVED	LAKE PONTCHARTRAIN BARRIER PLAN		
APPROVED	CITRUS LAKEFRONT LEVEE		
DESIGNED	IHCN TO PARIS ROAD		
DRAWN	ORLEANS PARISH, LOUISIANA		
CHECKED	LOCATION MAP, VICINITY MAP,		
DATE	SCALE	FILE NO.	
AUG 1979	AS SHOWN	H-8-28076	
D.D.S.	C.C.P.	R.P.L.	
SPEC. NO.	DATE	ISSUE	
DACW29-79-B-0254		1	22



NEW ORLEANS LAKEFRONT AIRPORT



Safety is a Part of Your Contract

YOUR KEY TO HIGHER PROFITS

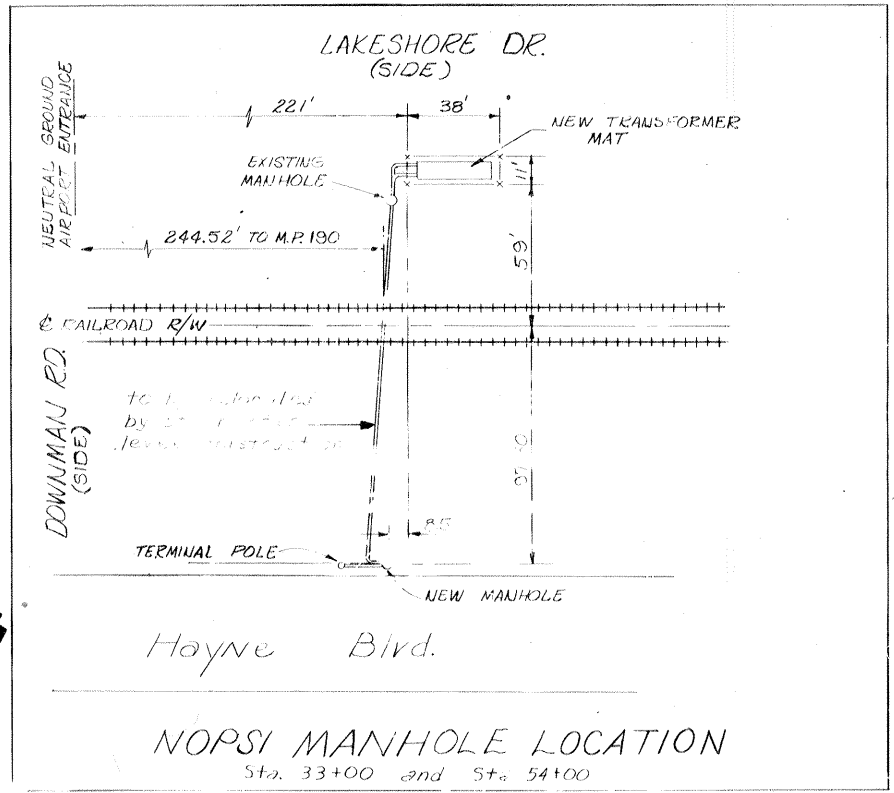
VALUE ENGINEERING

GENERAL NOTES

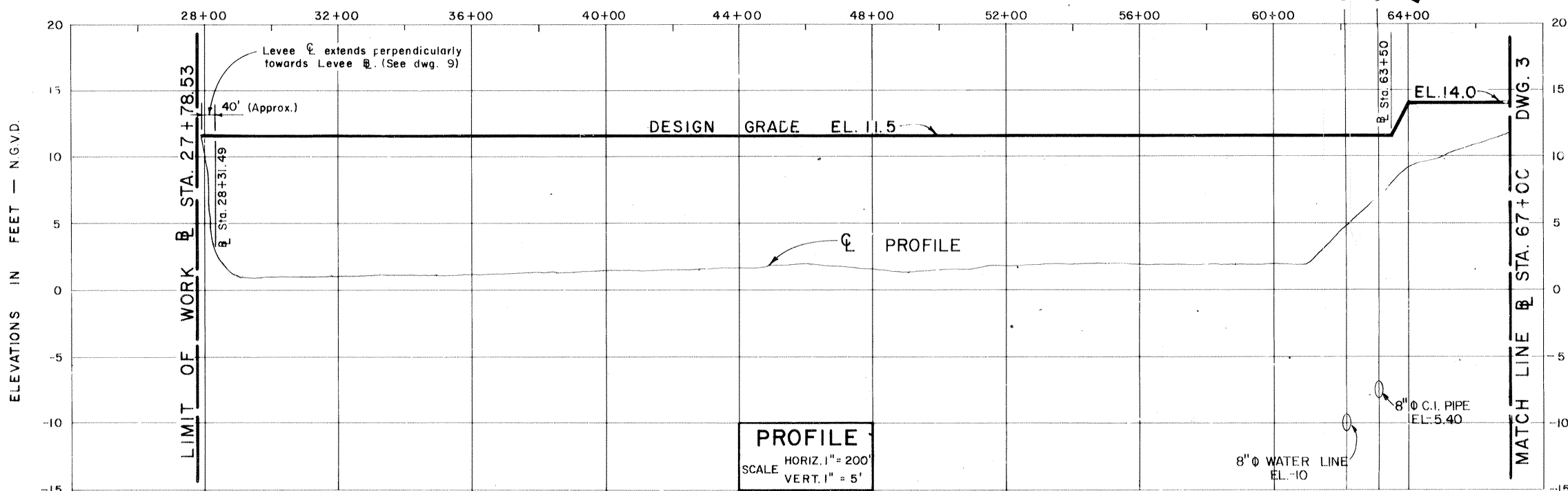
- All azimuths are true south azimuths turned in clockwise direction from 0° (Due South).
- Unless otherwise noted, all elevations are expressed in feet and refer to National Geodetic Vertical Datum of 1929.
- See dwg. 1 for the description and location of bench marks.
- Planimetry from Feb. 1966 aerial photographs.
- The utility lines shown on dwgs. 3, 4, 5, 6, and 7, consist of small diameter water and electric lines that cross the existing levee to provide services to the lakeside camps. They are to be relocated by others in accordance with paragraph 17 of the specifications.
- The handhold and meter pestles illustrated on dwg. 3 are to be flagged in the field and protected throughout the contract by the contractor.

LEGEND

- Indicates undisturbed boring.
- Indicates general type boring.



THIS PLAN ACCOMPANIES MODIFICATION P0000 TO CONTRACT NUMBER DACW29-80-C-0035



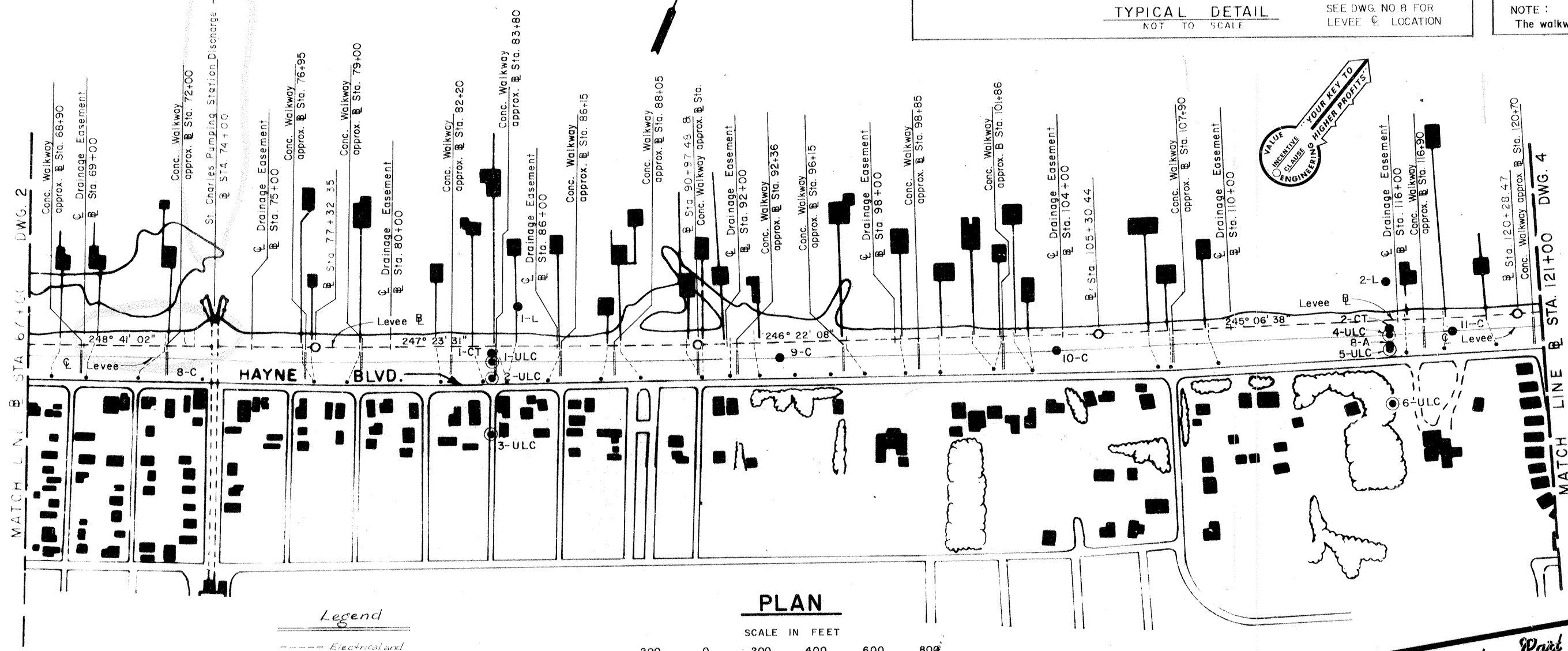
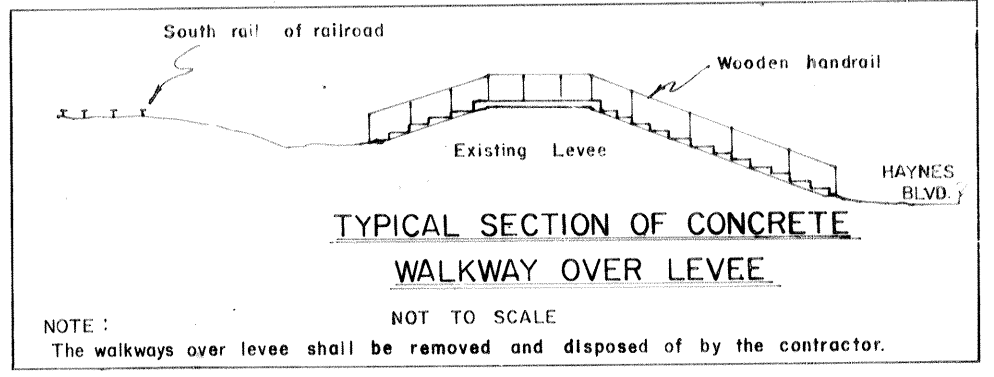
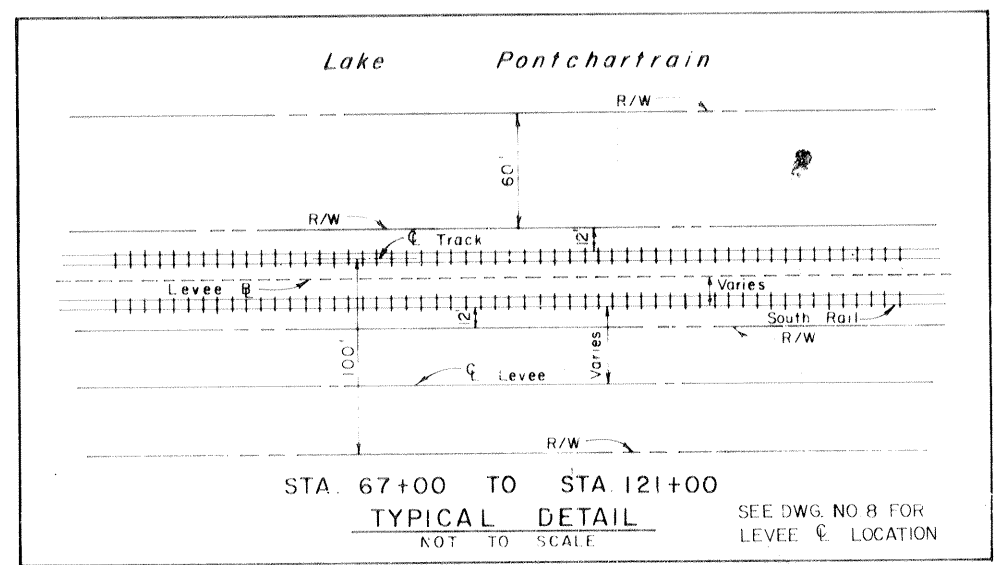
NOTE: DRAWING REDUCED TO ONE HALF SCALE

REVISION		DATE	DESCRIPTION	BY
1		15 Feb. 80	Catch basin location changed from sta. 55+00 to 55+53. Mod. #1	
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.				
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA PLAN AND PROFILE STA. 27+28.53 TO STA. 67+00				
DESIGNED:	DRAWN:	CHECKED:	DATE:	SCALE:
D.D.S.	C.C.P.	R.P.L.	AUG. 1979	AS SHOWN
SUBMITTED:			SPEC. NO.	FILE NO.
DACW29-79-B-0254			2	H-8-28076
				22

90° 10' 00"

LAKE PONTCHARTRAIN

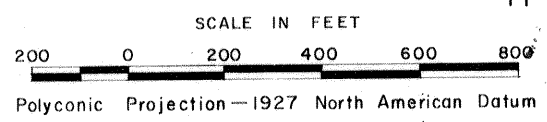
THIS PLAN ACCOMPANIES
MODIFICATION P00002
TO CONTRACT NUMBER
DACW29-80-C-0035



Legend

- Electrical and Water Lines
- Utility Meters
- Concrete Walkway

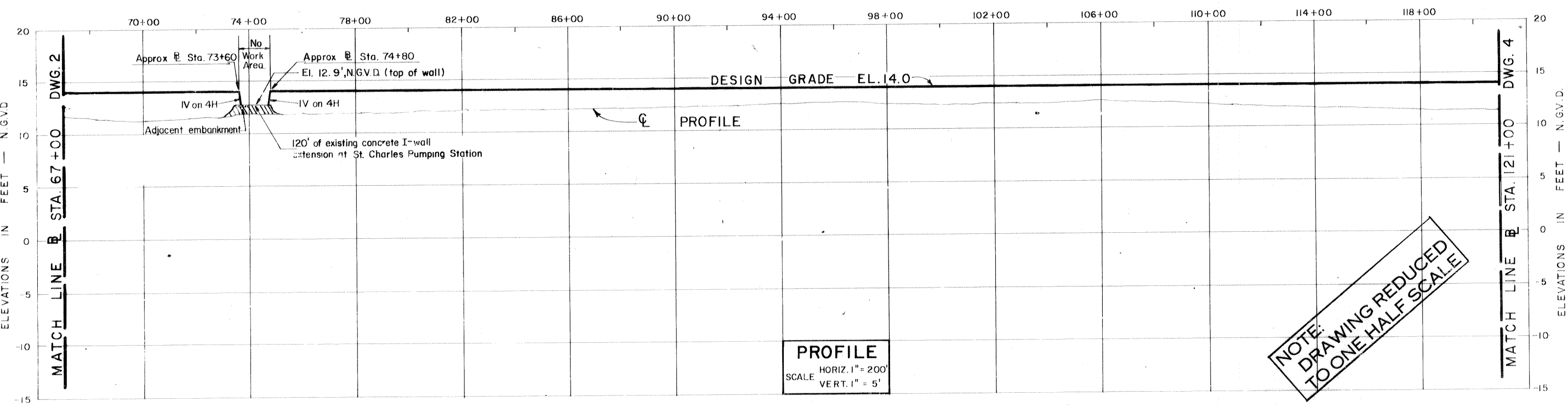
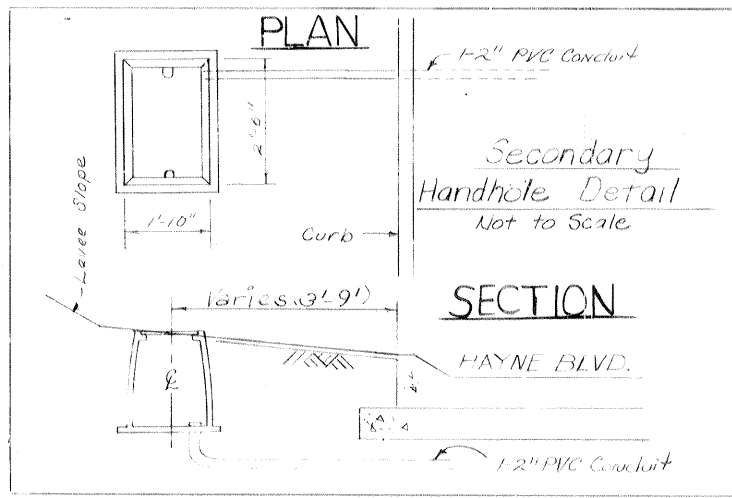
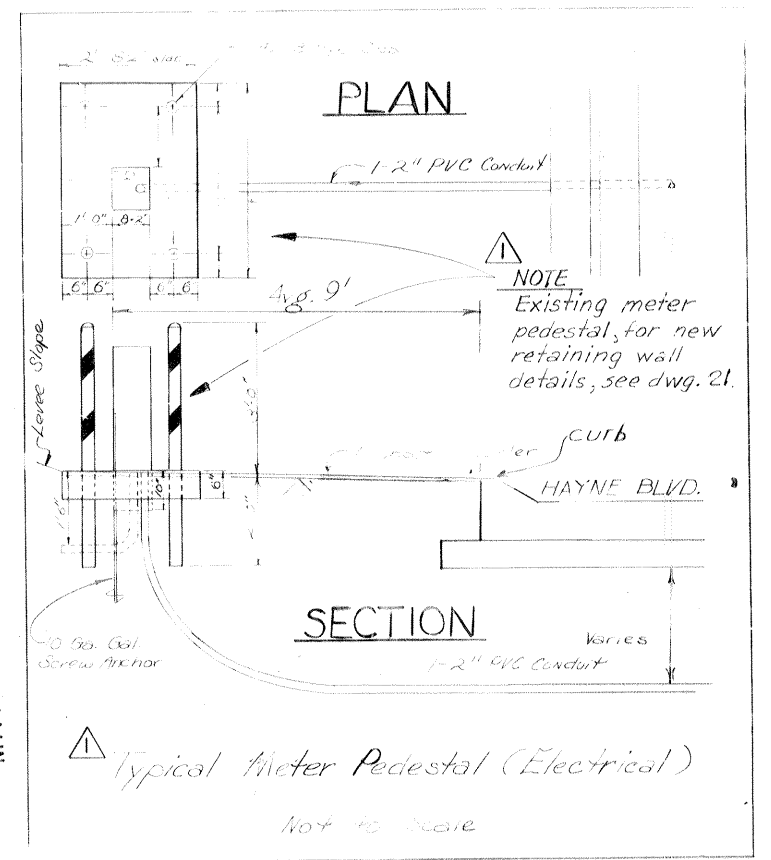
PLAN



Notes:

1. For general notes and boring log, see Jwg. 2.

Safety is a Part of Your Contract



PROFILE
HORIZ. 1" = 200'
SCALE
VERT. 1" = 5'

NOTE: DRAWING REDUCED TO ONE HALF SCALE

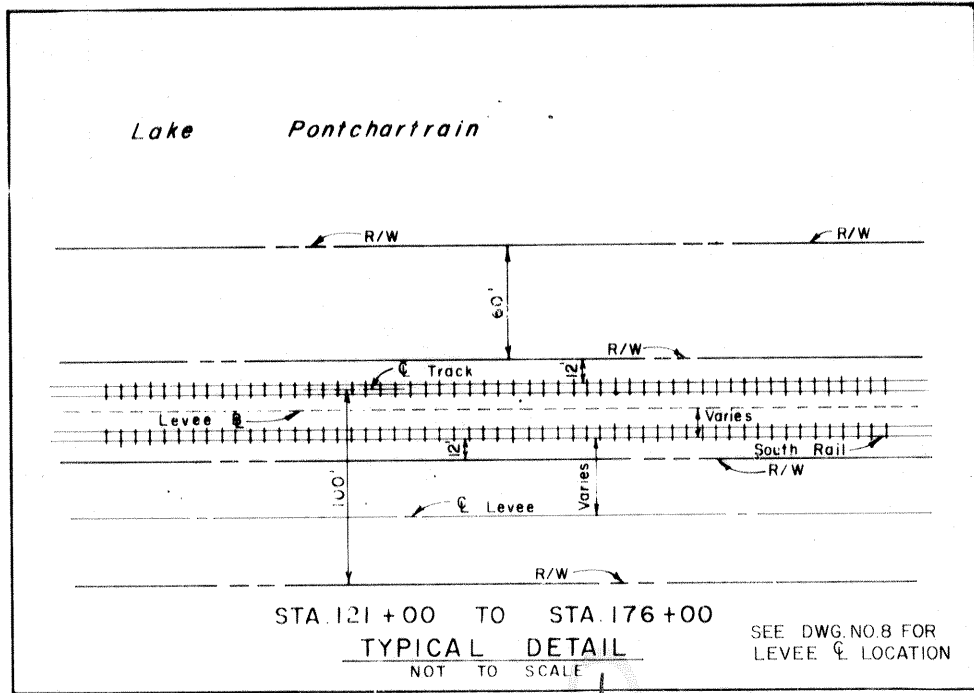
REVISION	DATE	DESCRIPTION	BY
1	11-5-80	Added Note to Typical Meter Pedestal layout; Mod. #2	J.A.R.

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA

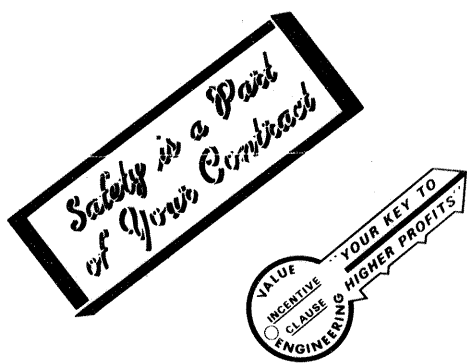
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN BARRIER PLAN
CITRUS LAKEFRONT LEVEE
IHNC TO PARIS ROAD
ORLEANS PARISH, LOUISIANA
PLAN AND PROFILE
STA. 67+00 TO STA. 121+00

DESIGNED	DRAWN	CHECKED	DATE	SCALE	FILE NO.
D.D.S.	C.C.P.	R.P.L.	AUG. 1979	AS SHOWN	H-8-28076

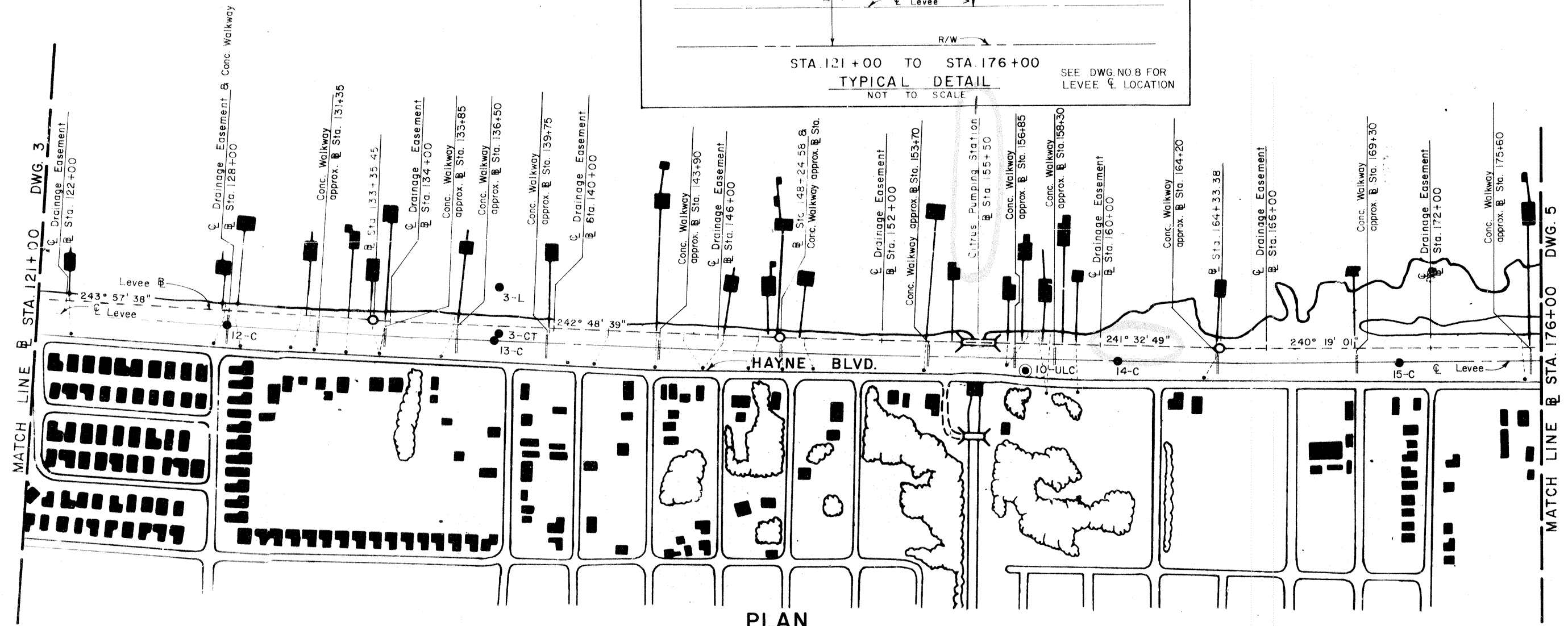
SPEC. NO. DACW29-79-B-0254 DWG. 3 OF 22



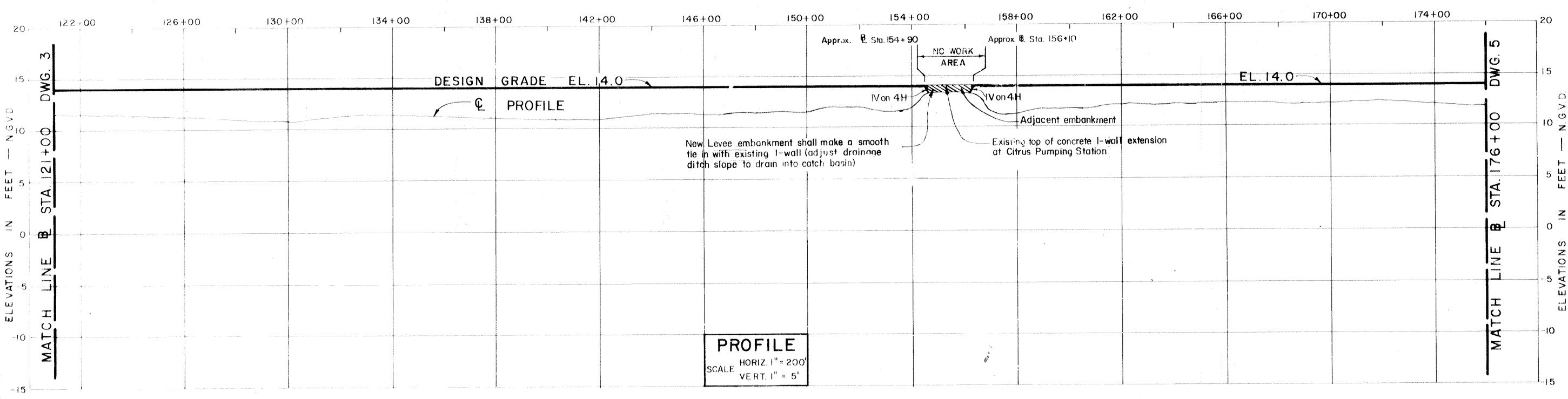
NOTE
1. For general notes see dwg. 2



LEGEND
 --- Electric and Water Lines
 • Utility Meters
 --- Concrete Walkway



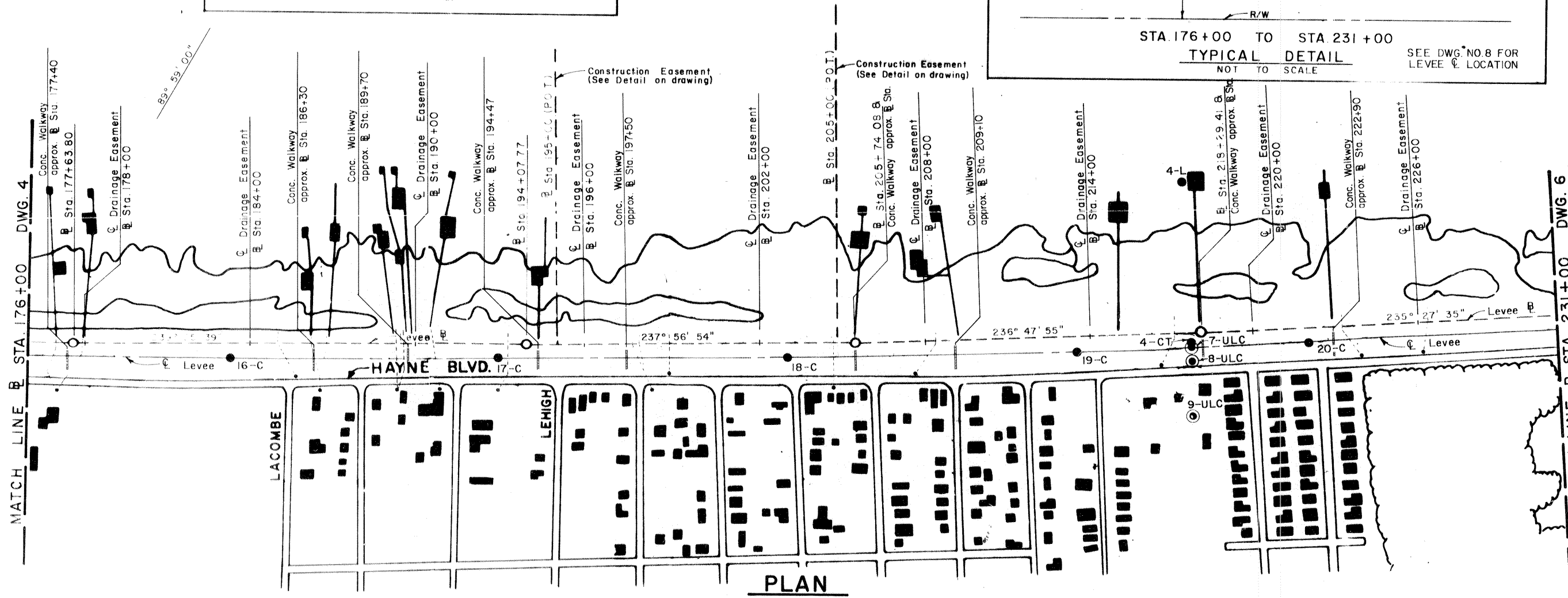
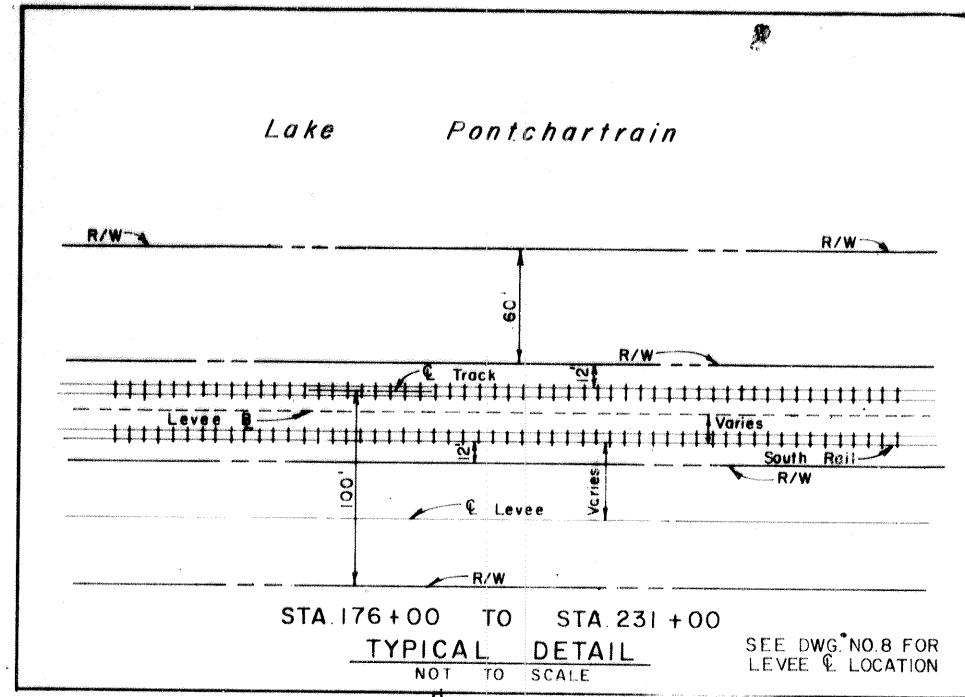
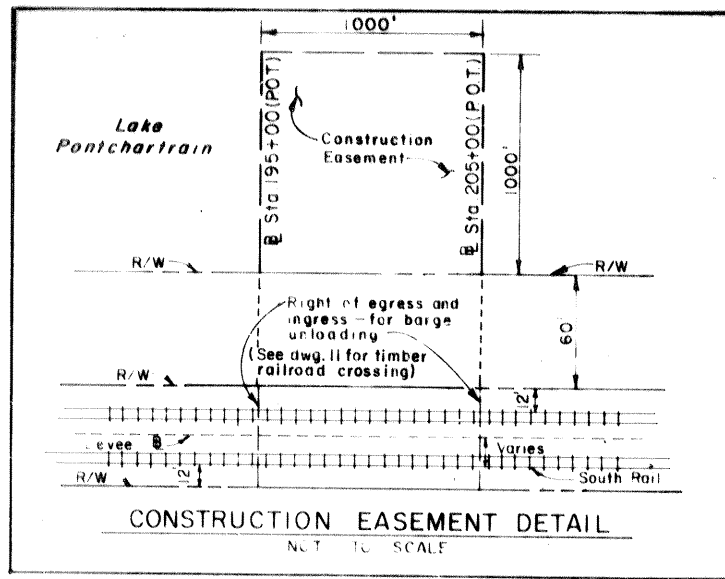
PLAN
 SCALE IN FEET
 0 200 400 600 800
 Polyconic Projection—1927 North American Datum



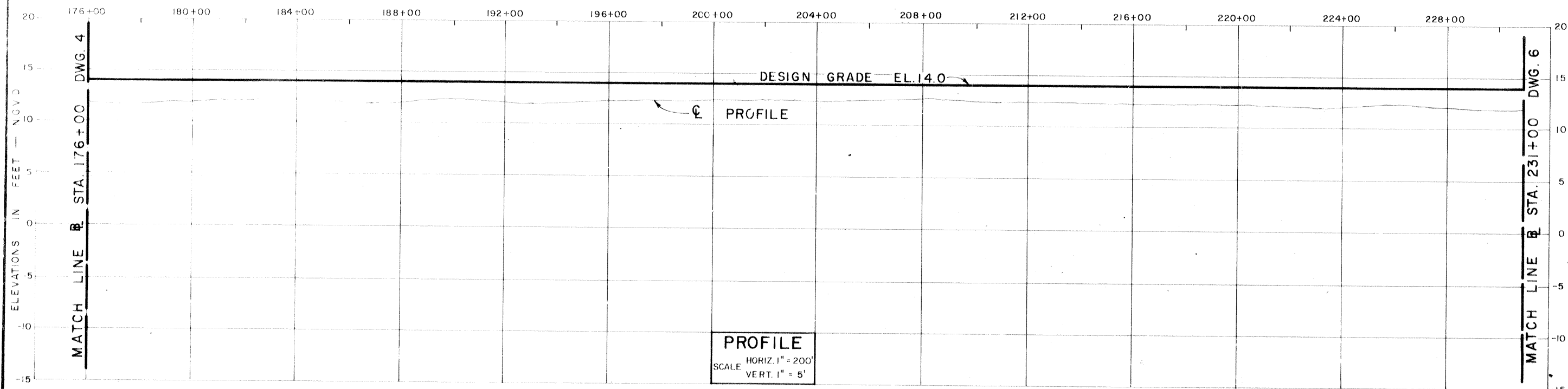
PROFILE
 SCALE HORIZ. 1" = 200'
 VERT. 1" = 5'

NOTE: DRAWING REDUCED TO ONE HALF SCALE

REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA PLAN AND PROFILE STA. 121+00 TO STA. 176+00			
DESIGNED D. D. S.	DRAWN C. C. P.	CHECKED R. P. L.	DATE AUG. 1979
SUBMITTED		SPEC. NO. DACW29-79-B-0254	SCALE AS SHOWN
		DWG. NO. 4	FILE NO. H-8-28076
		OF 22	



SCALE IN FEET
 200 0 200 400 600 800
 Polyconic Projection—1927 North American Datum



NOTE
 1. For general notes see dwg. 2

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YOUR KEY TO HIGHER PROFITS
 MAKE MEETINGS CLAIMS ENGINEERING

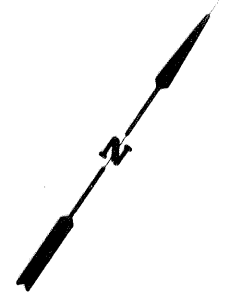
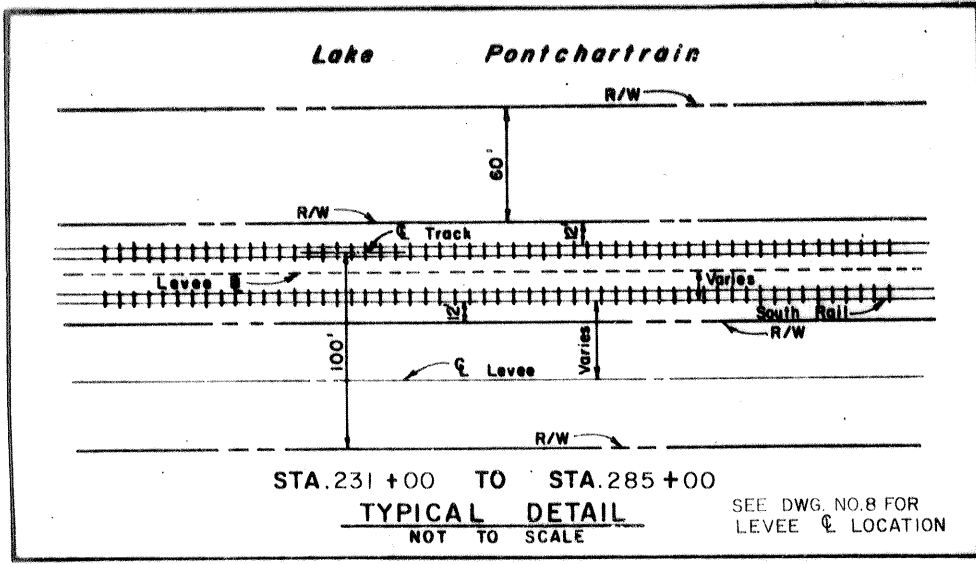
LEGEND
 --- Electric and Water Lines
 • Utility Meters
 --- Concrete Walkway

NOTE:
 DRAWING REDUCED TO ONE HALF SCALE

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS
 LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
 LAKE PONTCHARTRAIN BARRIER PLAN
CITRUS LAKEFRONT LEVEE
IHNC TO PARIS ROAD
 ORLEANS PARISH, LOUISIANA
PLAN AND PROFILE
STA. 176+00 TO STA. 231+00

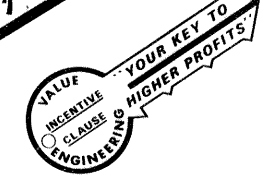
DESIGNED	DRAWN	CHECKED	DATE	SCALE
D.D.S.	C.C.P.	R.P.L.	AUG. 1979	AS SHOWN

PROJECT NO. H-8-28076
 SPEC. NO. DACW29 79-B-0254 5 22

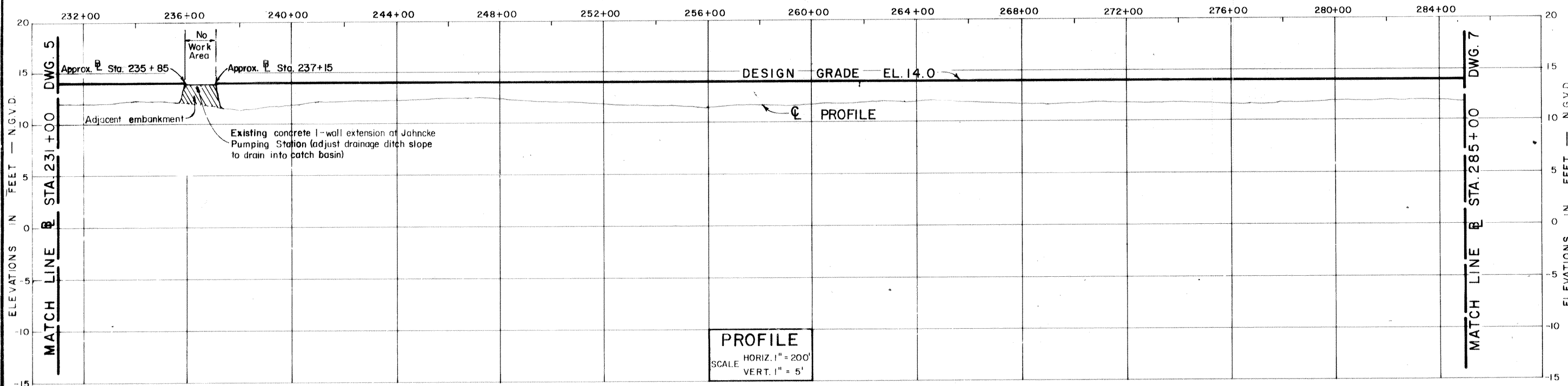
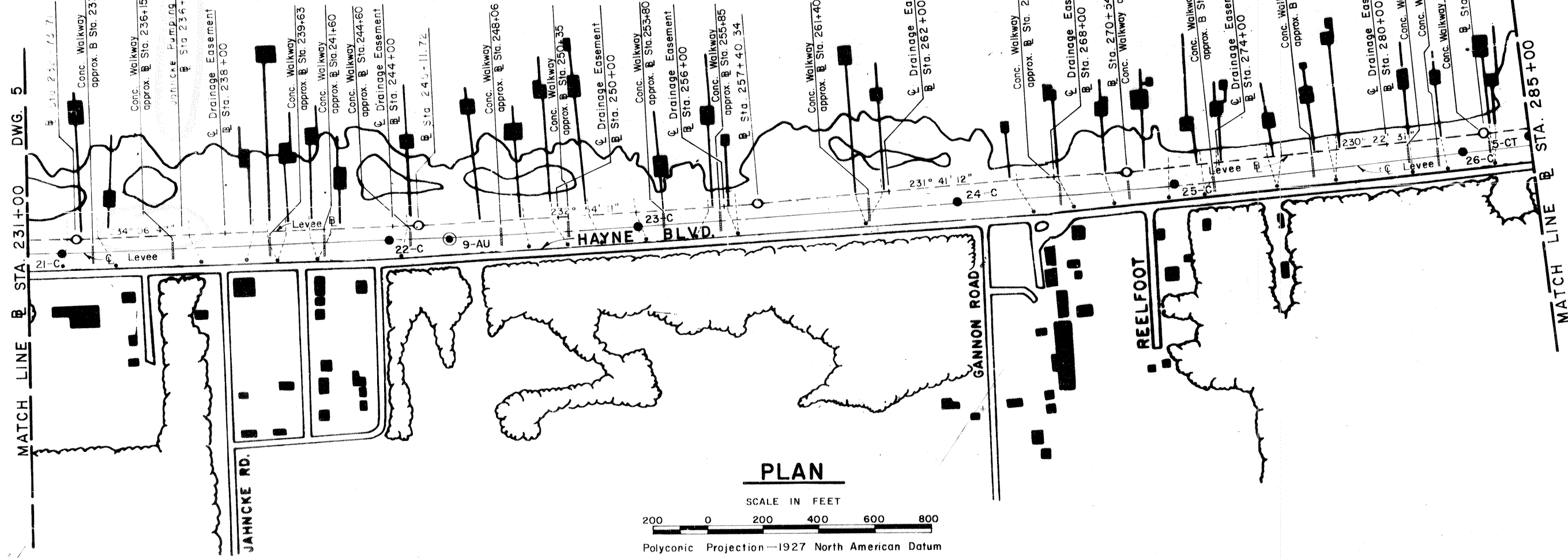


NOTE
1. For general notes see dwg. 2

Safety is a Part of Your Contract



- LEGEND
- Electric and Water Lines
 - Utility Meters
 - Concrete Walkway



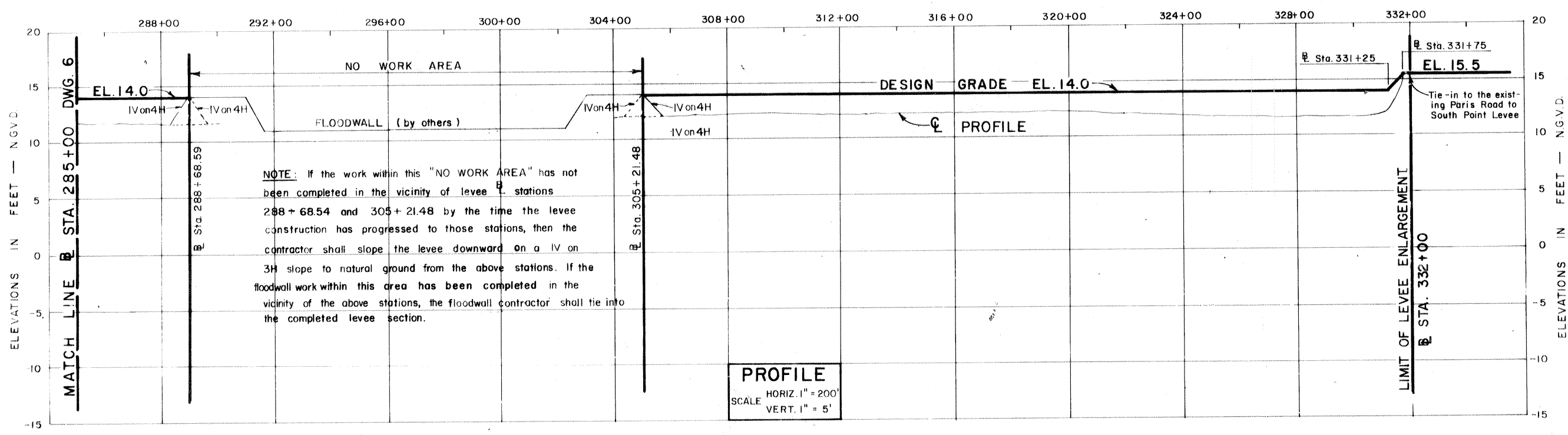
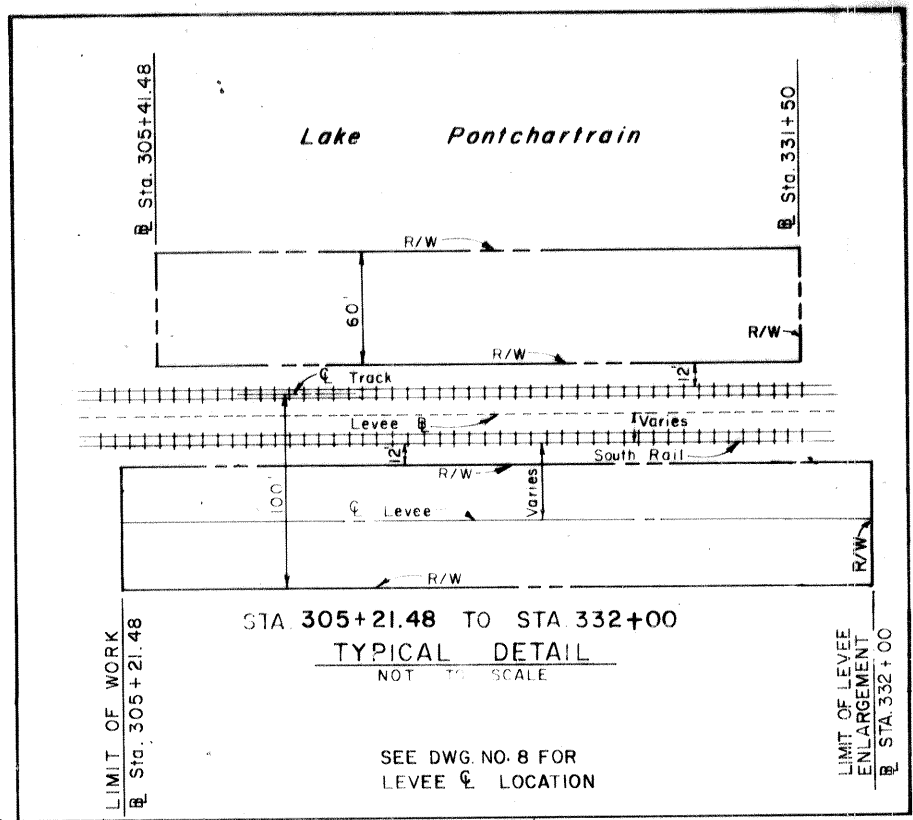
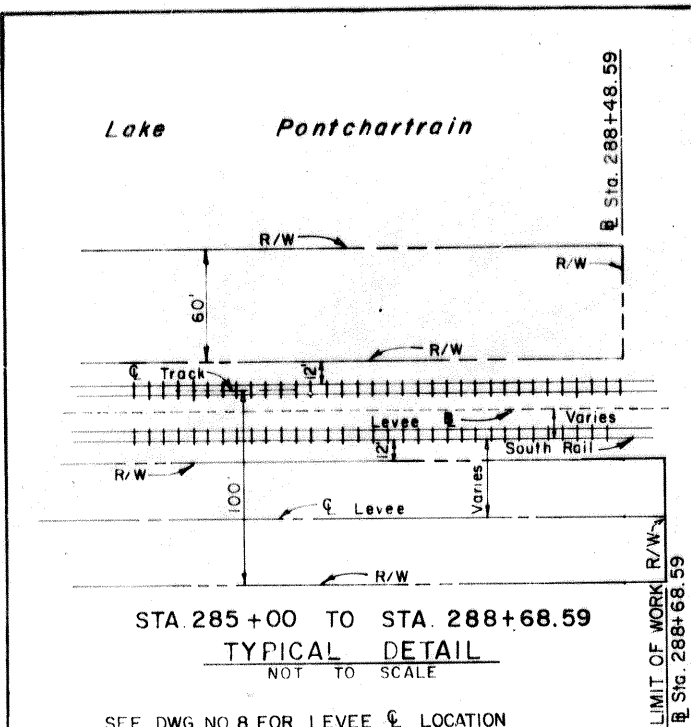
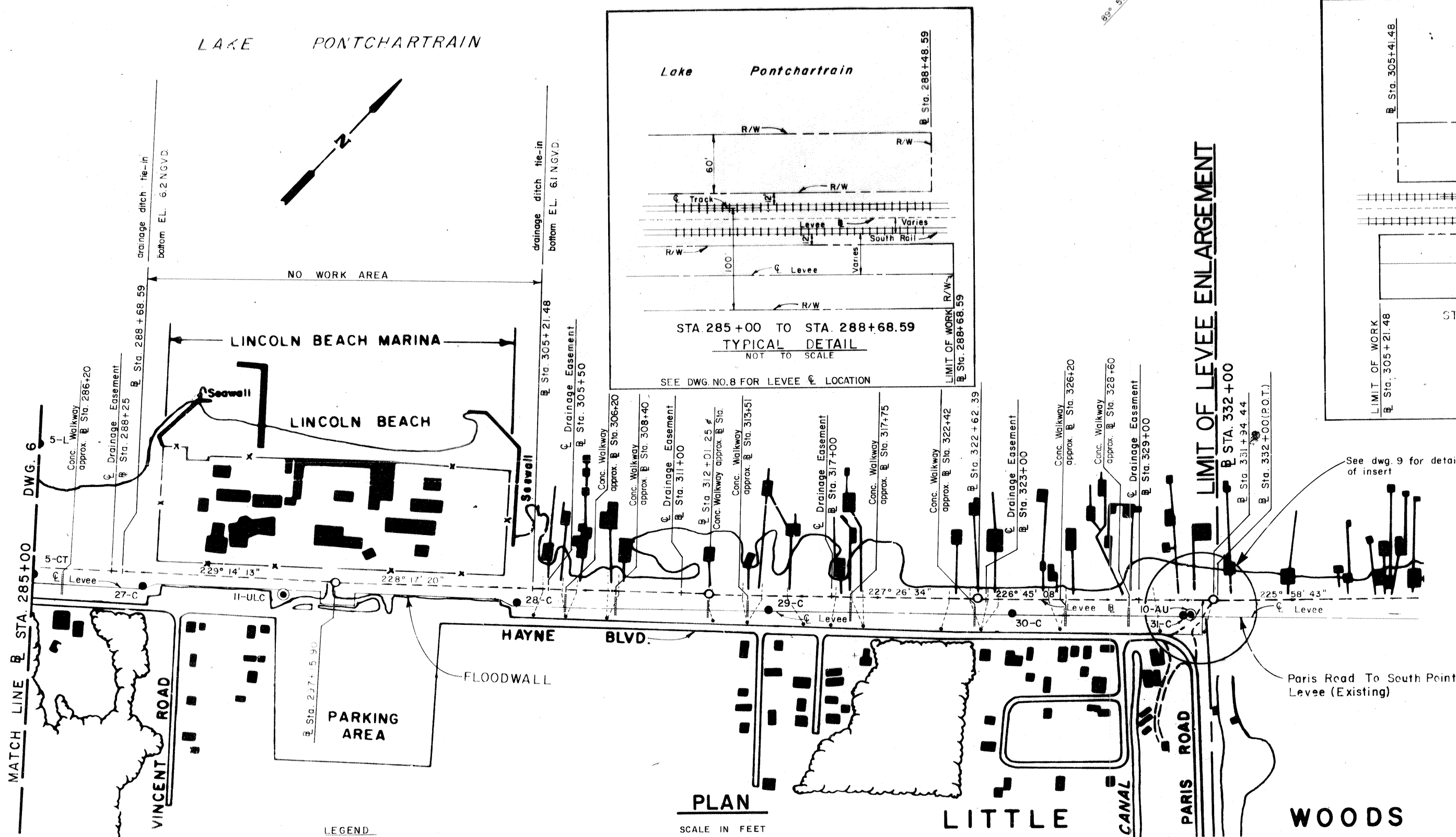
NOTE: DRAWING REDUCED TO ONE HALF SCALE

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.					
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA PLAN AND PROFILE STA. 231+00 TO STA. 285+00					
DESIGNED D.D.S.	DRAWN C.C.P.	CHECKED R.P.L.	DATE AUG. 1979	SCALE AS SHOWN	FILE NO. H-8-28076
SUBMITTED <i>Donald L. ...</i>			SPEC. NO. DACW29-79-B-0254	DWG. NO. 6	SHEET NO. 22

LAKE PONTCHARTRAIN

Lake Pontchartrain

Lake Pontchartrain

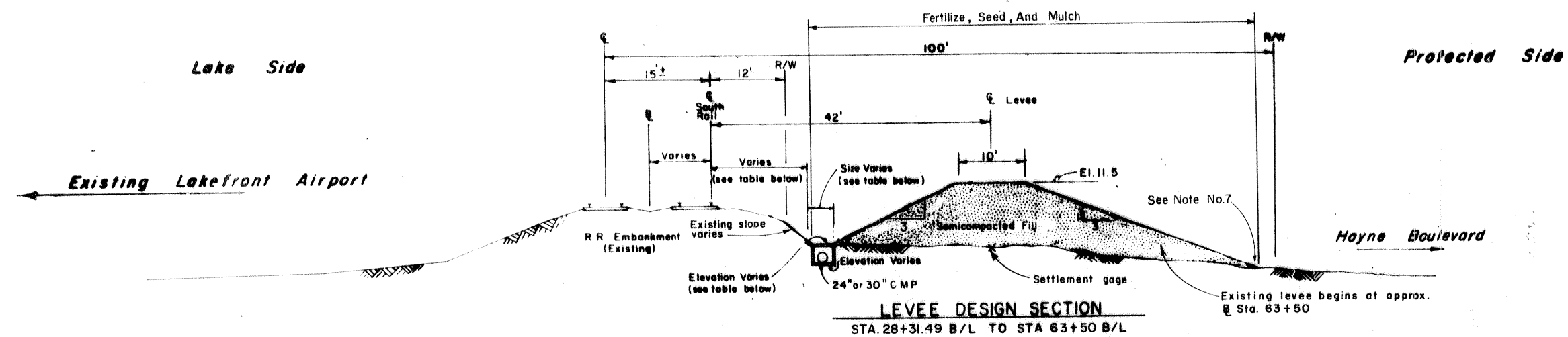


Safety is a Part of Your Contract

VALUE YOUR KEY TO INCENTIVE CLAUSES & HIGHER PROFITS ENGINEERING

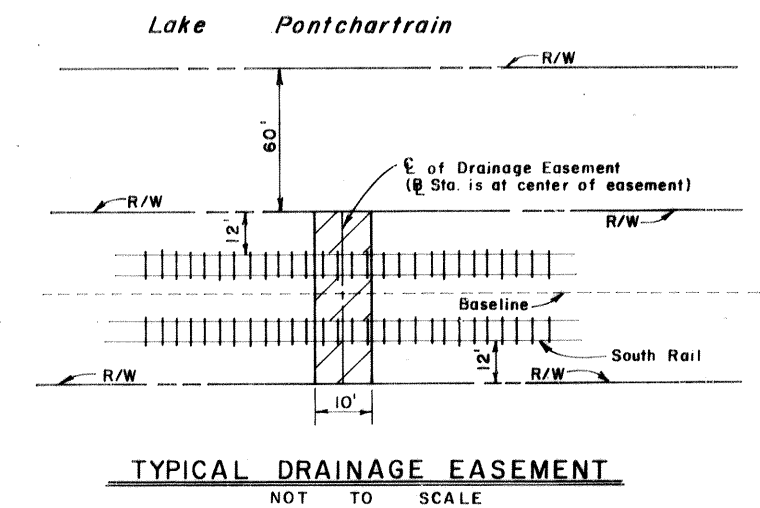
NOTE: DRAWING REDUCED TO ONE HALF SCALE.

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA					
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER LEVEE CITRUS LAKEFRONT LEVEE IHNIC TO PARIS ROAD ORLEANS PARISH, LOUISIANA PLAN AND PROFILE STA 285+00 TO STA. 332+00					
DESIGNED D.D.S.	DRAWN C.C.P.	CHECKED R.P.L.	DATE AUG. 1979	SCALE AS SHOWN	FILE NO. H-8-28076
SUBMITTED <i>[Signature]</i>	SPEC. NO. DACW29-79-B-0254	DWG 7	OF 22		



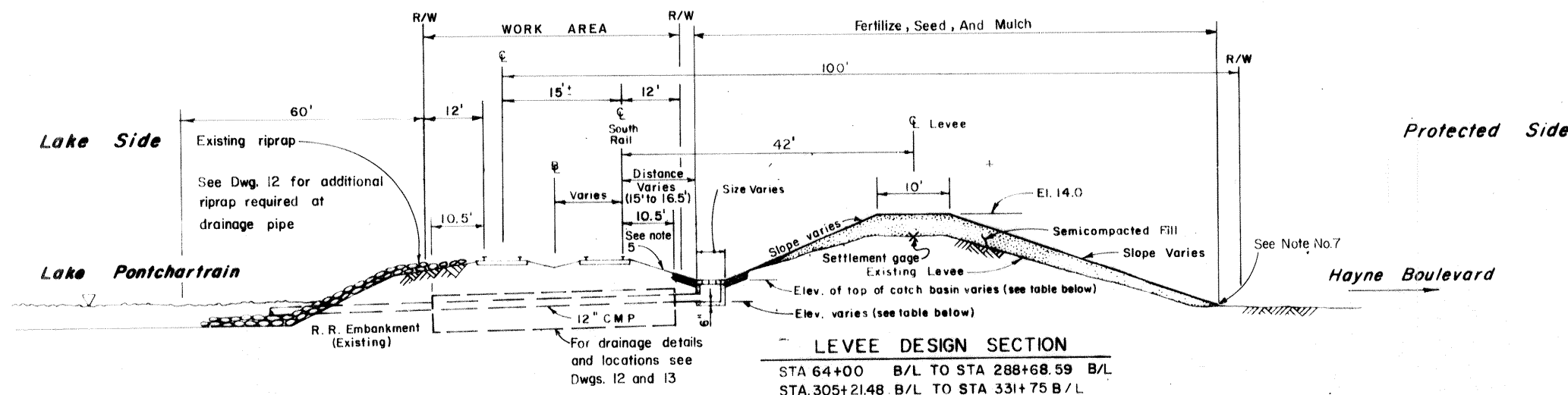
LEVEE BASELINE STATION	LEVEE FLOODSIDE SLOPE	CATCH BASIN STATION	ELEV. OF TOP OF CATCH BASIN (FEET N.G.V.D.)	SOUTH RAIL TO EDGE OF CATCH BASIN - FEET	WIDTH OF CATCH BASIN FT.
28+31 TO 39+00	IV on 3H	31+00	6.0	18.0	5
40+00 TO 53+00		37+00	6.0	18.5	5
54+00 TO 61+00		43+00	5.0	13.0	3.5
61+00 TO 63+50		49+00	5.0	15.5	5
		58+00	5.0	16.5	5
		64+00	6.0	17.0	5

NOTE: The catch basin at Sta 64+00 will have a 30" C.M.P. drilled through the railroad discharging into the lake.



A 10' wide drainage easement is required at the following baseline stations:

APPROX. B	STATIONS
64+50	196+00
69+00	202+00
75+00	208+00
80+00	214+00
86+00	220+00
92+00	226+00
98+00	232+00
104+00	238+00
110+00	244+00
116+00	250+00
122+00	256+00
128+00	262+00
134+00	268+00
140+00	274+00
146+00	280+00
152+00	288+25
160+00	305+50
166+00	311+00
172+00	317+00
178+00	323+00
184+00	329+00
190+00	



LEVEE BASELINE STATION	MAXIMUM & MINIMUM VALUES OF LEVEE FLOODSIDE SLOPES	EL. OF TOP OF CATCH BASINS WITHIN LEVEE REACHES (FEET N.G.V.D.)	EL. OF BOTTOM OF CATCH BASINS WITHIN LEVEE REACHES (FEET N.G.V.D.)	MAXIMUM & MINIMUM VALUES OF LEVEE PROTECTED SIDE SLOPES
64+00 TO 73+00 149+00 TO 154+03 156+13 TO 235+40 255+50 TO 282+50	2.3 - 2.6 2.6 - 2.8 2.5 - 2.9 2.5 - 2.9	6.0	2.5	2.7 - 2.8 2.7 - 3.0 2.7 - 3.0 2.8 - 3.0
75+00 TO 108+50 237+60 TO 254+50 283+50 TO 288+68.59 305+2148 TO 331+50	2.3 - 3.0 2.5 - 2.9 2.7 - 2.8 2.6 - 2.8	6.0	2.5	2.7 - 3.0 2.8 - 3.0 2.8 - 2.9 2.7 - 3.0
109+50 TO 149+00	2.5 - 2.7	5.0	2.0	2.3 - 2.8

SETTLEMENT GAGE SPECIFICATIONS

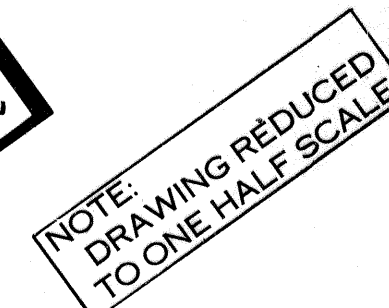
Should the contractor desire payment for placing additional fill due to foundation settlement during construction he shall furnish and install settlement gages at the locations shown on the design section in conformance with the provisions of Section 3 of the specifications.

The settlement measurement range for each settlement gage shall be for a distance of 150 feet in each direction from each settlement gage measured along the centerline of the levee, except where settlement gages are placed at less than 300 feet intervals, in which case, the settlement measurement range shall be to a point 1/2 the distance between settlement gages.

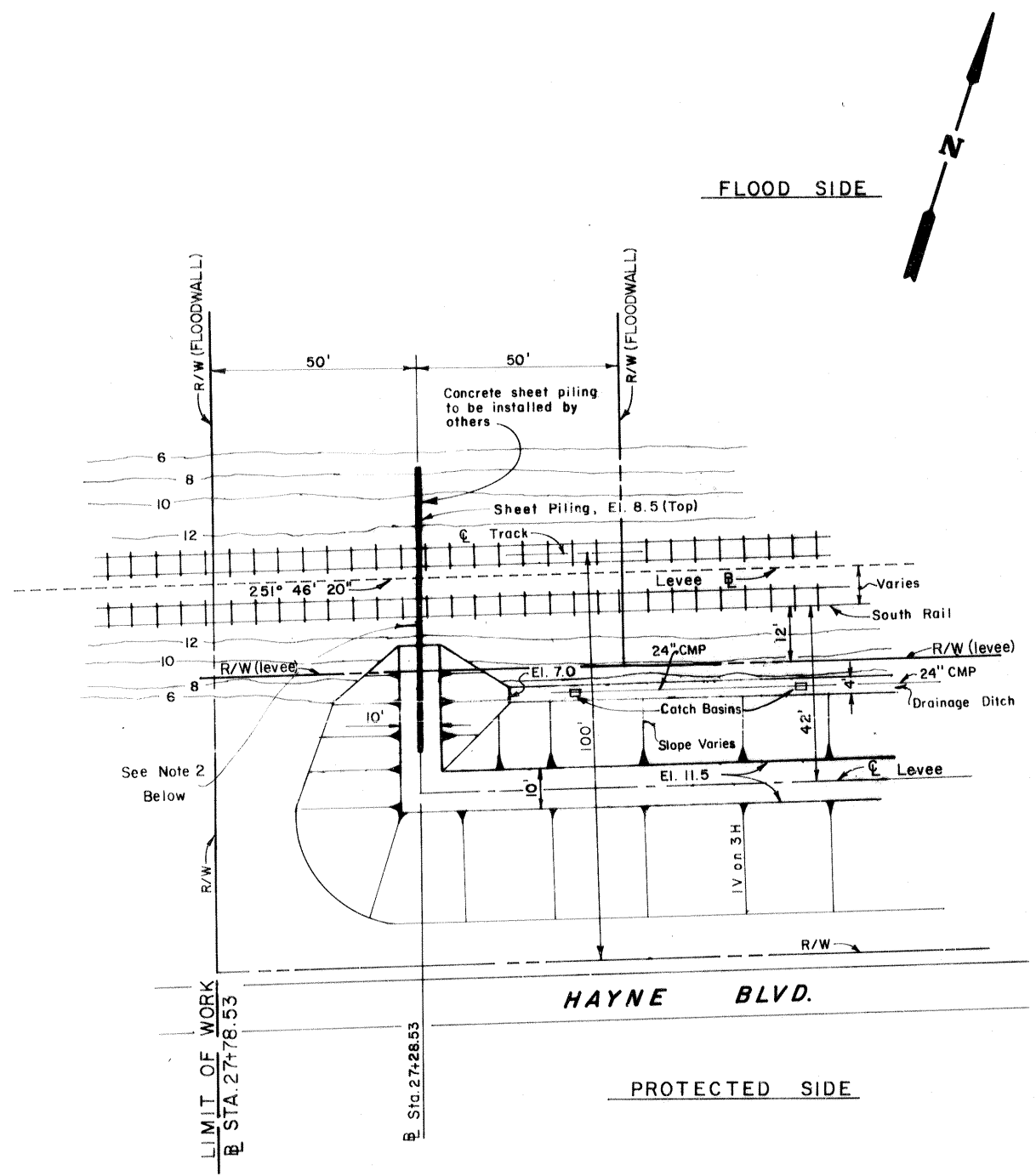
1/4" Steelplate
2' x 2'

NOTES:

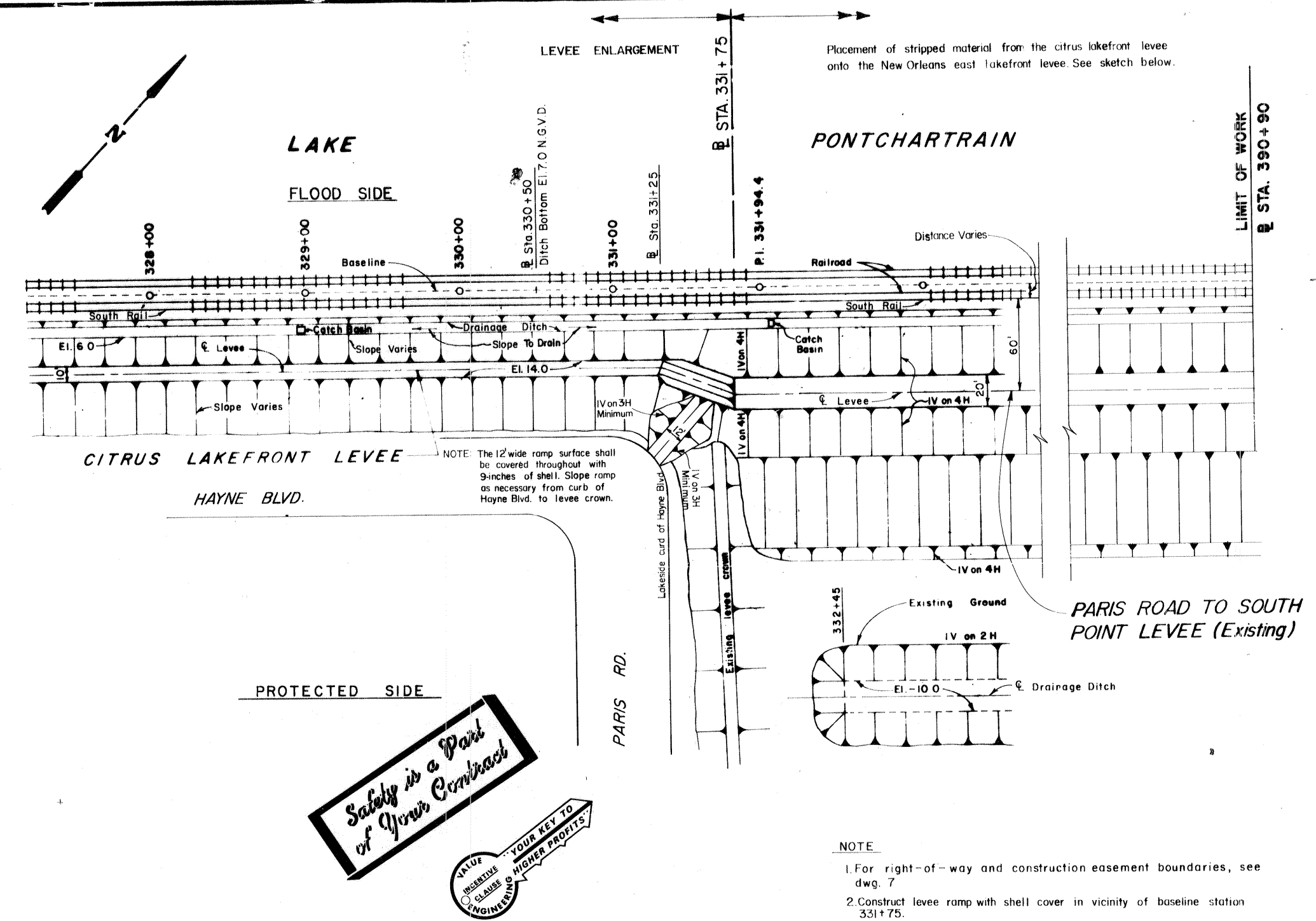
- All stationing is levee baseline stationing
- Elevations are expressed in feet, N.G.V.D.
- Sections not drawn to scale.
- For general notes see dwg. 2
- In the levee reaches where the drainage ditch must be cut, the drainage ditch back slope shall be a IV on 2H.
- Levee section shall make a smooth transition from station 63+50 at elevation 11.5 to station 64+00 at elevation 14.0.
- The toe of levee on protected side not to extend beyond levee R/W or edge of curb of Hayne Blvd, whichever one is nearest the levee centerline.



REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA DESIGN SECTIONS			
DESIGNED	DRAWN	CHECKED	DATE
D.D.S.	C.C.P.	R.P.L.	AUG. 1979
SCALE AS SHOWN			FILE NO.
			H-8-28076
SPECIAL SPEC. NO.			DATE
DACW29-79B-0254			8 22

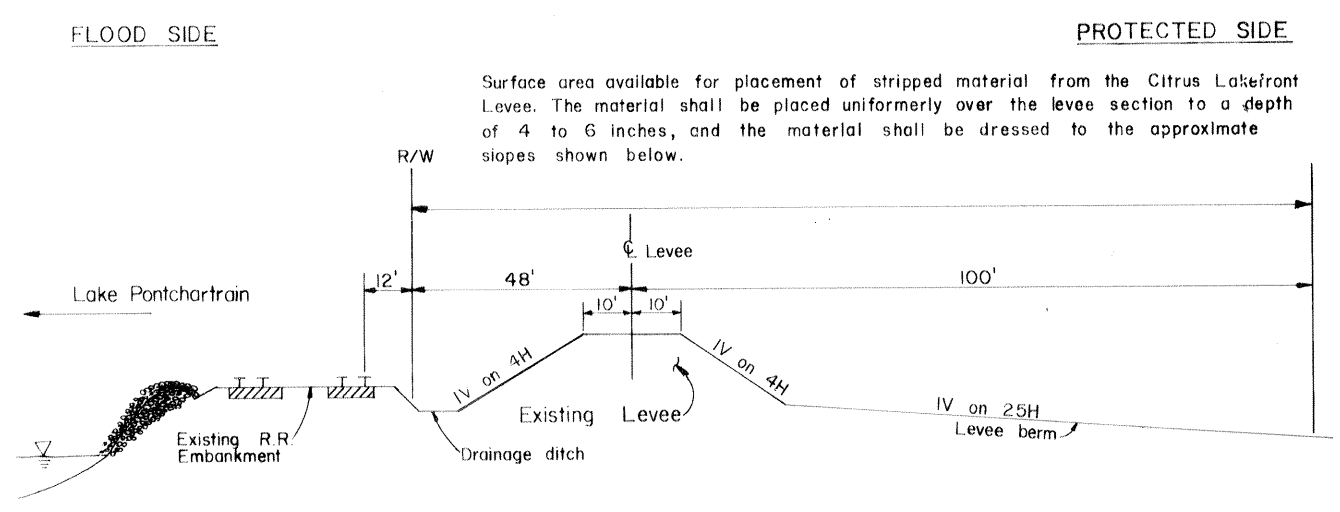
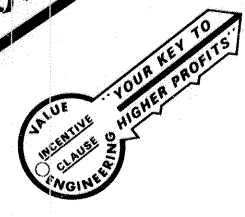


DETAIL OF PROTECTION LEVEE
VICINITY OF STA. 27+28.53
NOT TO SCALE

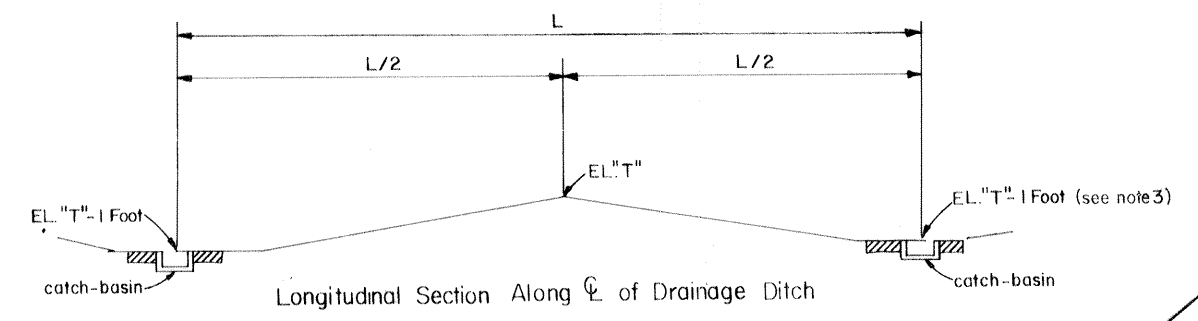


DETAIL OF PROTECTION LEVEE
VICINITY OF STA. 331+50
NOT TO SCALE

Safety is a Part of Your Contract



NEW ORLEANS EAST LAKEFRONT LEVEE
STA. 331+75 to STA. 390+90
NOT TO SCALE

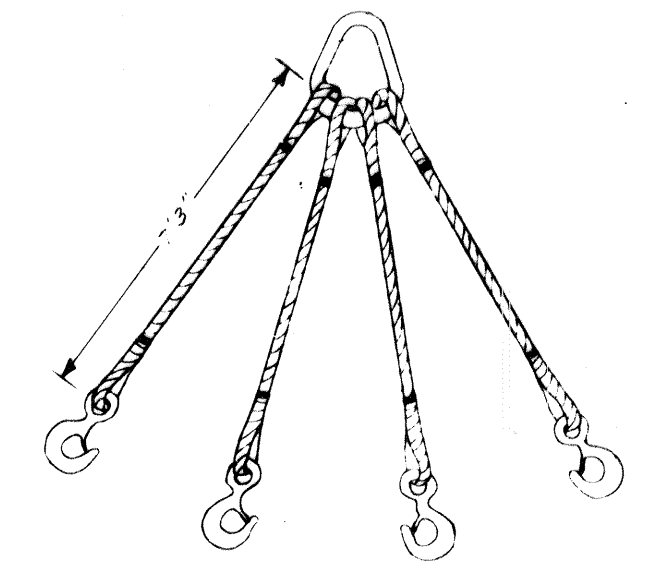
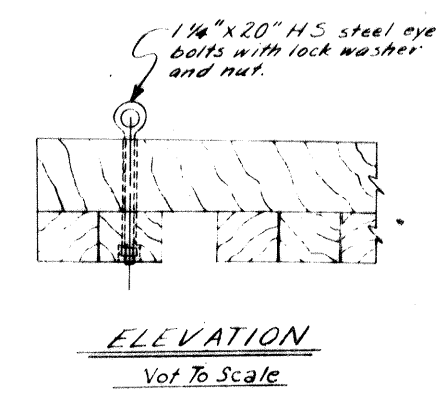
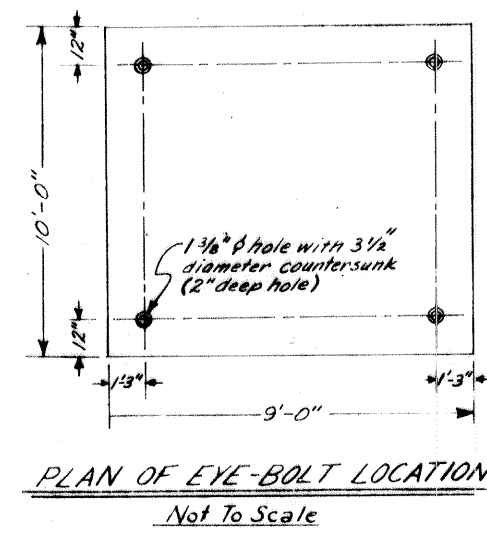
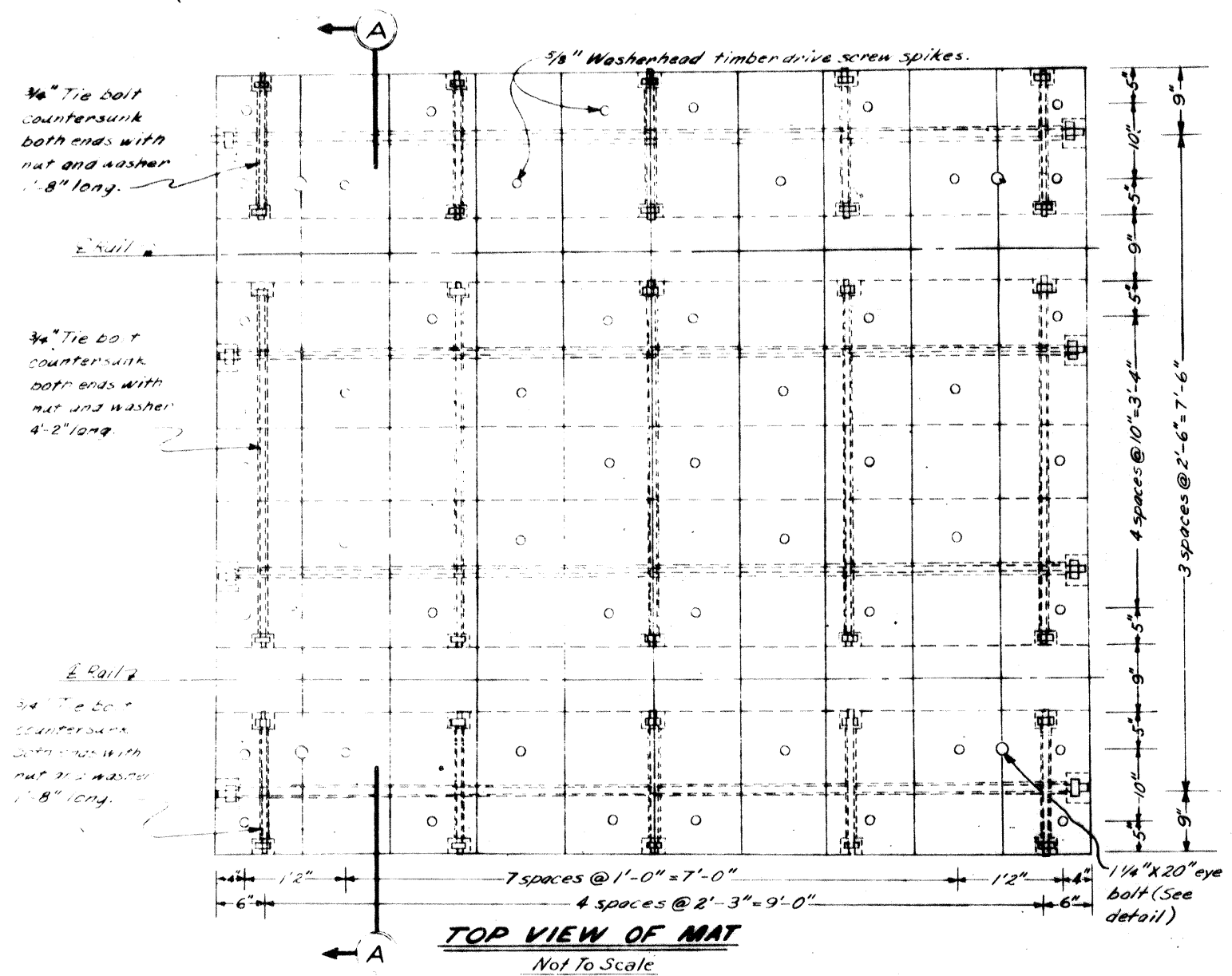


NEW ORLEANS EAST LAKEFRONT LEVEE
STA. 331+75 to STA. 390+90
NOT TO SCALE

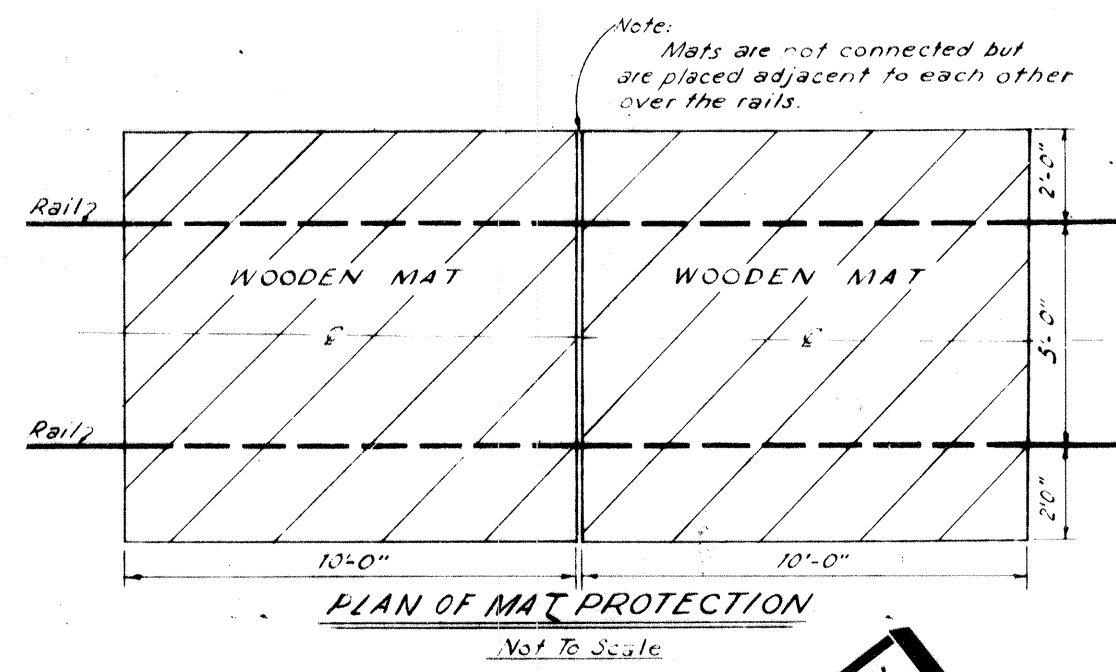
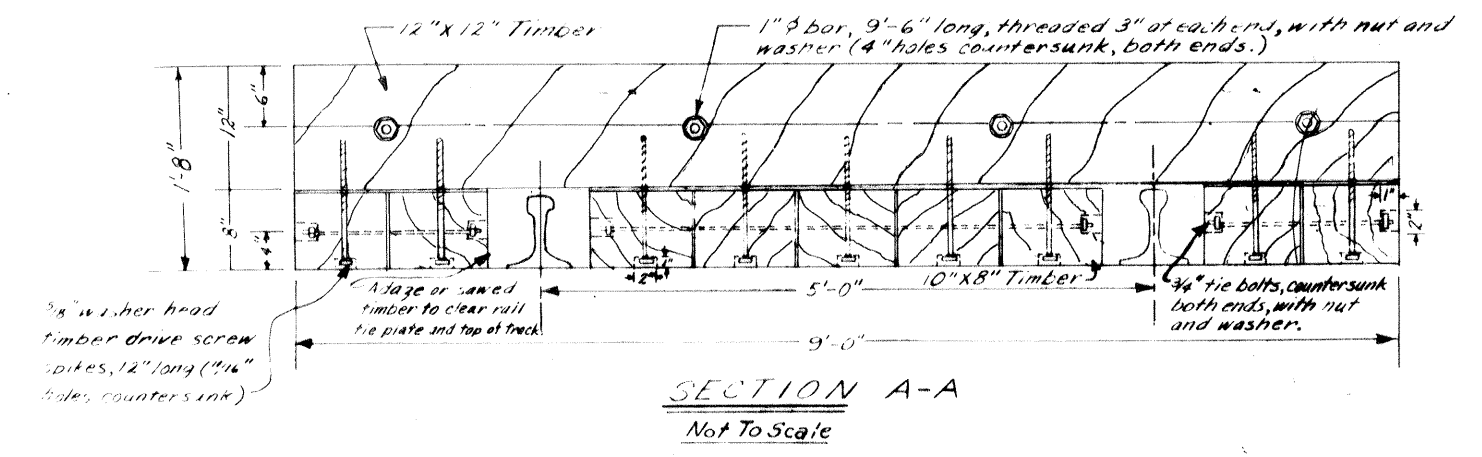
- NOTE:
- For general notes see dwg. no. 2.
 - The levee contractor shall coordinate his earthwork construction with the contractor driving the concrete sheet pile.
 - The E.I. of drainage ditch at the catch basins will be 1 foot lower than the E.I. of the midpoint of ditch, that is located between any two catch basins.

NOTE:
DRAWING REDUCED TO ONE HALF SCALE

REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA			
DETAILS OF PROTECTION LEVEE			
DESIGNED D.D.S.	DRAWN C.C.P.	CHECKED R.P.L.	DATE AUG. 1979
SCALE AS SHOWN		FILE NO. H-8-28076	
SUBMITTED <i>[Signature]</i>		SPEC. NO. DACW29-79-B-0254	
		PAGE 9 OF 22	



Note: It is recommended that the operating angle between leg and the vertical be kept between 60 degrees.

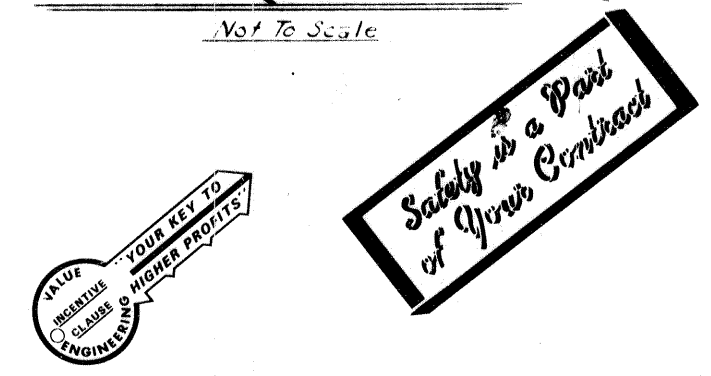


DATA FOR SLING

Diameter (in)	1/2
Cable Construction	7x7x7
Lope L (in)	4x8
Thimble Heavy T (in)	1/2-9/16
Hook Eye Hoist H No.	25
Shackle Screw Pin Anchor SPA Size	1/2
Slip Thru Thimble St. No.	3
Armored Loop Al No.	8
Str. Side Link SSL Size	1 3/8

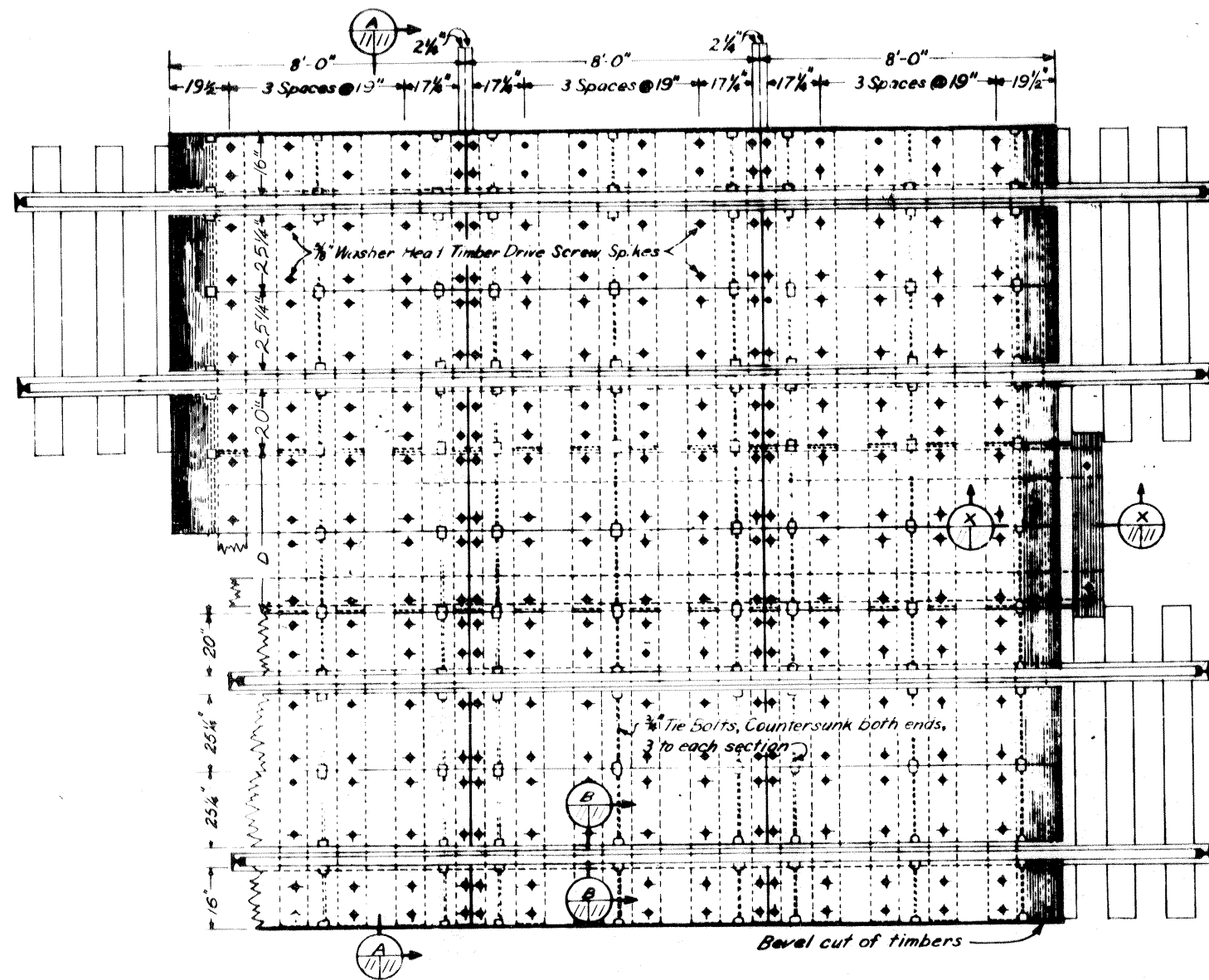
NOTE
1. For general notes see dwg no. 2

- NOTES**
1. Wooden mats are to be constructed of oak timber, and a minimum of 2 mats per track (rails) will be required.
 2. Track guard mats are to be placed over rails whenever any rock or broken concrete is aerially transported from the landside to the lakeside of railroad tracks during construction. Mats shall be placed in such a manner so that rails are not exposed to falling rock whenever machine bucket is swung over the tracks.
 3. Actual timber dimensions may be rough size or dressed size, except the 8" nominal dimension must be not less than 7 7/8" actual size.

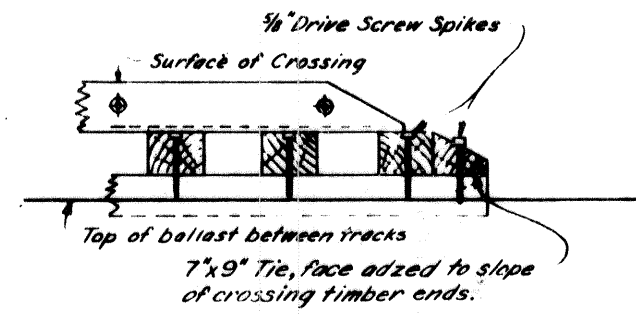


NOTE: DRAWING REDUCED TO ONE HALF SCALE

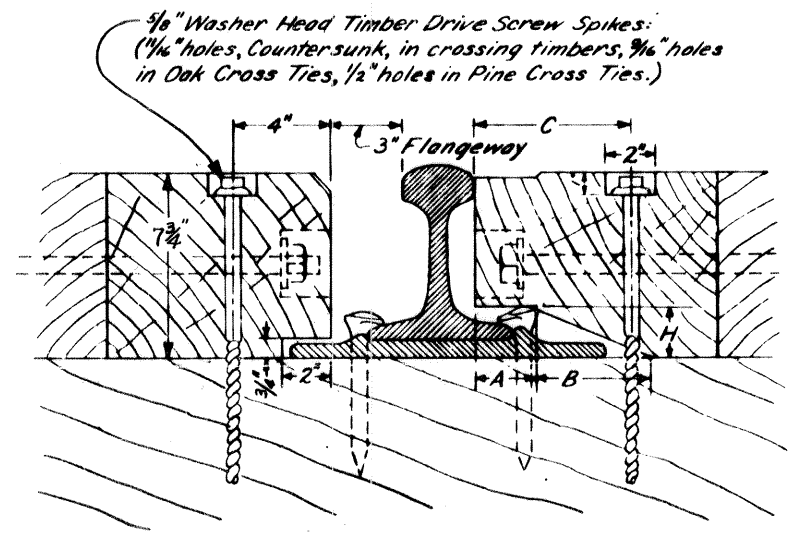
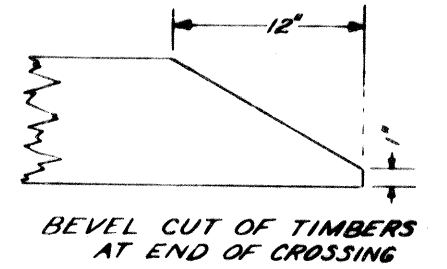
REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA			
RAILROAD TRACK GUARD MAT			
DESIGNED D.D.S.	DRAWN C.C.P.	CHECKED R.P.L.	DATE AUG. 1979
SCALE AS SHOWN		FILE NO. H-8-28076	
SUBMITTED D. D. S.		SPEC. NO. DACW29-79-B-0254	
		PAGE 10 OF 22	



PLAN — TIMBER CROSSING



SECTION (X-X)

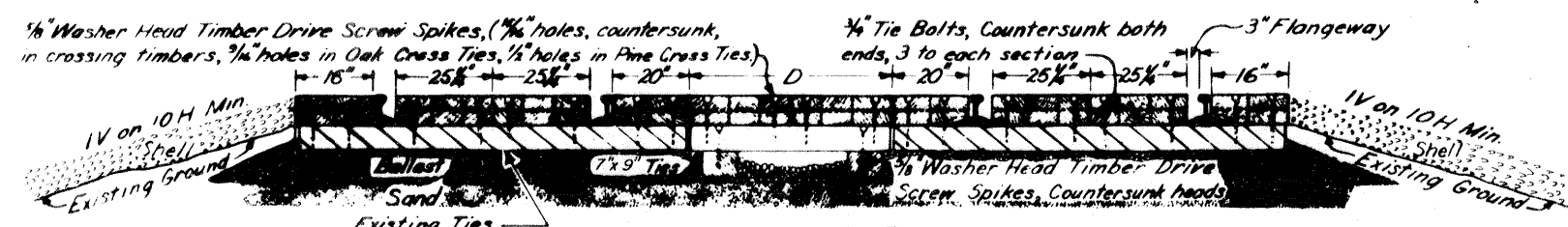


SECTION (A-A)

Weight of Rail, Lbs. per yd.	132 ⁰⁰
Thickness of Timbers "T"	7 1/4"
Dimension A, Section B	2 1/4"
Dimension B, Section B	4 1/4"
Dimension C, Section B	6 1/4"
Dimension H, Section B	2"
Length of Spike Required	12"

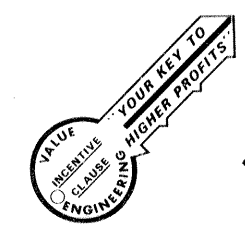
NOTES:

1. Timber to be gum, pine or oak sized on one face only, shaped and bored. Countersunk spike holes to be sealed with mastic after spikes are driven.
2. Timber mat and adjacent shell slopes to be constructed across existing ties and tracks, in the vicinity of levee baseline station 200+00.
3. Crossing to be constructed at right angle to existing tracks.
4. Width of crossing is 24 feet, out to beveled end timbers.
5. In the Section A and Plan View, the dimension D and the distance between track centers shall be determined in the field at the location of crossing.
6. Grade crossing to conform with either 100 lb./yd. rail or 132 lb./yd. rail, depending on existing rail.
7. All drawings on this sheet are drawn "not to scale".



SECTION (A-A)

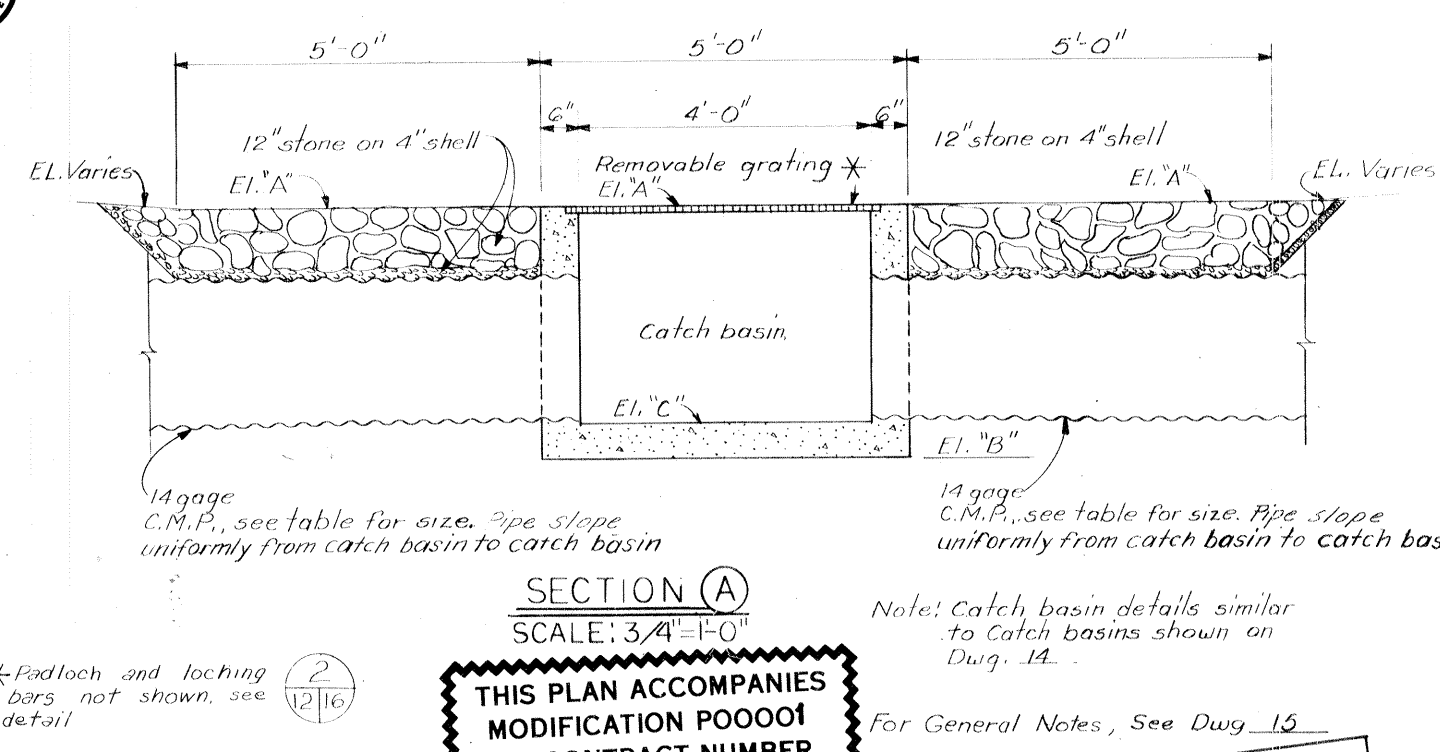
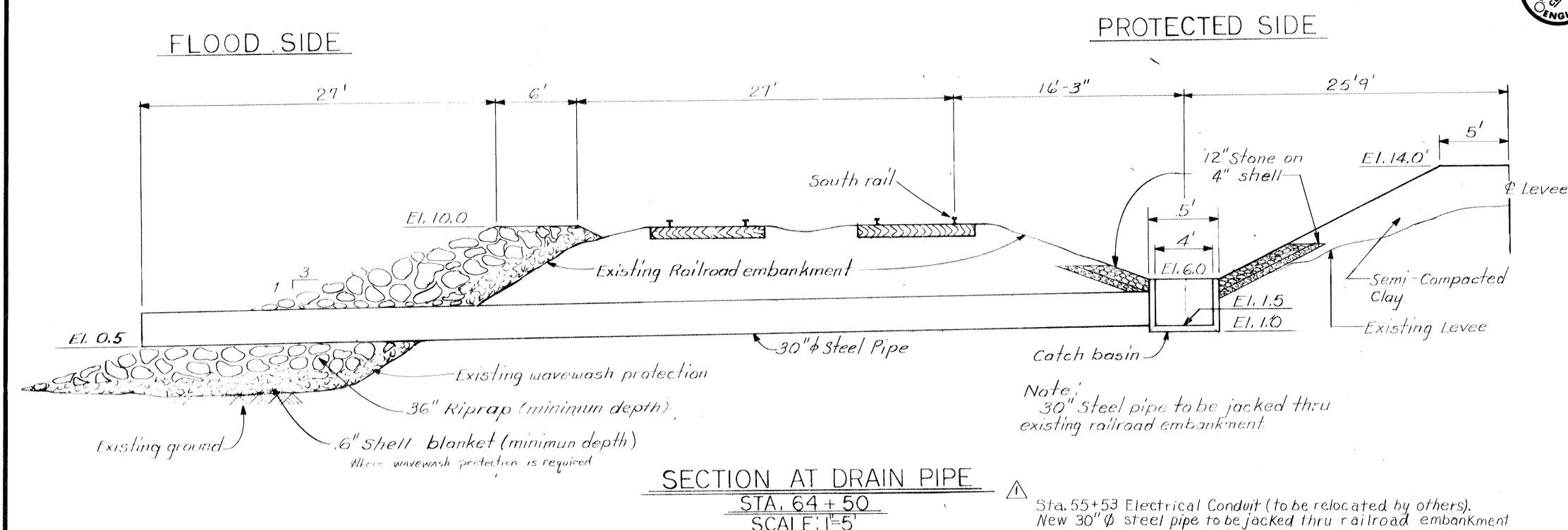
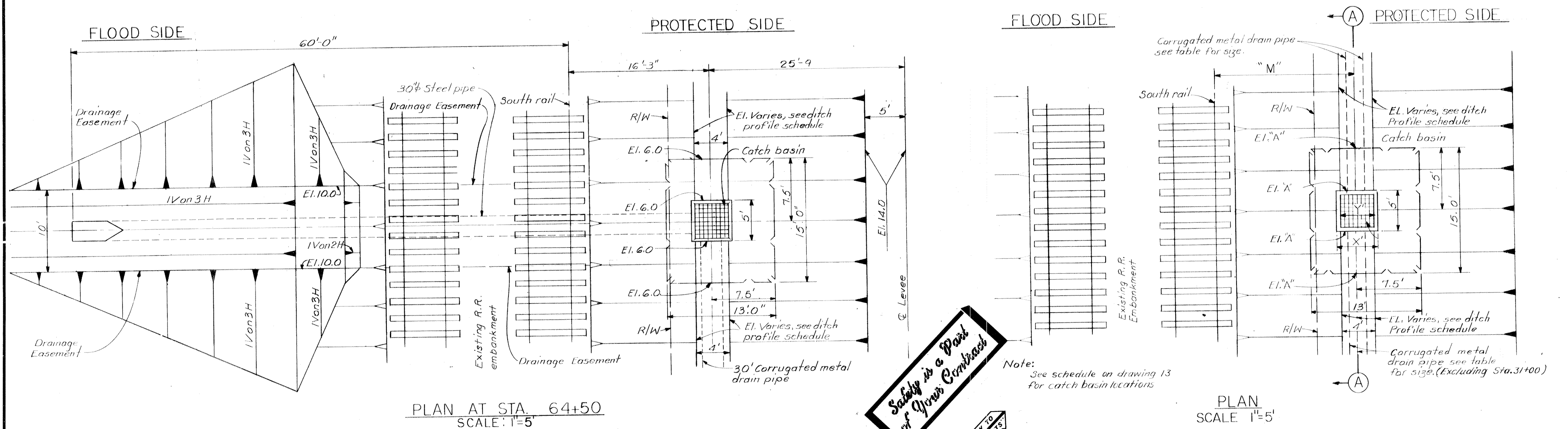
TIMBER MAT FOR RIGHT ANGLE CROSSING OVER EXISTING DOUBLE TRACKS



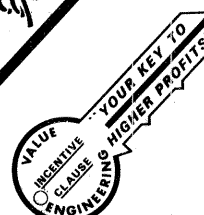
Safety is a Part of Your Contract

NOTE: DRAWING REDUCED TO ONE HALF SCALE

REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA			
TIMBER RAILROAD CROSSING			
DESIGNED	DRAWN	CHECKED	DATE
D.D.S.	C.C.P.	R.P.L.	AUG. 1979
SCALE AS SHOWN			FILE NO.
			H-8-28076
SPEC. NO.			DWG. NO.
DACW29-79-B-0254			11 OF 22



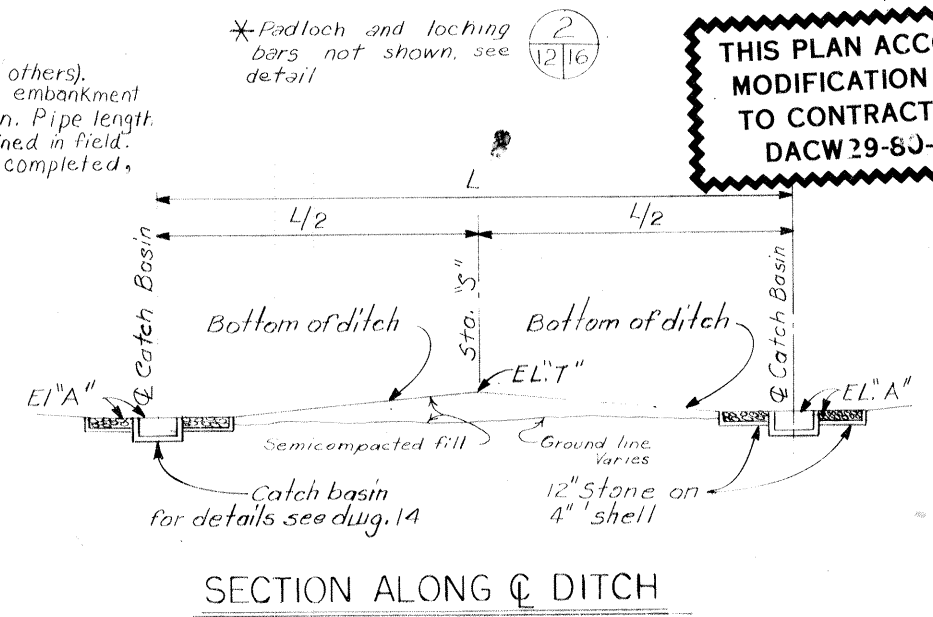
Safety is a Part of Every Contract



FROM STA.	TO STA.	SIZE
31+00	37+00	24"
37+00	43+00	24"
43+00	49+00	24"
49+00	55+00	24"
55+00	64+50	30"

LOCATION AND SIZE OF CATCH BASINS						
STATION BAL.	"M"	"X"	"Y"	EL. "A"	EL. "B"	EL. "C"
31+00	21'6"	5'	4'	6.0	3.0	3.5
37+00	21'6"	5'	4'	6.0	2.5	3.0
43+00	16'0"	5'	4'	5.0	2.0	2.5
49+00	20'9"	5'	4'	5.0	1.7	2.2
△ 55+53	20'3"	5'	4'	5.0	1.4	1.9
64+50	AS SHOWN					

DITCH PROFILE SCHEDULE					
STATION "S"	EL. "T"	STATION "S"	EL. "T"	STATION "S"	EL. "T"
34+00	7.0	107+00	7.0	181+00	7.0
40+00	7.0	113+00	6.0	187+00	7.0
46+00	6.0	119+00	6.0	193+00	7.0
52+00	6.0	125+00	6.0	199+00	7.0
59+50	7.0	131+00	6.0	205+00	7.0
66+75	7.0	137+00	6.0	211+00	7.0
72+00	7.0	143+00	6.0	217+00	7.0
77+00	7.0	149+00	7.0	223+00	7.0
83+00	7.0	157+00	7.0	229+00	7.0
89+00	7.0	163+00	7.0	235+00	7.0
95+00	7.0	169+00	7.0	241+00	7.0
101+00	7.0	175+00	7.0	330+50	7.0



THIS PLAN ACCOMPANIES MODIFICATION P0001 TO CONTRACT NUMBER DACW29-80-C-0035

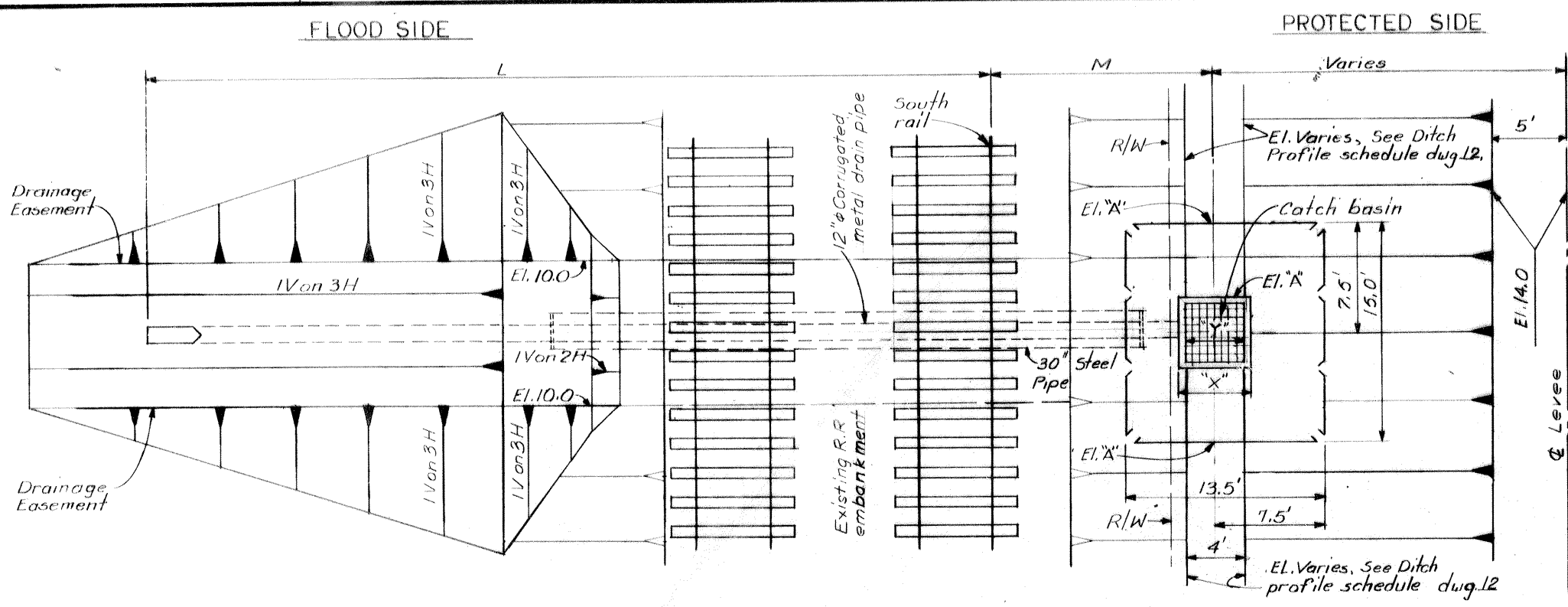
NOTE: DRAWING REDUCED TO ONE HALF SCALE

REVISION	DATE	DESCRIPTION	BY
15Feb80		Addition of 30" φ steel pipe and new location for catch basin. Mod. # 1	

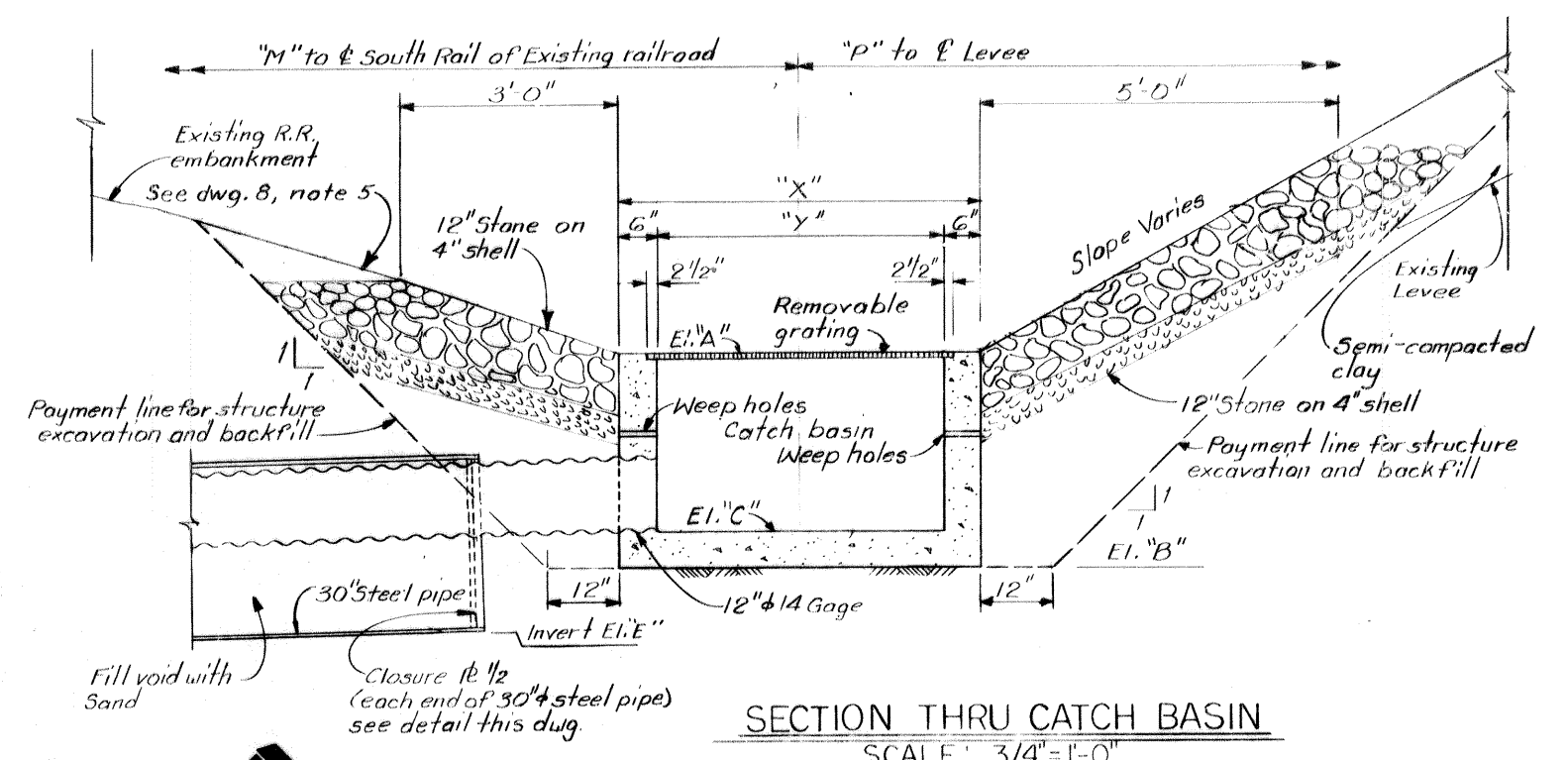
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN BARRIER PLAN
CITRUS LAKEFRONT LEVEE
IHNC TO PARIS ROAD
ORLEANS PARISH, LOUISIANA
LEVEE DRAINAGE DETAILS

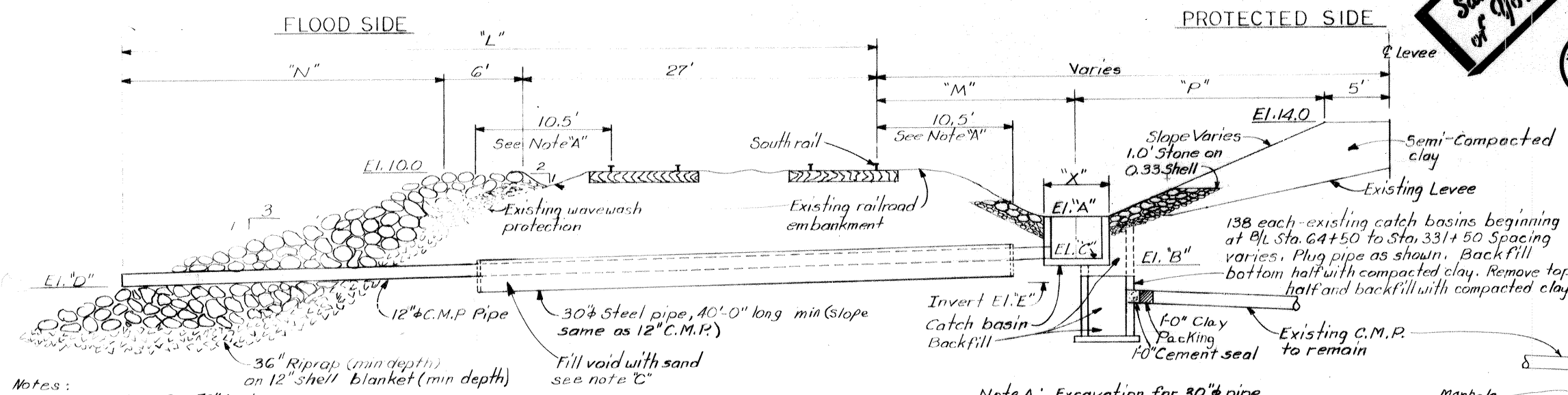
DESIGNED: L.L.W.	DRAWN: J.J.H.	CHECKED: L.L.W.	DATE: AUG. 1979	SCALE: AS SHOWN	FILE NO: H-8-28076
SUBMITTED:	SPEC. NO. DACW29-79-B-0254	DWG. 12	OF 22		



PLAN
TYPICAL AT 600' INTERVALS
BEGINNING AT STA. 69+00
SCALE: 1"=5'

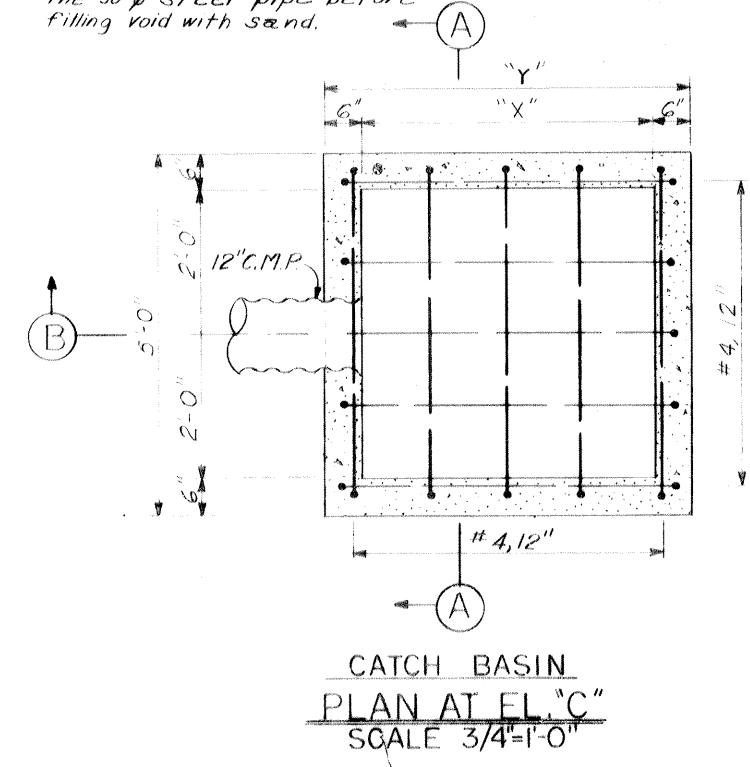


SECTION THRU CATCH BASIN
SCALE: 3/4"=1'-0"

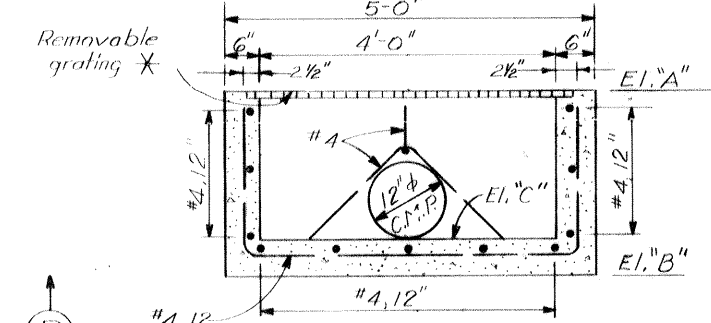


SECTION AT DRAIN PIPE
SCALE: 1"=5'

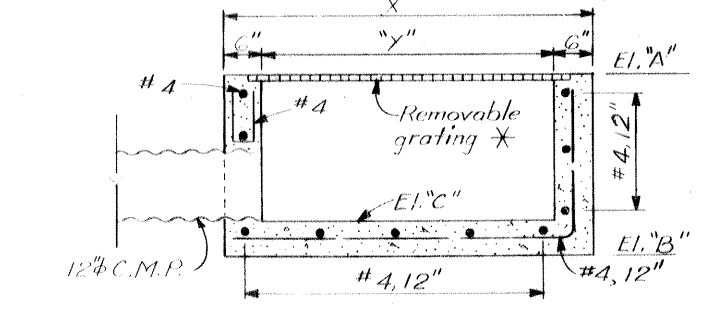
- Notes:
- A. Excavation for 30" pipe installation shall not be closer than 10'-6" from nearest rail.
 - B. 30" steel pipe to be jacked thru existing railroad embankment.
 - C. Contractor shall provide interim support for the 12" C.M.P. inside the 30" steel pipe before filling void with sand.



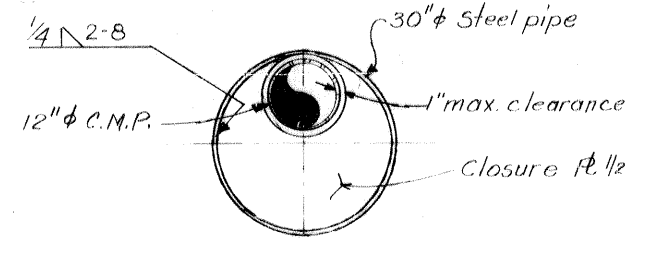
CATCH BASIN
PLAN AT EL. 'C'
SCALE 3/4"=1'-0"



SECTION (A)
SCALE 3/4"=1'-0"

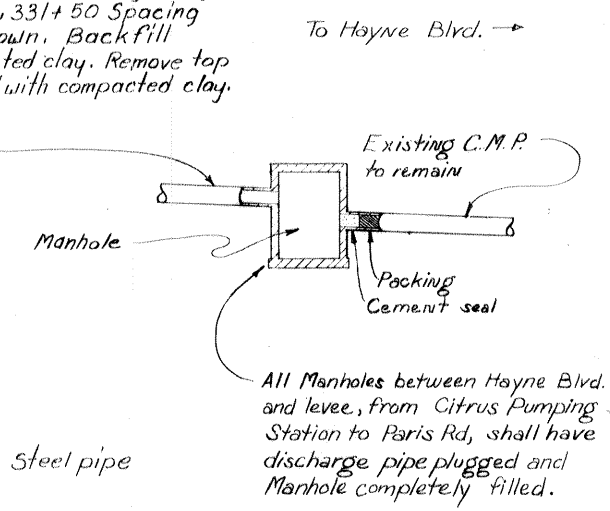
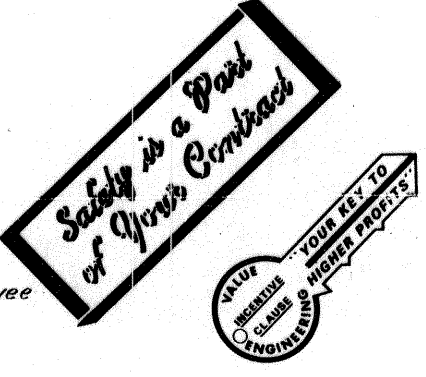


SECTION (B)
SCALE: 3/4"=1'-0"



TYPICAL DETAIL AT EACH END
OF 30" STEEL PIPE
SCALE: 3/4"=1'-0"

* Removable Grating Borden Type W/B with 1/2 x 3/8" bearing bars or equal. Padlock and locking bars not shown, see detail



All Manholes between Hayne Blvd. and levee, from Citrus Pumping Station to Paris Rd, shall have discharge pipe plugged and Manhole completely filled.

STA. (BL) * AT C.V. CATCH BASIN	ELEVATIONS					DIMENSIONS					
	"A"	"B"	"C"	"D"	"E"	"L"	"M"	"N"	"P"	"Q"	
69+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-0"	24-0"	18-0"	3-6"	2-6"
75+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-3"	24-0"	18-0"	3-6"	2-6"
80+00	6.0	2.5	3.0	2.0	1.8	57-0"	14-9"	24-0"	20-3"	3-6"	2-6"
86+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-0"	24-0"	20-3"	3-6"	2-6"
92+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-0"	24-0"	20-3"	3-6"	2-6"
98+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-0"	24-0"	20-3"	3-6"	2-6"
104+00	6.0	2.5	3.0	2.0	1.8	57-0"	17-3"	24-0"	20-3"	3-6"	2-6"
110+00	5.0	2.0	2.5	1.5	1.3	58-6"	15-9"	25-6"	21-3"	3-6"	2-6"
116+00	5.0	2.0	2.5	1.5	1.3	58-6"	15-0"	25-6"	21-3"	3-6"	2-6"
122+00	5.0	2.0	2.5	1.5	1.3	58-6"	15-0"	25-6"	21-3"	3-6"	2-6"
128+00	5.0	2.0	2.5	1.5	1.3	58-6"	15-0"	25-6"	21-3"	3-6"	2-6"
134+00	5.0	2.0	2.5	1.5	1.3	58-6"	14-0"	25-6"	21-3"	3-6"	2-6"
140+00	5.0	2.0	2.5	1.5	1.3	58-6"	16-3"	25-6"	21-3"	3-6"	2-6"
146+00	5.0	2.0	2.5	1.5	1.3	58-6"	16-9"	25-6"	21-3"	3-6"	2-6"
152+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-6"	24-0"	18-9"	3-6"	2-6"
160+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-0"	24-0"	18-9"	3-6"	2-6"
166+00	6.0	2.5	3.0	2.0	1.8	57-0"	14-9"	24-0"	18-9"	3-6"	2-6"
172+00	6.0	2.5	3.0	2.0	1.8	57-0"	14-6"	24-0"	18-9"	3-6"	2-6"
178+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-0"	24-0"	18-9"	3-6"	2-6"
184+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-0"	24-0"	18-9"	3-6"	2-6"
190+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-3"	24-0"	18-9"	3-6"	2-6"
196+00	6.0	2.5	3.0	2.0	1.8	57-0"	14-6"	24-0"	18-9"	3-6"	2-6"
202+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-9"	24-0"	18-9"	3-6"	2-6"
208+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-3"	24-0"	18-9"	3-6"	2-6"
214+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-9"	24-0"	18-9"	3-6"	2-6"
220+00	6.0	2.5	3.0	2.0	1.8	57-0"	16-9"	24-0"	18-9"	3-6"	2-6"
226+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-9"	24-0"	18-9"	3-6"	2-6"
232+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-9"	24-0"	18-9"	3-6"	2-6"
238+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-6"	24-0"	20-3"	3-6"	2-6"
244+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-3"	24-0"	20-3"	3-6"	2-6"
250+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-9"	24-0"	20-3"	3-6"	2-6"
256+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-0"	24-0"	18-9"	3-6"	2-6"
262+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-6"	24-0"	18-9"	3-6"	2-6"
268+00	6.0	2.5	3.0	2.0	1.8	57-0"	14-9"	24-0"	18-9"	3-6"	2-6"
274+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-3"	24-0"	18-9"	3-6"	2-6"
280+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-0"	24-0"	18-9"	3-6"	2-6"
286+25	6.0	2.5	3.0	2.0	1.8	57-0"	14-3"	24-0"	20-3"	3-6"	2-6"
306+50	6.0	2.5	3.0	2.0	1.8	57-0"	14-0"	24-0"	20-3"	3-6"	2-6"
311+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-6"	24-0"	20-3"	3-6"	2-6"
317+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-0"	24-0"	20-3"	3-6"	2-6"
323+00	6.0	2.5	3.0	2.0	1.8	57-0"	17-6"	24-0"	20-3"	3-6"	2-6"
329+00	6.0	2.5	3.0	2.0	1.8	57-0"	15-0"	24-0"	20-3"	3-6"	2-6"

* Baseline Stations are approximate. Catch basins may be moved a maximum of 10 feet east or west so as not to interfere with existing camp site walkways.

REVISION	DATE	DESCRIPTION	BY

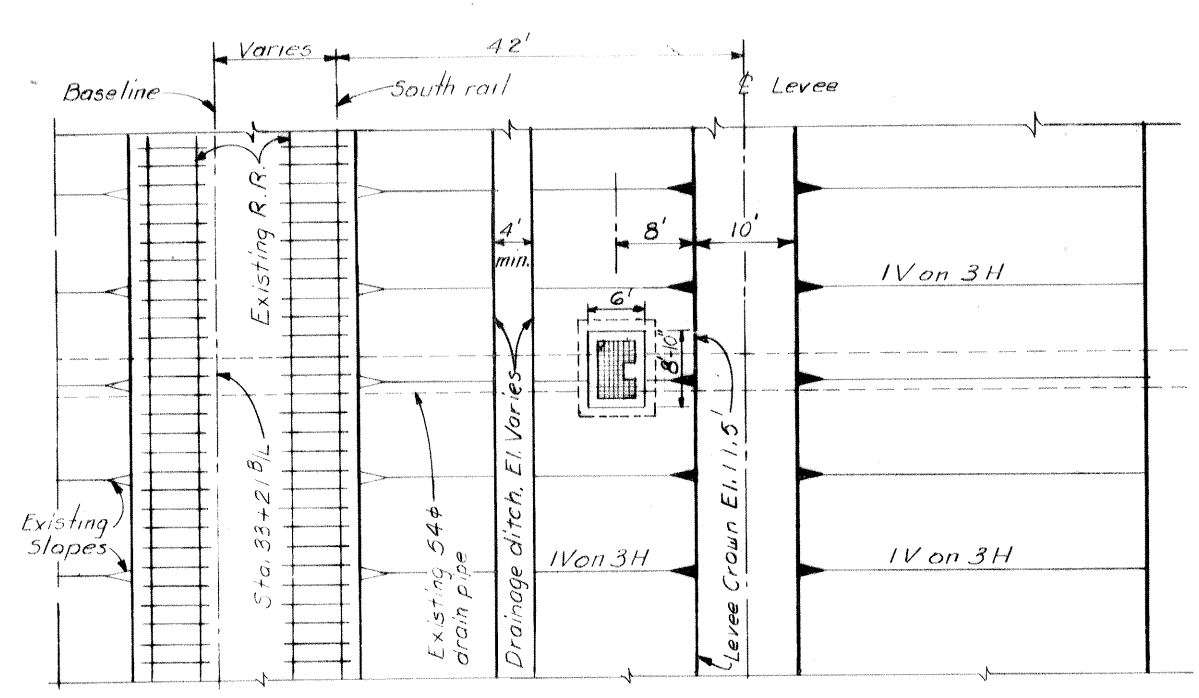
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN BARRIER PLAN
CITRUS LAKEFRONT LEVEE
IHNC TO PARIS ROAD
ORLEANS PARISH, LOUISIANA
LEVEE DRAINAGE DETAILS

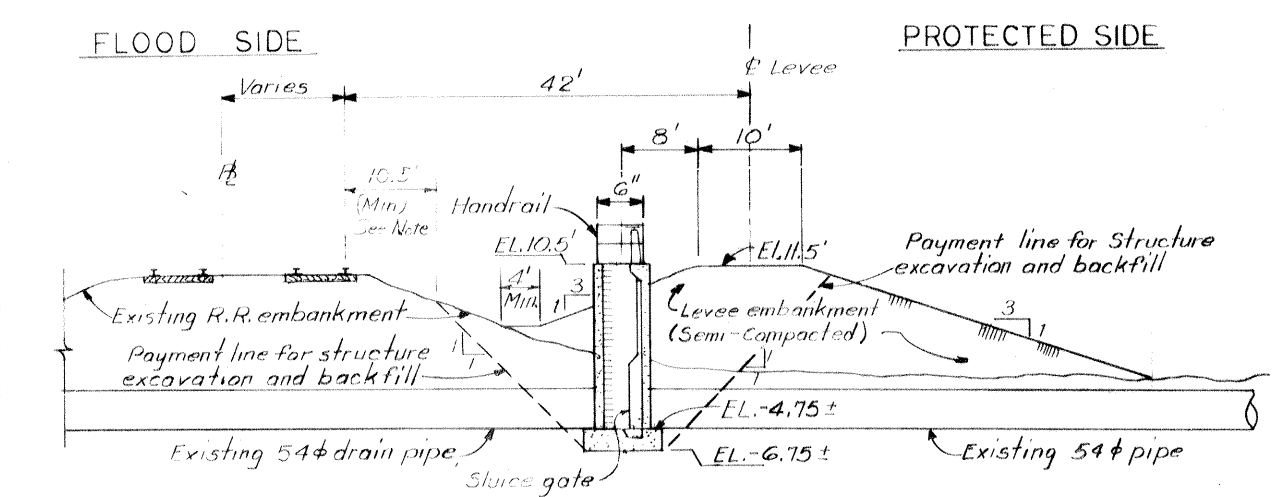
DESIGNED: L.L.W.	DRAWN: J.J.H.	CHECKED: L.L.W.	DATE: AUG. 1979	SCALE: AS SHOWN	FILE NO: H-8-28076
SUBMITTED: [Signature]	SPEC NO: DACW29-79-B-0254	DWG: 13	OF: 22		

NOTE: DRAWING REDUCED TO ONE HALF SCALE

For General notes, see dwg. 15

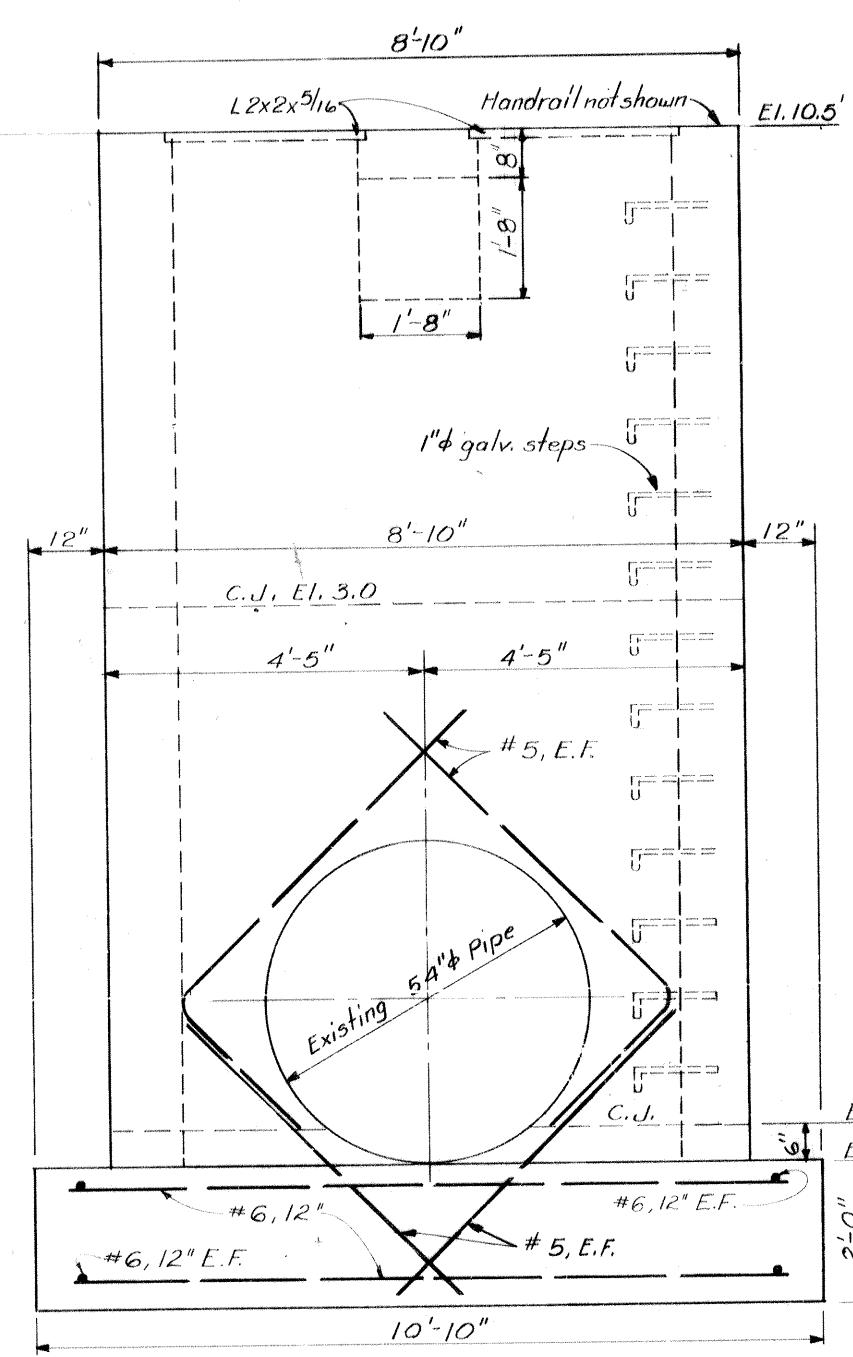


PLAN
SCALE: 1"=10'

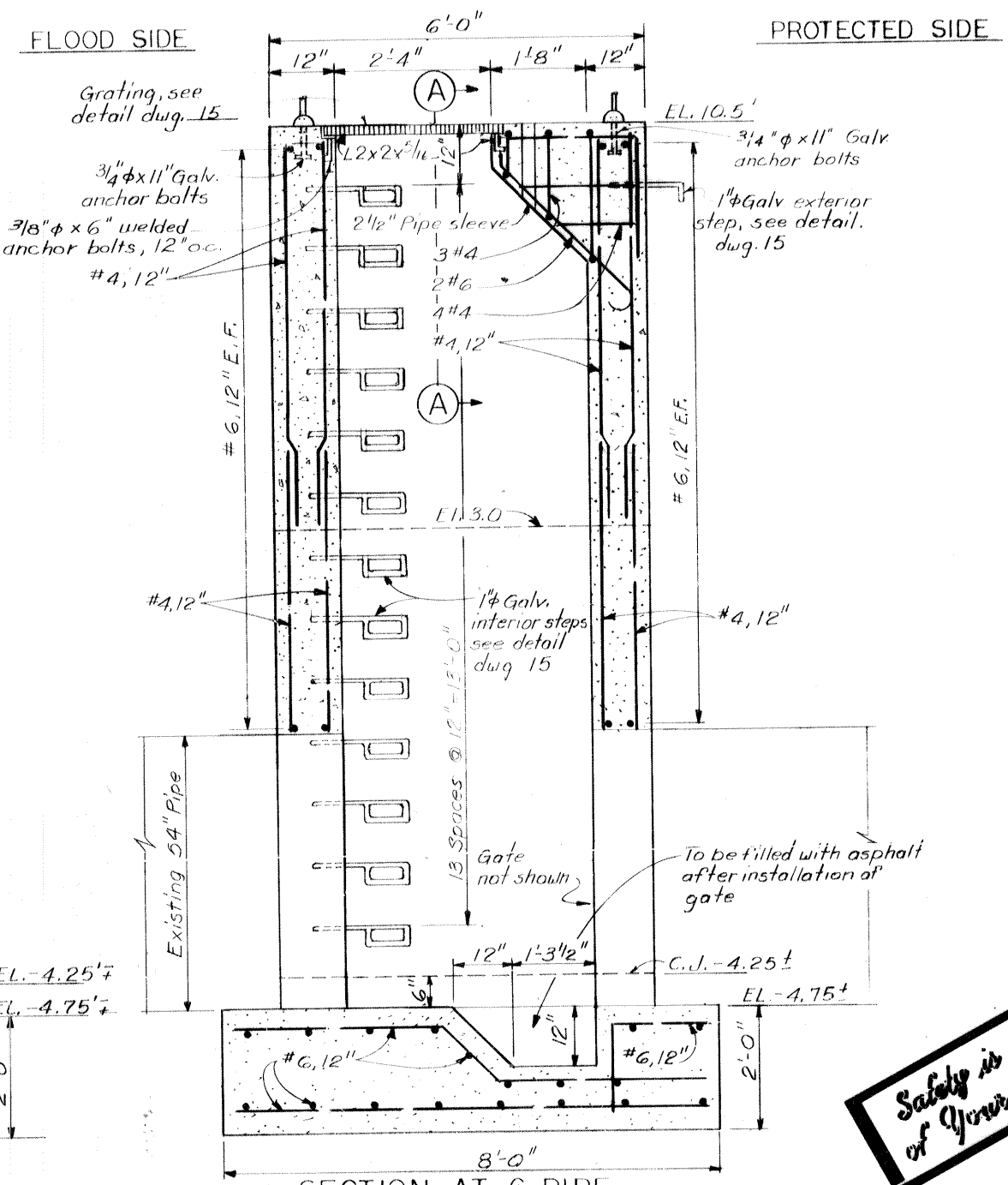


SECTION AT STA. 33+21 1/4
SCALE: 1"=10'

Note:
1. All work shall be in accordance with the specifications for the project.
2. The contractor shall be responsible for obtaining all necessary permits.
3. The contractor shall be responsible for the safety of the work.

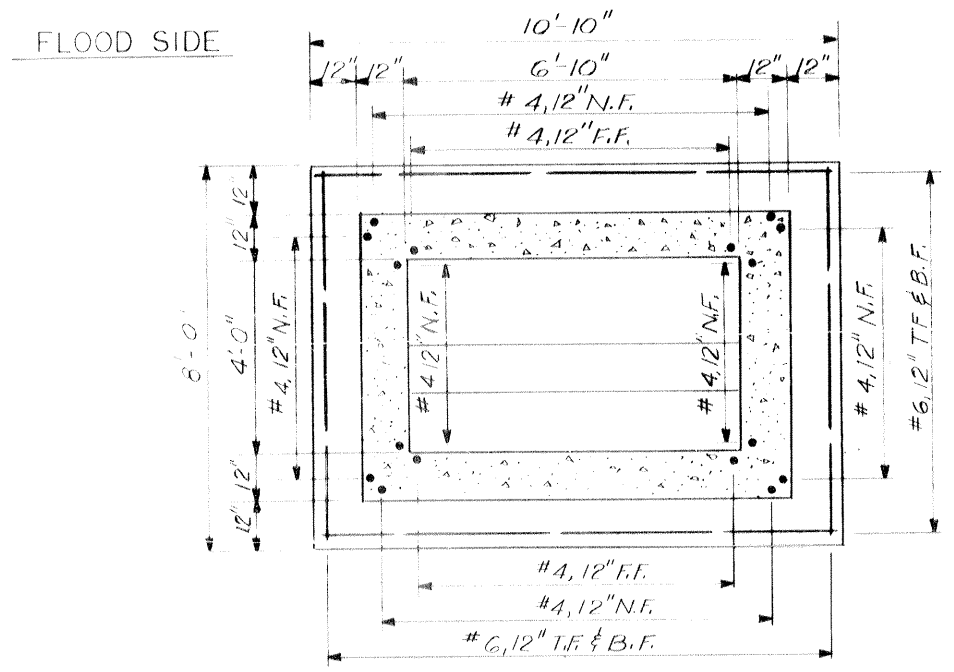
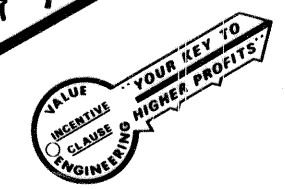


PROTECTED SIDE ELEVATION
SCALE: 3/4"=1'-0"

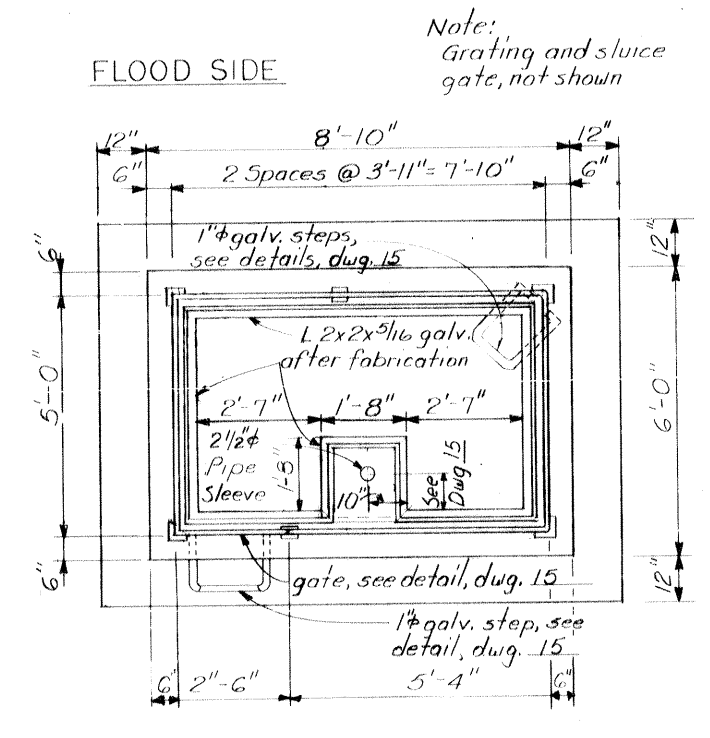


SECTION AT C PIPE
SCALE: 3/4"=1'-0"

Safety is a Part of Your Contract

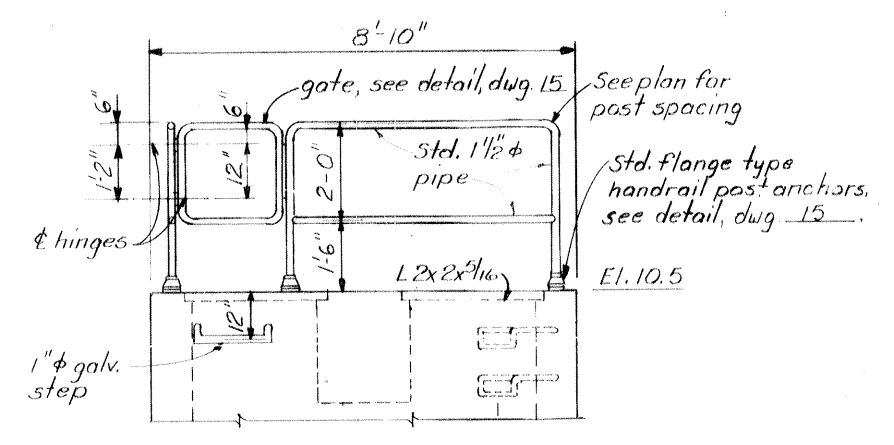


PLAN AT EL. -4.74
SCALE: 1/2"=1'-0"

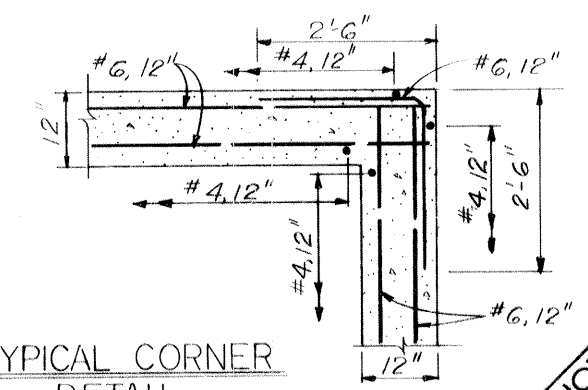


PLAN
SCALE: 1/2"=1'-0"

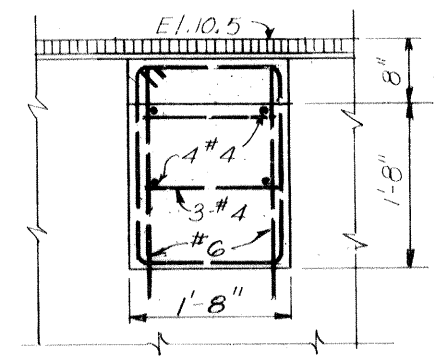
Note:
Grating and sluice gate, not shown



HANDRAIL ELEVATION
SCALE: 1/2"=1'-0"



TYPICAL CORNER DETAIL
SCALE: 3/4"=1'-0"

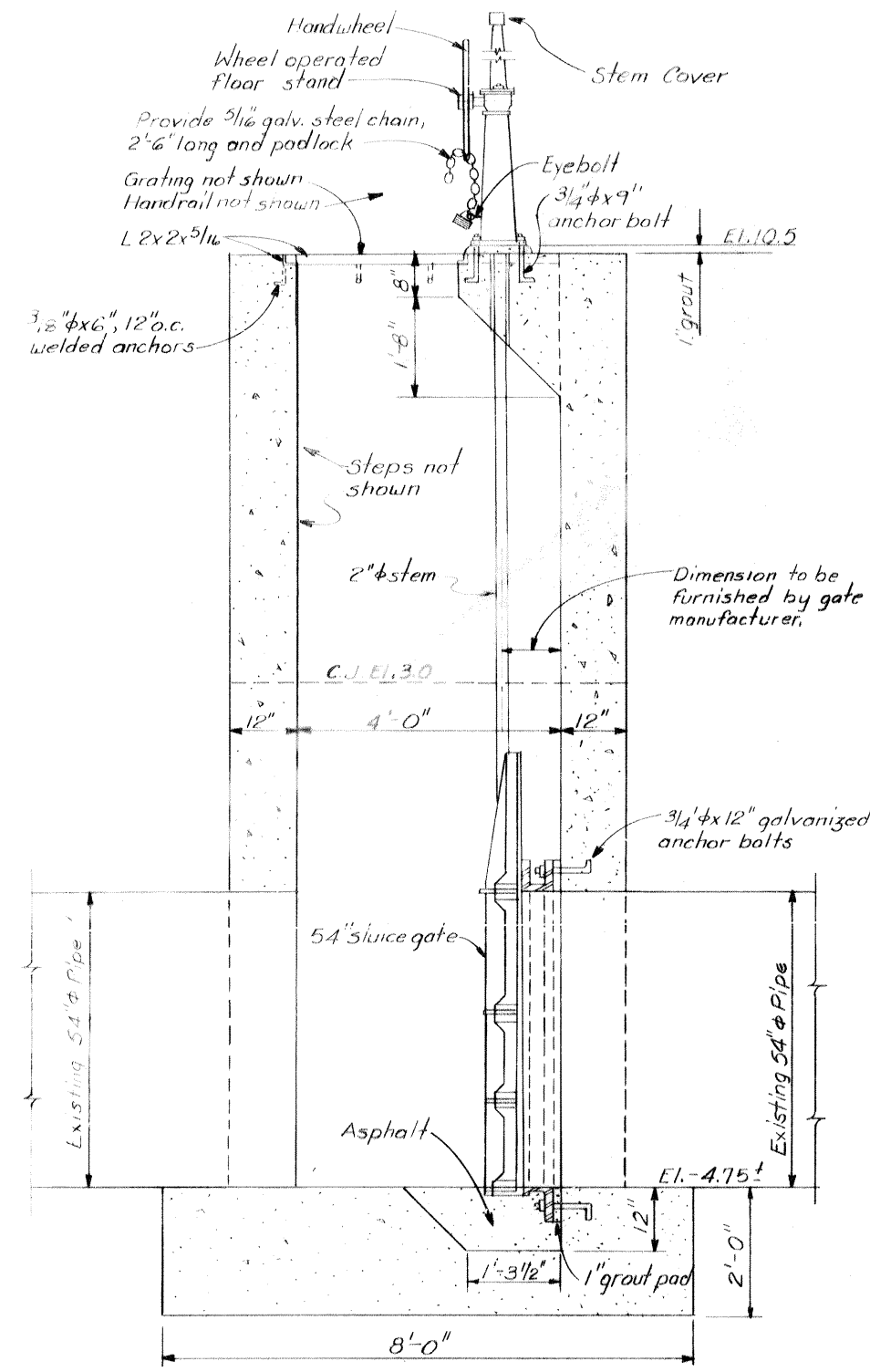


SECTION A-A
SCALE: 3/4"=1'-0"

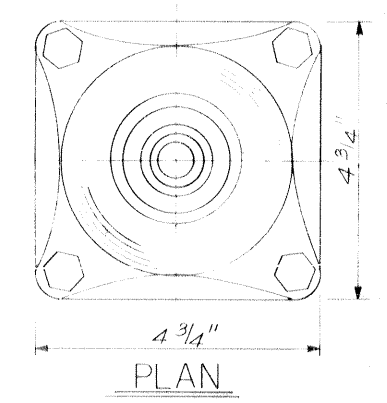
For General Notes see dwg. 15

NOTE: DRAWING REDUCED TO ONE HALF SCALE

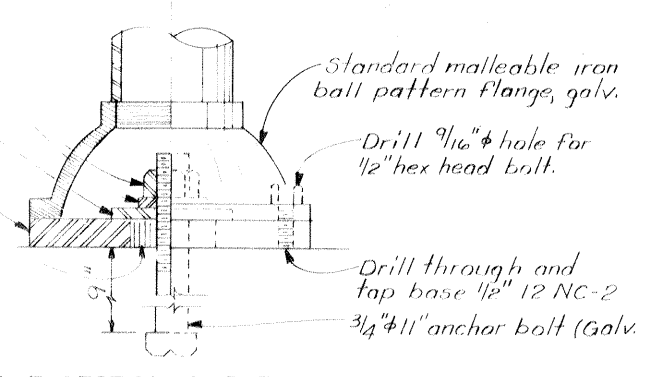
REVISION	DATE	DESCRIPTION	BY
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEEVE IHC TO PARIS ROAD ORLEANS PARISH, LOUISIANA SLUICE GATE STRUCTURE PLANS ELEVATIONS AND SECTIONS			
DESIGNED	DRAWN	CHECKED	DATE
LL.W.	J.J.H.	LL.W.	AUG. 1979
SUBMITTED	AS SHOWN	FILE NO.	
			H-8-28076
SPEC. P/O		DWG. 14 OF 22	
DACW29-79-B-0254			



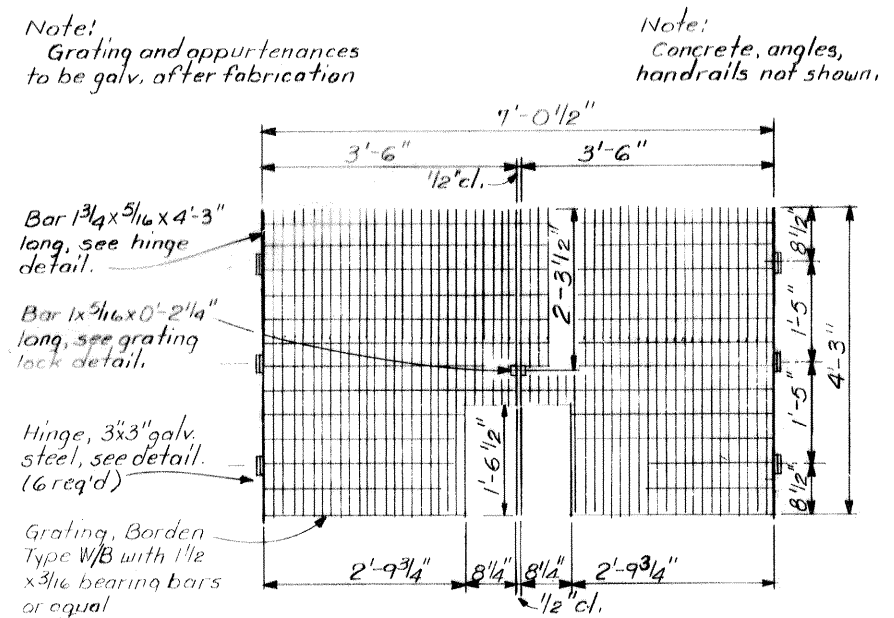
SLUCE GATE DETAIL
SCALE: 3/4"=1'-0"



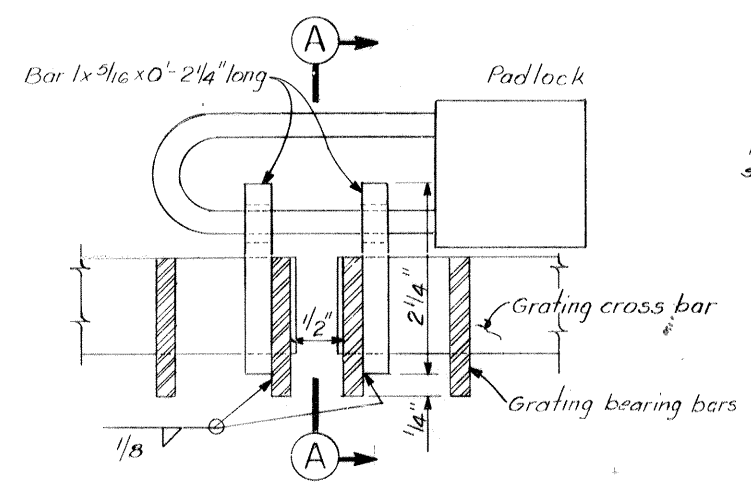
PLAN



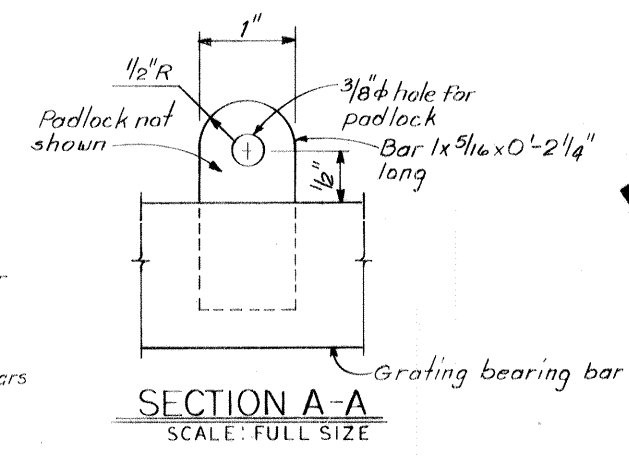
HALF SECTION AND ELEVATION STANDARD HANDRAIL POST ANCHOR DETAIL
NOT TO SCALE



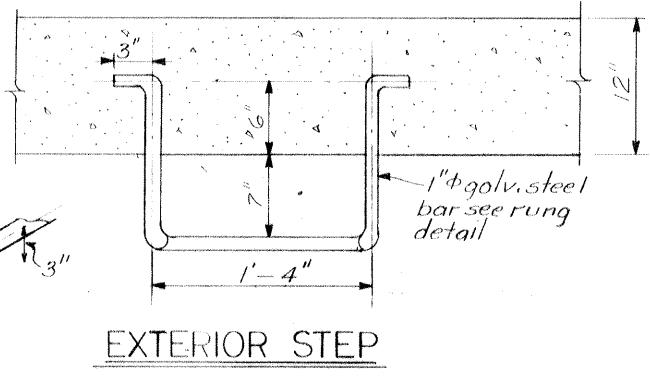
GRATING DETAIL
SCALE: 3/4"=1'-0"



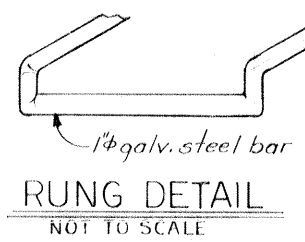
GRATING LOCK DETAIL
SCALE: FULL SIZE



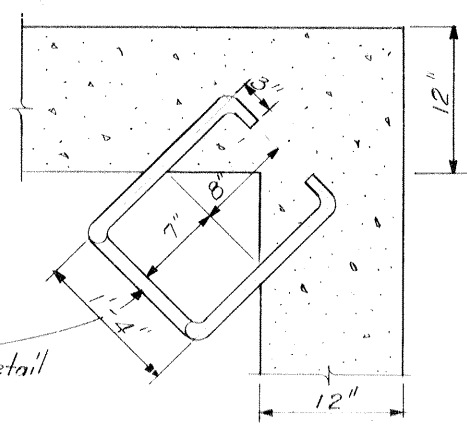
SECTION A-A
SCALE: FULL SIZE



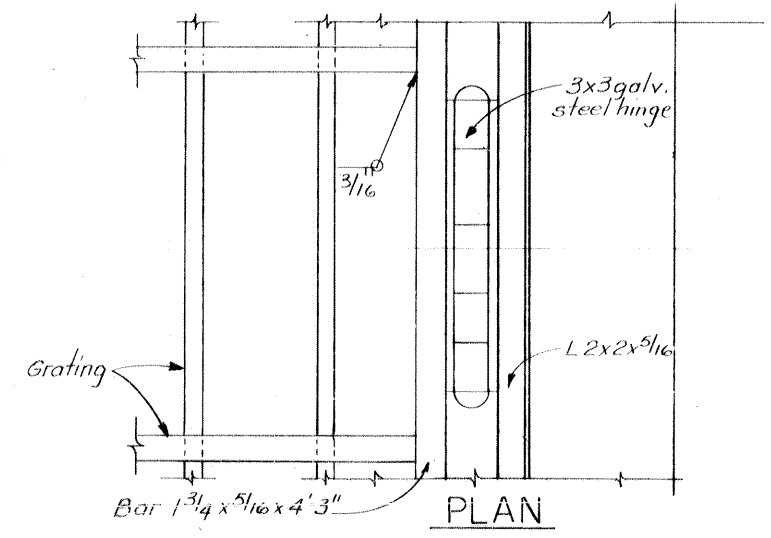
EXTERIOR STEP



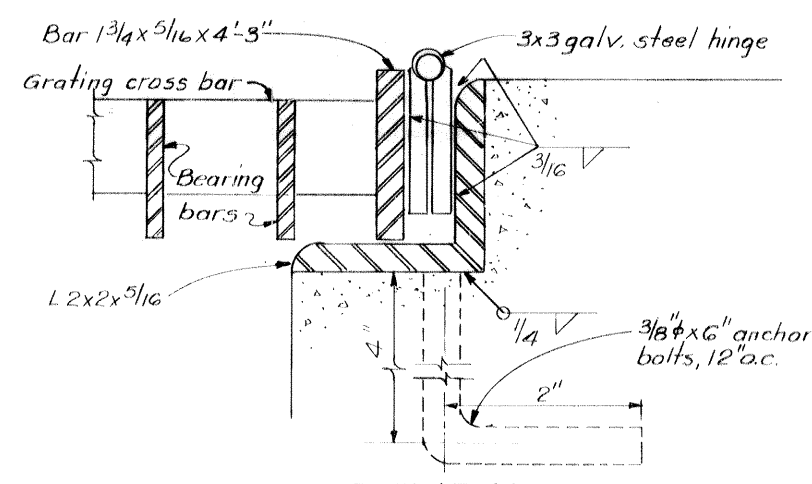
RUNG DETAIL
NOT TO SCALE



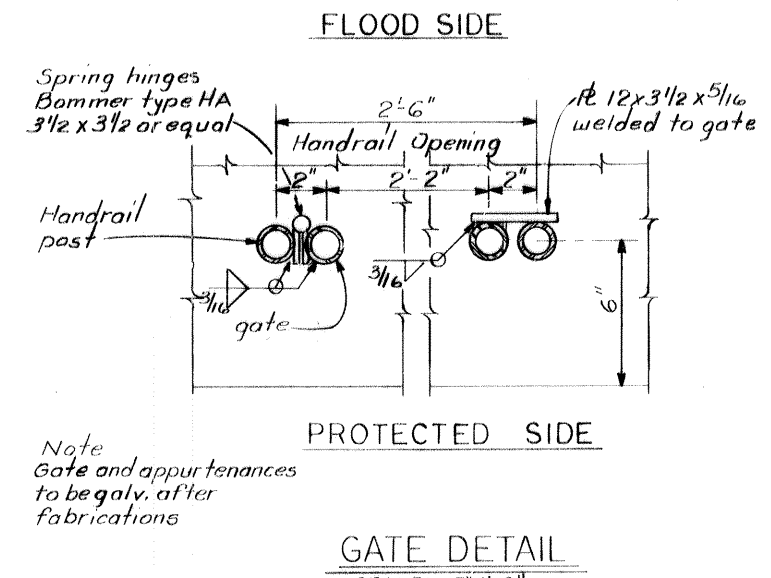
INTERIOR STEPS, TYPICAL STEP DETAILS
SCALE: 1/2"=1'-0"



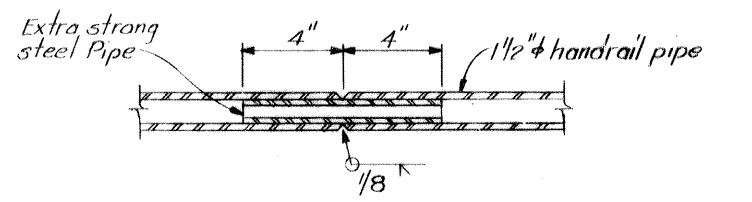
PLAN



ELEVATION HINGE DETAIL
SCALE: FULL SIZE



GATE DETAIL
SCALE: 3/4"=1'-0"



TYPICAL HANDRAIL SPLICE DETAIL
SCALE: 3/4"=1'-0"

Note: Make splice 6" from edge of handrail post

- GENERAL NOTES:**
- Elevations are expressed in feet and refer to M.G.V.D.
 - All concrete finishes shall be as required in the specifications.
 - All exposed joints, edges, external corners and vertical expansion joints shall be chamfered 3/4 inches and dummy chamfers and false pints shall be used to provide a neat and uniform appearance.
 - All primary reinforcing shall have a minimum cover of 2 1/2 inches. The cover of secondary reinforcing may be reduced from that above by the size of the bar.
 - Reinforcing bar designation numbers conform to the current numbering system of the concrete Reinforcing Steel Institute.
 - All reinforcing splices shall be lapped according to the following table:

BAR SIZE NO.	MINIMUM LAP LENGTH - INCHES	
	TOP BARS	OTHER BARS
3	12	12
4	14	14
5	18	18
6	24	22
7	33	25
8	43	30

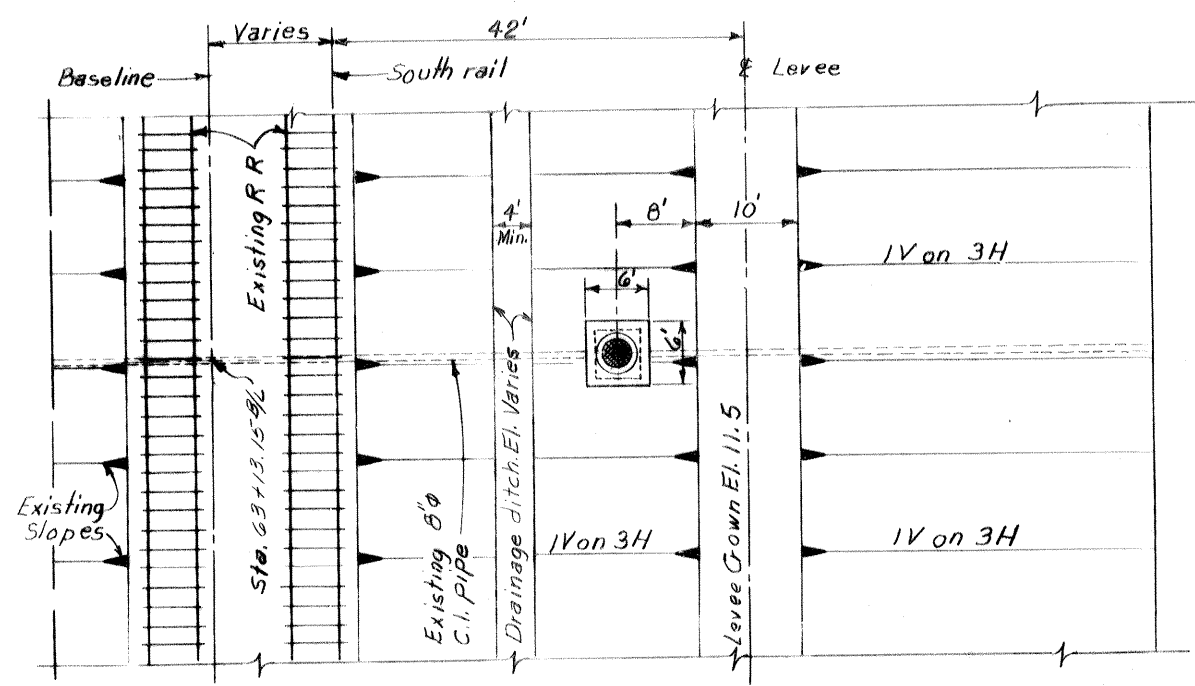
7. All reinforcing embedment lengths shall be as shown in the following table:

BAR SIZE NO.	MIN. EMBEDMENT LENGTH - INCHES	
	TOP BARS	OTHER BARS
3	6	6
4	7	6
5	11	7
6	15	11
7	21	15
8	27	19

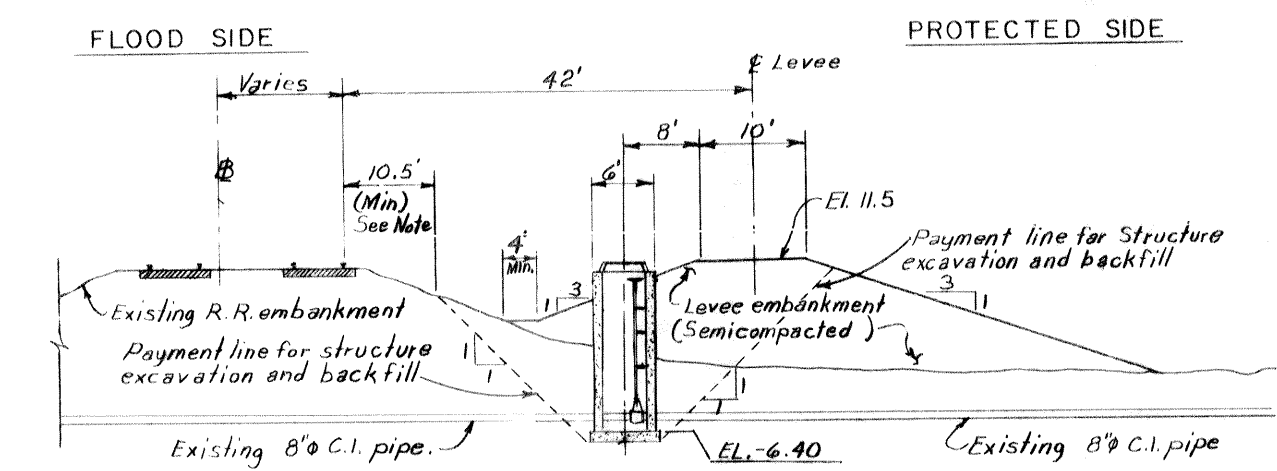


NOTE: DRAWING REDUCED TO ONE HALF SCALE.

REVISION	DATE	DESCRIPTION	BY
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA. LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA SLUCE GATE STRUCTURE DETAILS			
DESIGNED	DRAWN	CHECKED	DATE
LL.W.	J.J.H.	L.L.W.	AUG. 1979
SUBMITTED	SPEC. NO.	SCALE	FILE NO.
	DACW29-79-B-0254	AS SHOWN	H-8-28076
			DWG. 15 OF 22

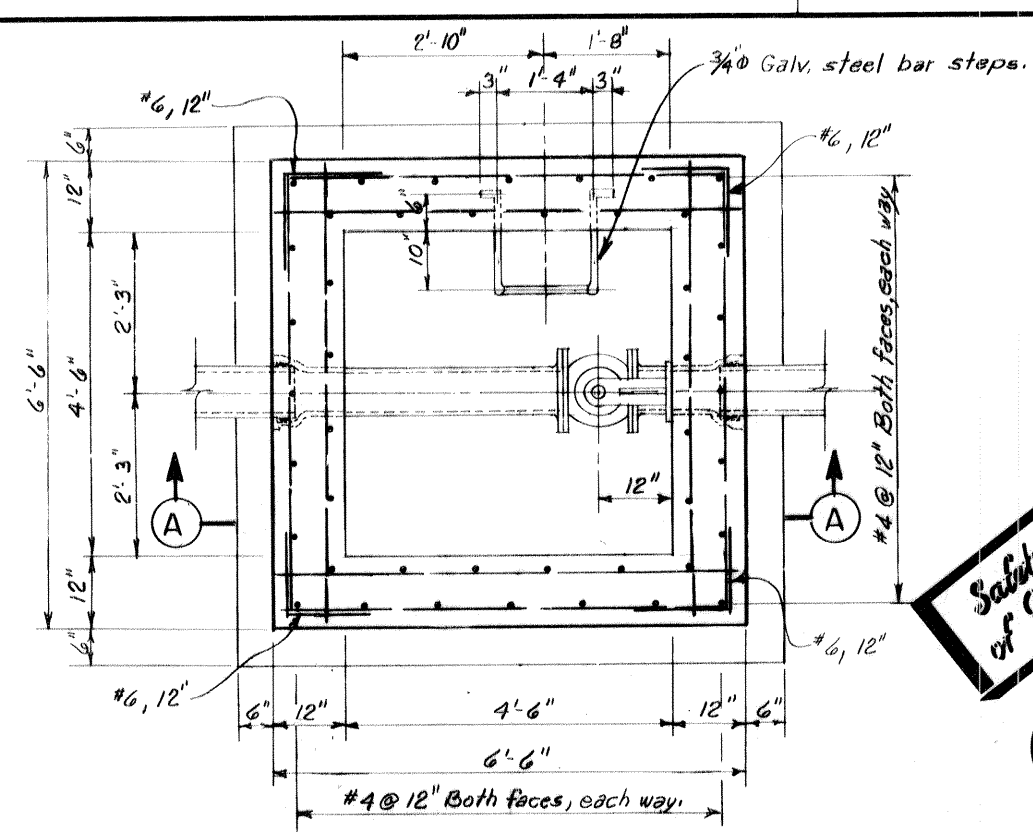


PLAN
SCALE: 1" = 10'

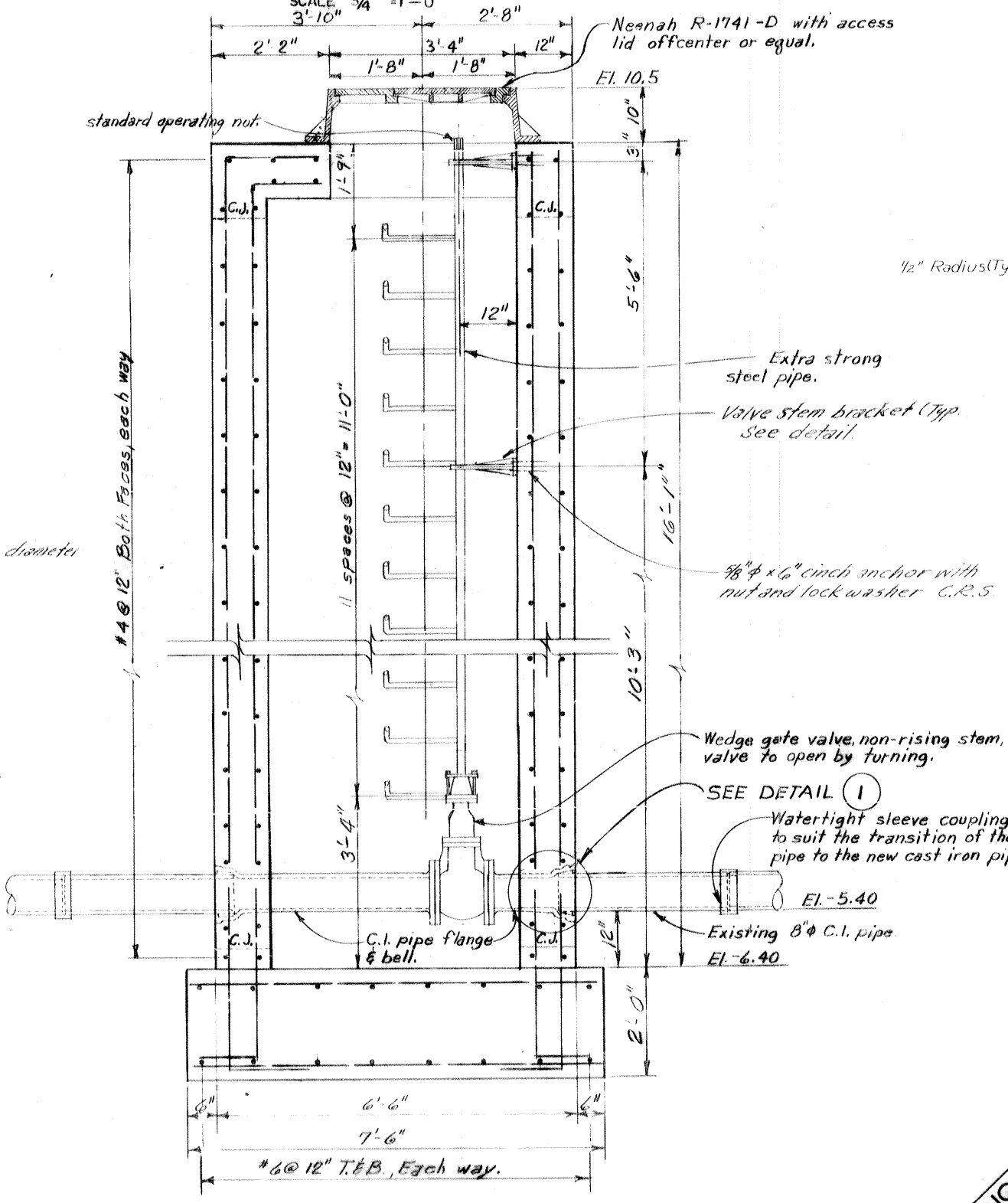


SECTION AT STA. 63+13.15 B/L
SCALE: 1" = 10'

Note: Excavation shall not be closer than 10'-6" from nearest rail.

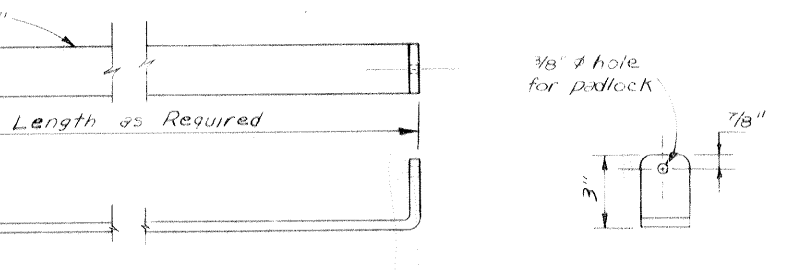
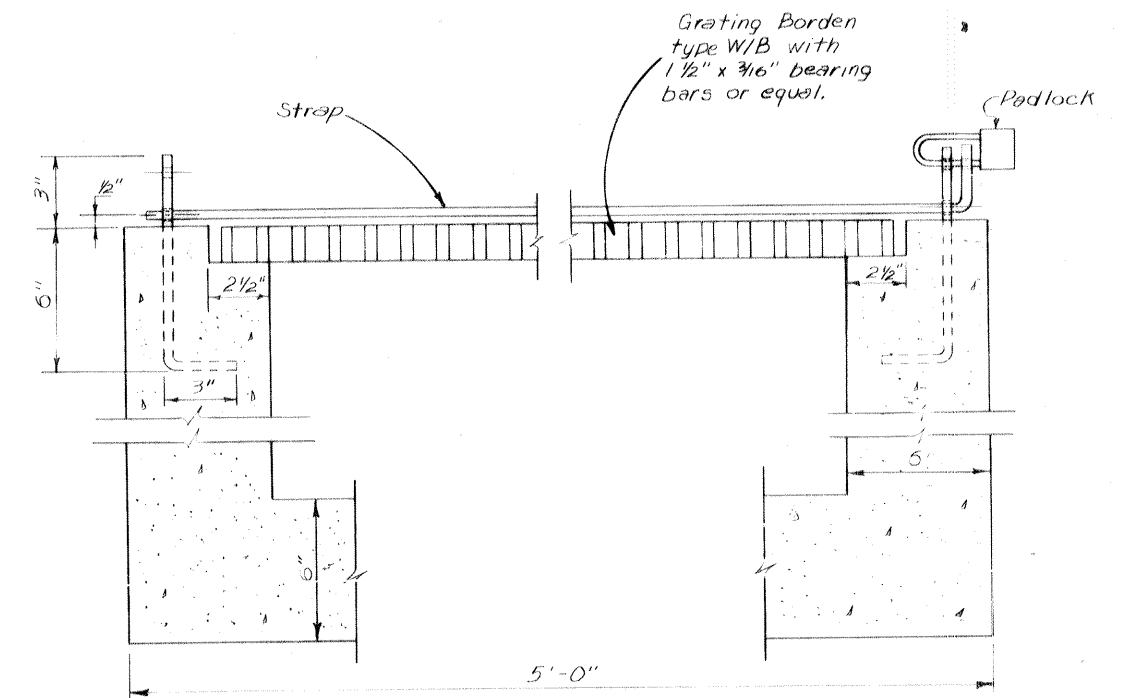
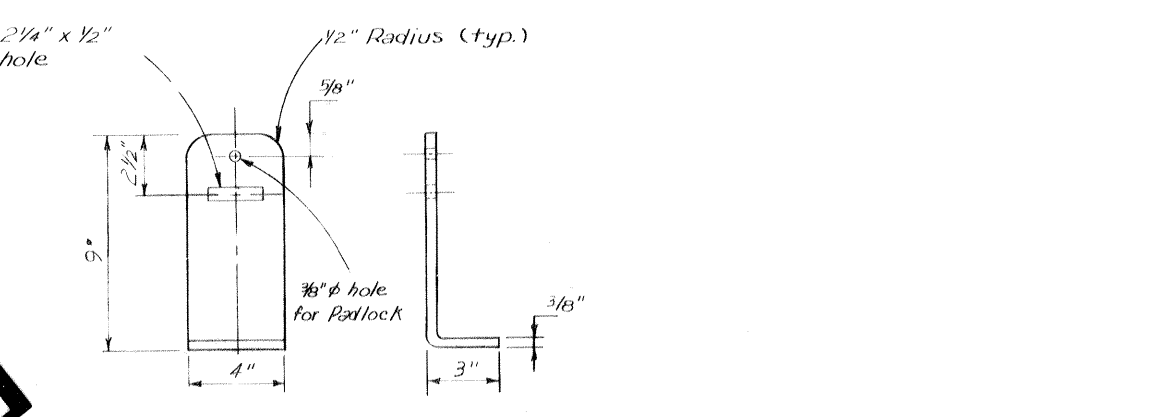


PLAN AT EL. 6.5
SCALE: 3/4" = 1'-0"



SECTION (A) VALVE MANHOLE
SCALE: 3/4" = 1'-0"

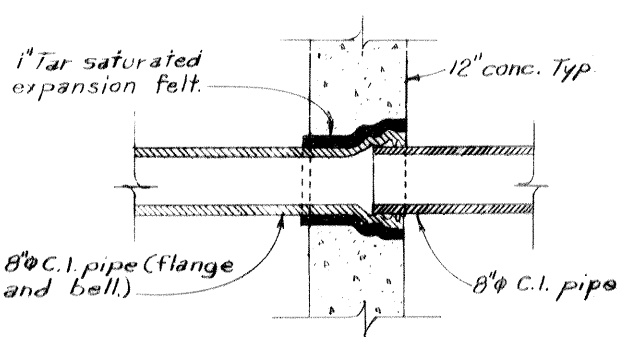
Safety is a Part of Your Contract



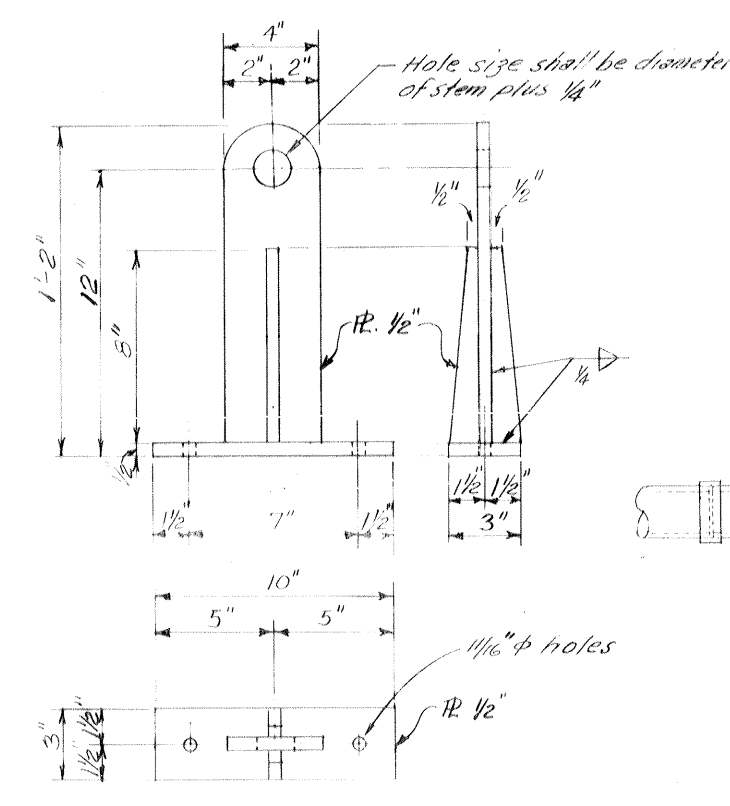
STRAP

DETAIL
SCALE: 3" = 1'-0"

FOR GENERAL NOTES, SEE DWG. 15.



DETAIL (1)
SCALE: 1" = 1'-0"



VALVE STEM BRACKET
SCALE: 3" = 1'-0"

NOTE: DRAWING REDUCED TO ONE HALF SCALE

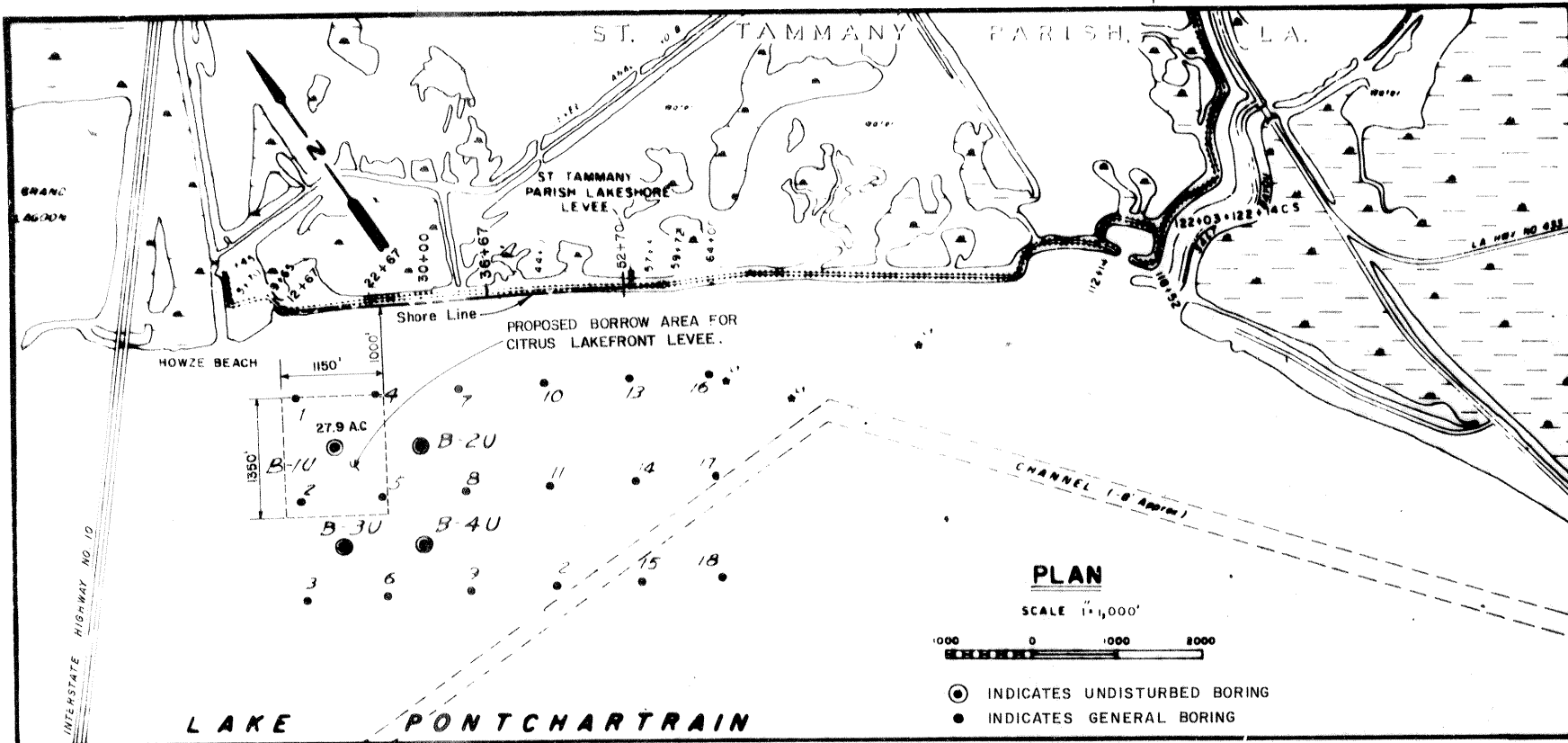
REVISION	DATE	DESCRIPTION	BY

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

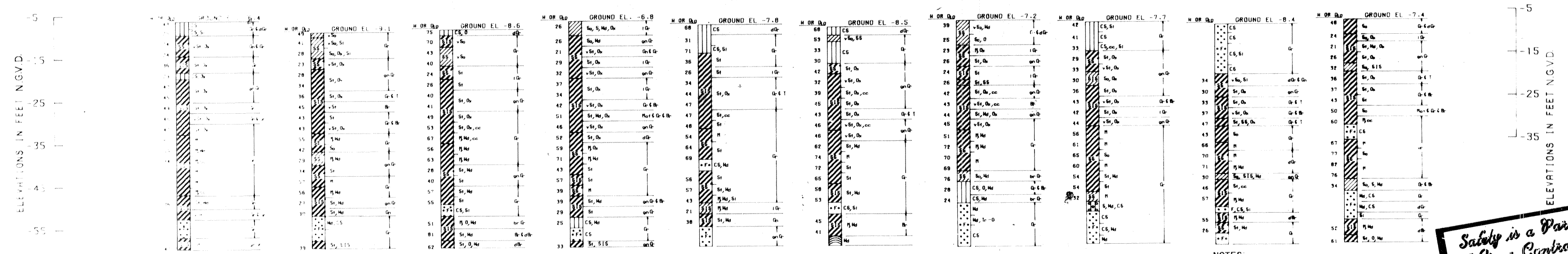
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN BARRIER PLAN
CITRUS LAKEFRONT LEVEE
IHNC TO PARIS ROAD
ORLEANS PARISH, LOUISIANA

**SPECIAL DRAINAGE DETAILS
PLANS ELEVATIONS AND SECTIONS**

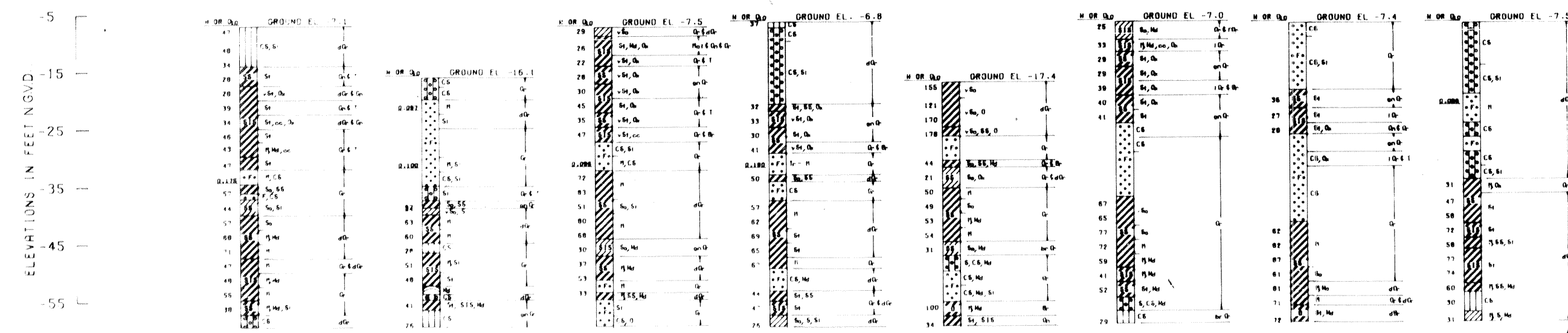
DESIGNED: T.S.T.	D.W.N. D.J.B.	CHECKED: T.S.T.	DATE: AUG. 1954	SCALE: AS SHOWN	FILE NO: H-8-28076
SUBMITTED: <i>[Signature]</i>			SPEC. NO: DACW29-79-B-0254	DWG: 16	OF 22



BORING NO. 1 BORING NO. 2 BORING NO. 3 BORING NO. 4 BORING NO. 5 BORING NO. 6 BORING NO. 7 BORING NO. 8 BORING NO. 9 BORING NO. 10
 STA. 12+67-2250 FT. RT. OF B/LSTA. 12+67-3500 FT. RT. OF B/LSTA. 22+67-1000 FT. RT. OF B/LSTA. 22+67-2250 FT. RT. OF B/LSTA. 22+67-3500 FT. RT. OF B/LSTA. 32+67-1000 FT. RT. OF B/LSTA. 32+67-2250 FT. RT. OF B/LSTA. 32+67-3500 FT. RT. OF B/LSTA. 42+67-1000 FT. RT. OF B/LSTA. 42+67-2250 FT. RT. OF B/LSTA. 42+67-3500 FT. RT. OF B/LSTA.
 WATER SURFACE = 0.1 N.G.V.D. WATER SURFACE = 0.4 N.G.V.D. WATER SURFACE = 0.4 N.G.V.D. WATER SURFACE = 0.4 N.G.V.D. WATER SURFACE = 0.4 N.G.V.D. WATER SURFACE = 0.1 N.G.V.D. WATER SURFACE = 0.5 N.G.V.D. WATER SURFACE = 0.1 N.G.V.D. WATER SURFACE = 0.5 N.G.V.D. WATER SURFACE = 0.5 N.G.V.D.



BORING NO. 11 BORING NO. 12 BORING NO. 13 BORING NO. 14 BORING NO. 15 BORING NO. 16 BORING NO. 17 BORING NO. 18
 STA. 42+67-3500 FT. RT. OF B/LSTA. 52+67-1000 FT. RT. OF B/LSTA. 52+67-2250 FT. RT. OF B/LSTA. 52+67-3500 FT. RT. OF B/LSTA. 62+67-1000 FT. RT. OF B/LSTA. 62+67-2250 FT. RT. OF B/LSTA. 62+67-3500 FT. RT. OF B/LSTA.
 WATER SURFACE = 0.5 N.G.V.D. WATER SURFACE = 0.6 N.G.V.D. WATER SURFACE = 0.7 N.G.V.D. WATER SURFACE = 0.4 N.G.V.D. WATER SURFACE = 0.4 N.G.V.D. WATER SURFACE = 0.7 N.G.V.D. WATER SURFACE = 0.7 N.G.V.D. WATER SURFACE = 0.7 N.G.V.D.



NOTES:
 WATER CONTENTS SHOWN ARE BASED ON WEIGHT OF OVEN DRY SOILS.
 GENERAL TYPE SOIL SAMPLES TAKEN WITH A 1 7/8" I.D. CORE SAMPLER
 FOR GENERAL NOTES, SEE DWG. NO. 2
 MATERIAL IS AVAILABLE IN NORTH SHORE BORROW AREA TO ELEVATION -20.0 FEET. EXCAVATE BORROW SLOPES TO 1V ON 3H.

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NOTE: DRAWING REDUCED TO ONE HALF SCALE

LEGEND

- GENERAL TYPE BORING
- UNDISTURBED BORING

REVISION	DATE	DESCRIPTION	BY

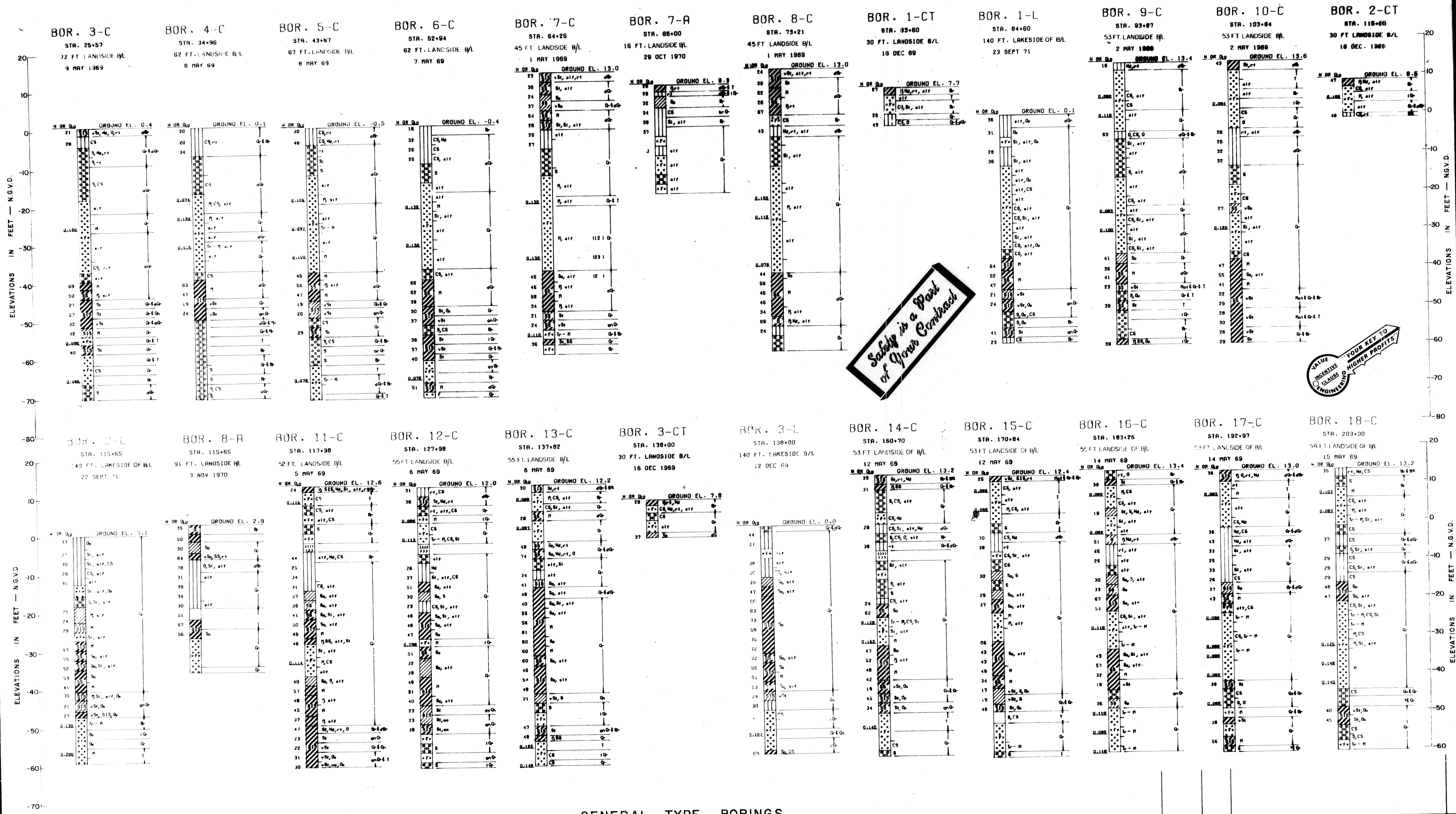
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
 CORPS OF ENGINEERS
 NEW ORLEANS, LA.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
 LAKE PONTCHARTRAIN BARRIER LEVEE
 CITRUS LAKEFRONT LEVEE
 IHNC TO PARIS ROAD
 ORLEANS PARISH, LOUISIANA

SOIL BORING LOGS-HOWZE BEACH BORROW

DESIGNED	D.D.S.	DRAWN	C.C.P.	CHECKED	R.P.L.	DATE	AUG. 1979	SCALE	AS SHOWN	FILE NO.	H-8-28076
SUBMITTED						SPEC. NO.	DAW 29-73-B-0254	DWG.	17	OF	22

VALUE ENGINEERING CLASS OF HIGHER PROFITS



GENERAL TYPE BORINGS

- NOTE:
1. For general notes, see Dwg. No. 2
 2. Water contents are based on weight of oven dry soils
 3. General type soil samples taken with a 1 7/8" I.D. core sampler

NOTE: DRAWING REDUCED TO ONE HALF SCALE

REVISION	DATE	DESCRIPTION	BY

U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN BARRIER PLAN
**CITRUS LAKEFRONT LEVEE
IHNC TO PARIS ROAD**
ORLEANS PARISH, LOUISIANA

SOIL BORINGS

DESIGNED D.D.S.	DRAWN C.C.P.	CHECKED R.P.L.	DATE AUG. 1979	SCALE AS SHOWN	FILE NO. H-8-28076
SPECIAL NO. DACW29-79-B-0254			DATE 18	PAGE 22	

BOR. 19-C
 STA. 213+00
 54 FT. LANDSIDE OF B/L
 15 MAY 69

BOR. 4-CT
 STA. 217+00
 30 FT. LANDSIDE OF B/L
 18 DEC 69

BOR. 4-L
 STA. 217+00
 550 FT. LANDSIDE OF B/L
 15 DEC 69

BOR. 20-C
 STA. 222+06
 54 FT. LANDSIDE OF B/L
 16 MAY 69

BOR. 21-C
 STA. 232+15
 54 FT. LANDSIDE OF B/L
 19 MAY 69

BOR. 22-C
 STA. 243+03
 54 FT. LANDSIDE OF B/L
 19 MAY 69

BOR. 23-C
 STA. 252+01
 55 FT. LANDSIDE OF B/L
 20 MAY 69

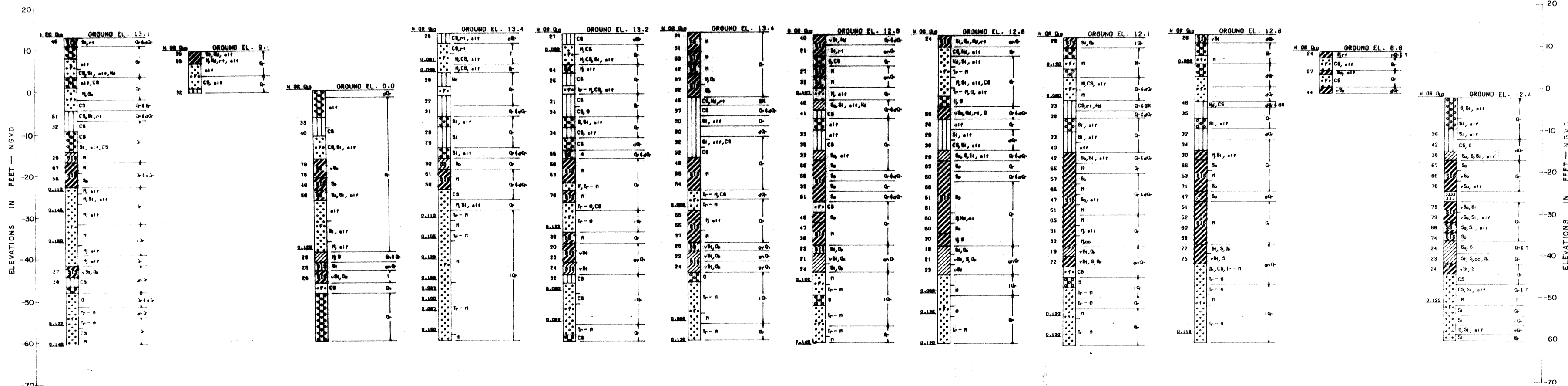
BOR. 24-C
 STA. 264+96
 56 FT. LANDSIDE OF B/L
 21 MAY 69

BOR. 25-C
 STA. 272+23
 56 FT. LANDSIDE OF B/L
 21 MAY 69

BOR. 26-C
 STA. 282+05
 54 FT. LANDSIDE OF B/L
 22 MAY 69

BOR. 5-CT
 STA. 205+00
 28 FT. LANDSIDE OF B/L
 16 DEC 69

BOR. 5-L
 STA. 205+00
 500 FT. LANDSIDE OF B/L
 29 DEC 69



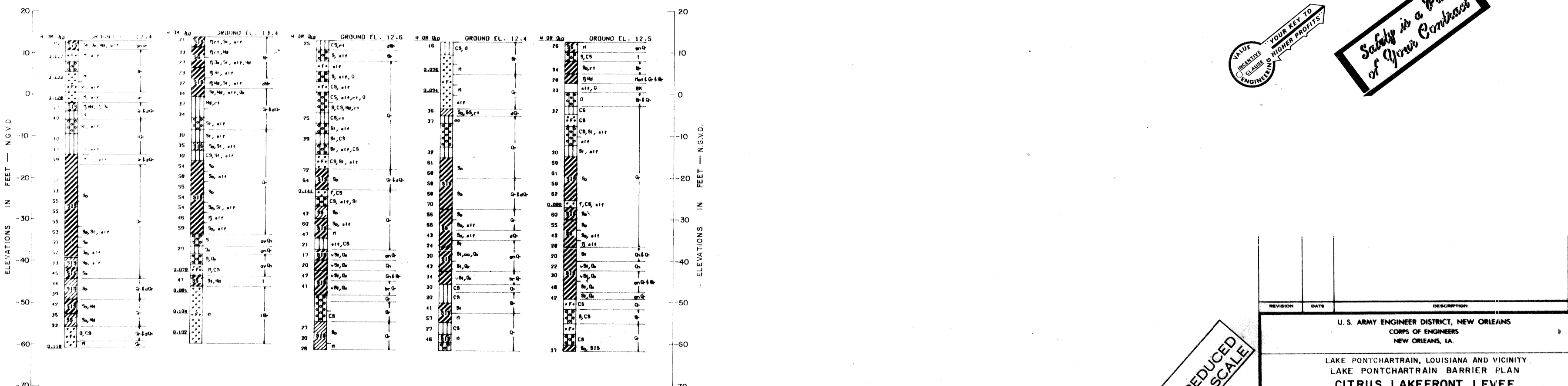
BOR. 27-C
 STA. 293+12
 53 FT. LANDSIDE OF B/L
 22 MAY 69

BOR. 28-C
 STA. 304+41
 53 FT. LANDSIDE OF B/L
 23 MAY 69

BOR. 29-C
 STA. 314+48
 55 FT. LANDSIDE OF B/L
 23 MAY 69

BOR. 30-C
 STA. 324+04
 53 FT. LANDSIDE OF B/L
 26 MAY 69

BOR. 31-C
 STA. 330+72
 53 FT. LANDSIDE OF B/L
 27 MAY 69



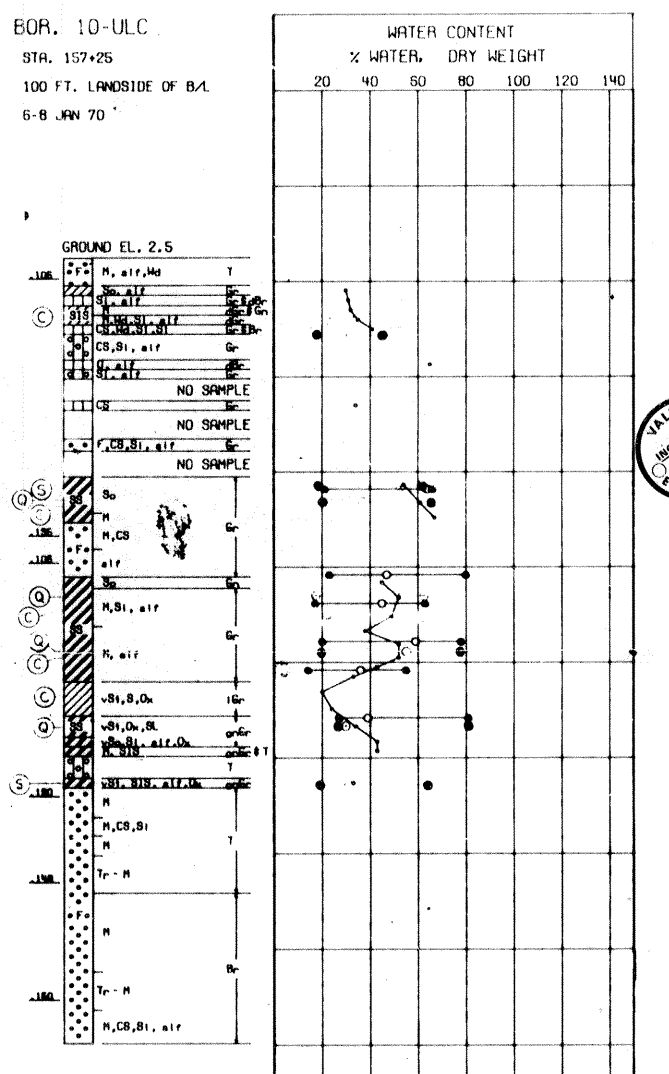
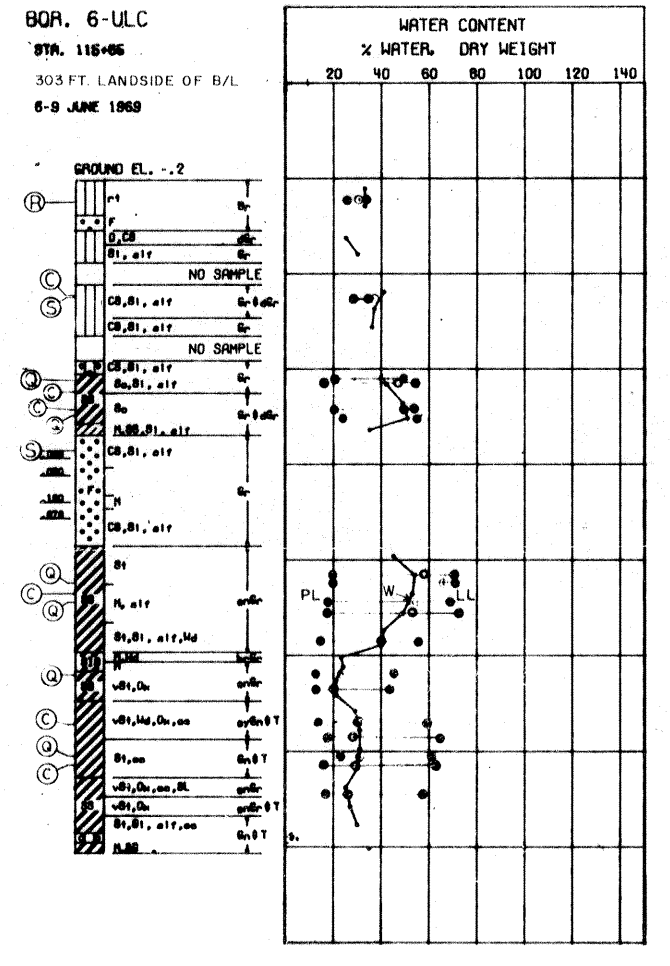
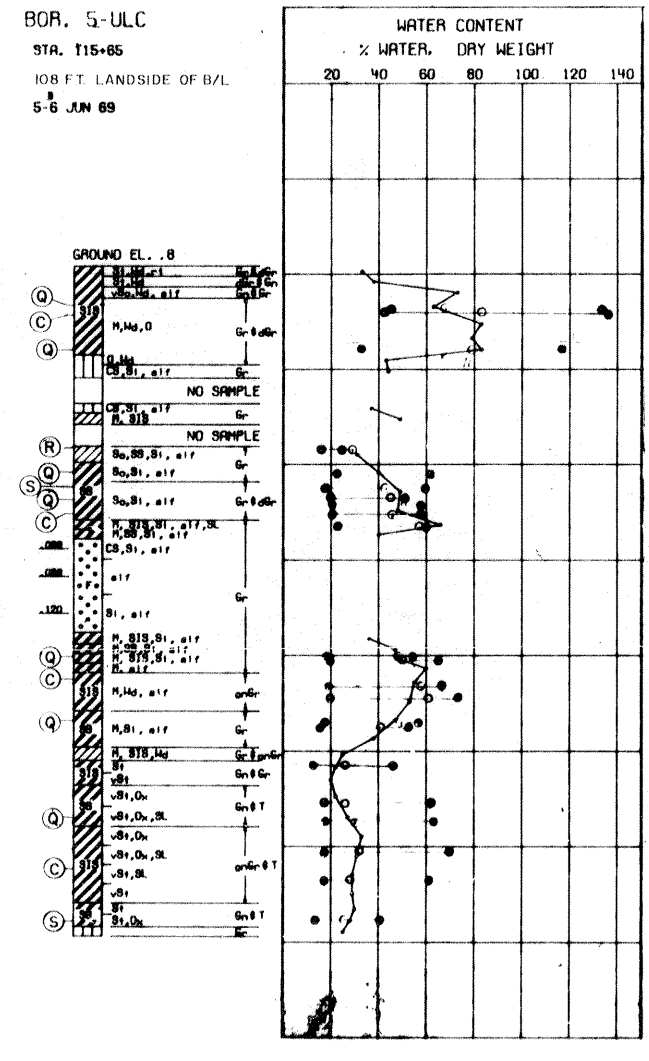
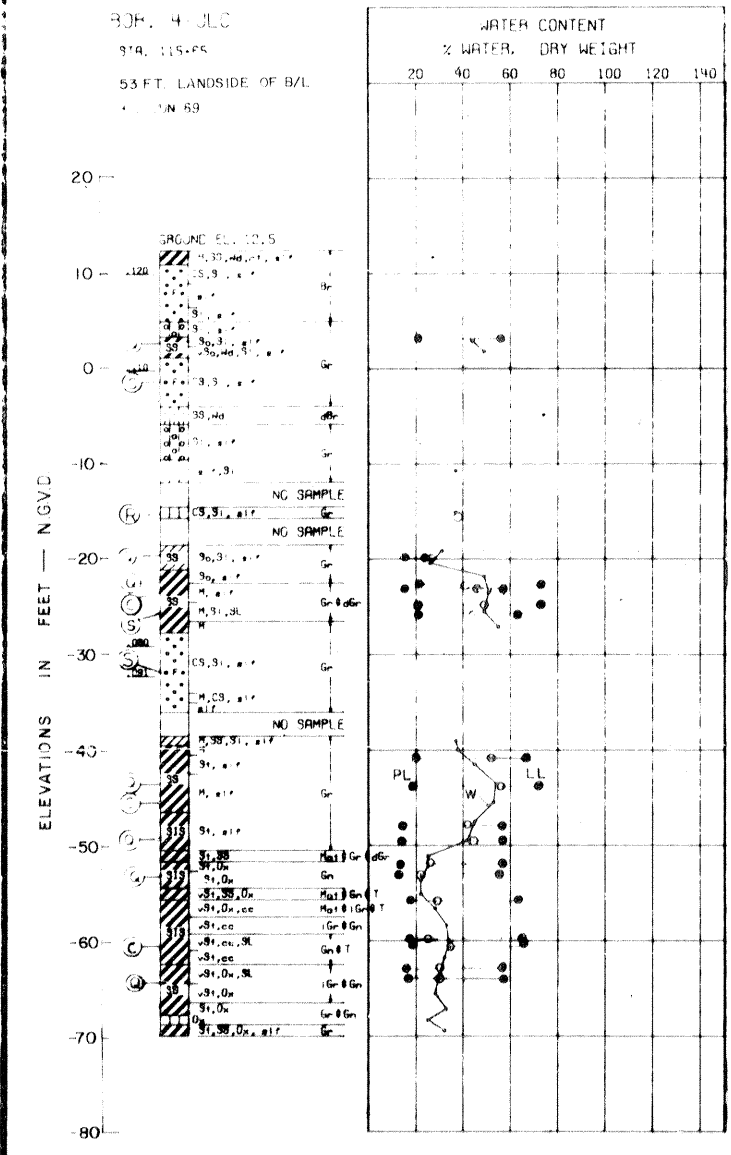
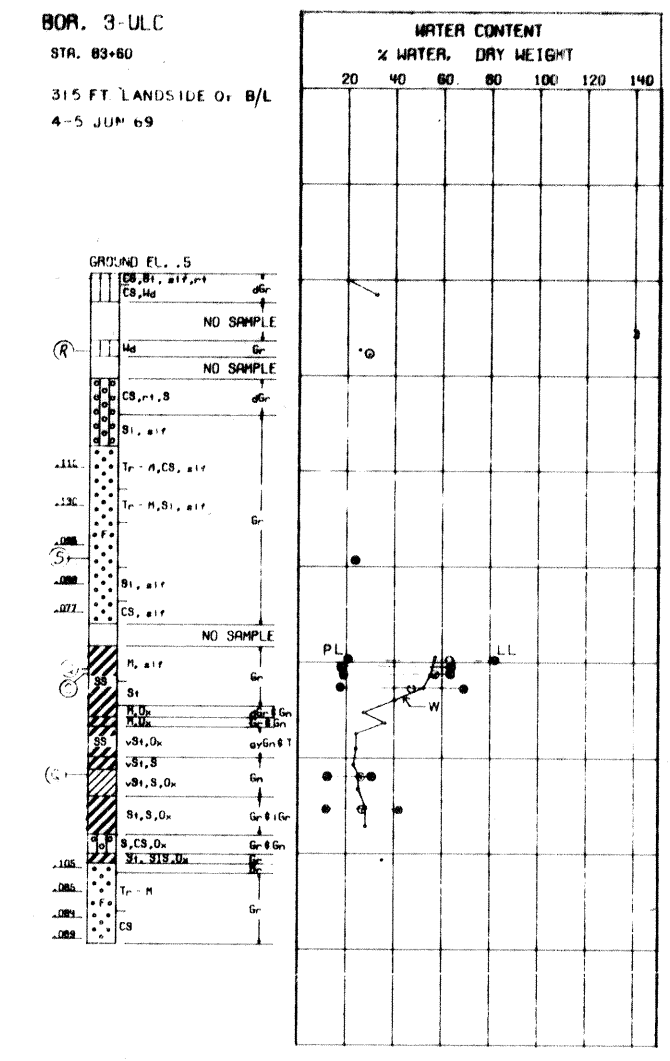
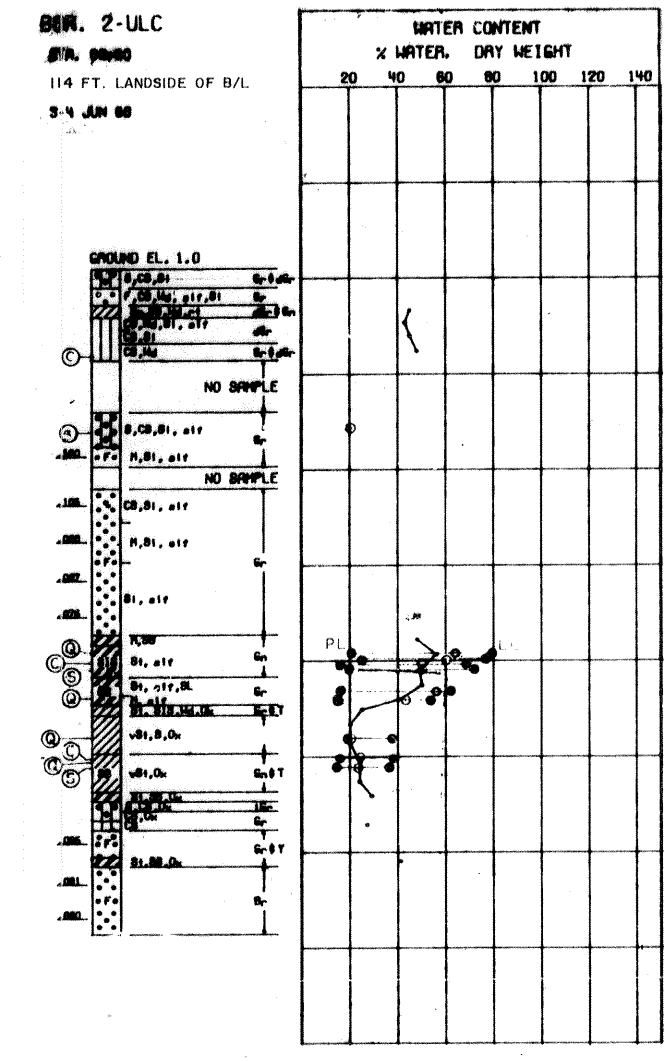
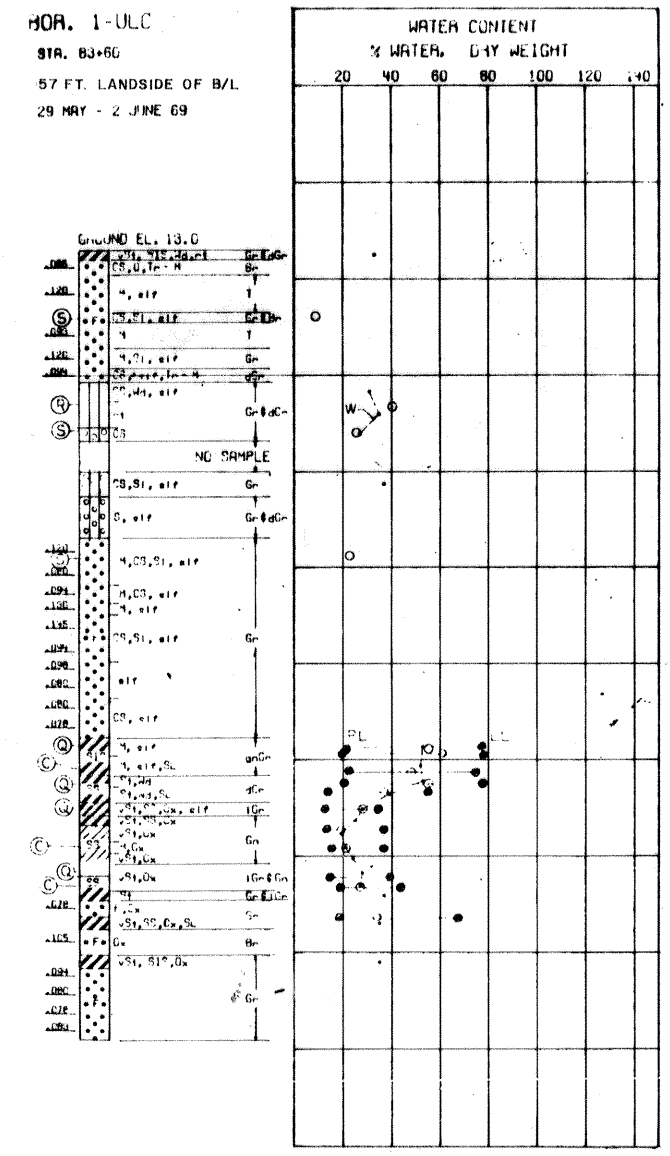
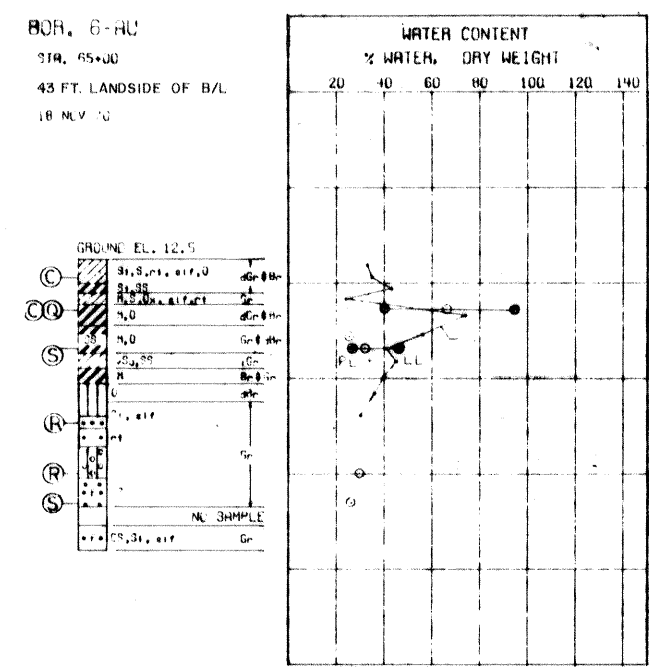
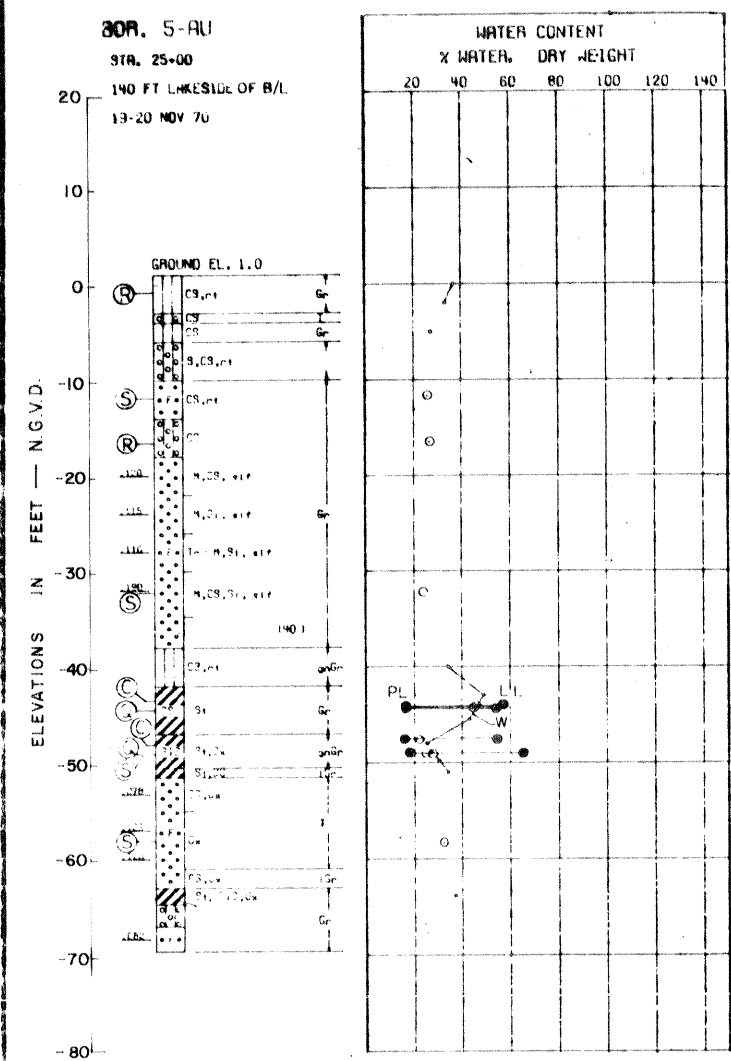
NOTE
 1. For general notes, see dwg. 2.
 2. Water contents shown are based on weight of oven dry soils.
 3. General type soil samples taken with a 1 7/8" I.D. core sample.



NOTE: DRAWING REDUCED TO ONE HALF SCALE

GENERAL TYPE BORINGS

REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS ROAD ORLEANS PARISH, LOUISIANA SOIL BORINGS			
DESIGNED:	DRAWN:	CHECKED:	DATE:
D.D.S.	C.C.P.	R.P.L.	AUG 1979
SCALE:	FILE NO.:		
AS SHOWN	H-8-28076		
DATE:	BY:		
DACW29-79-B-0254	19	22	



- NOTE**
1. For general notes, see dwg. 2.
 2. Water contents shown are based on weight of oven dry soils.
 3. Undisturbed samples taken with a 5" diameter steel tube piston type sampler.

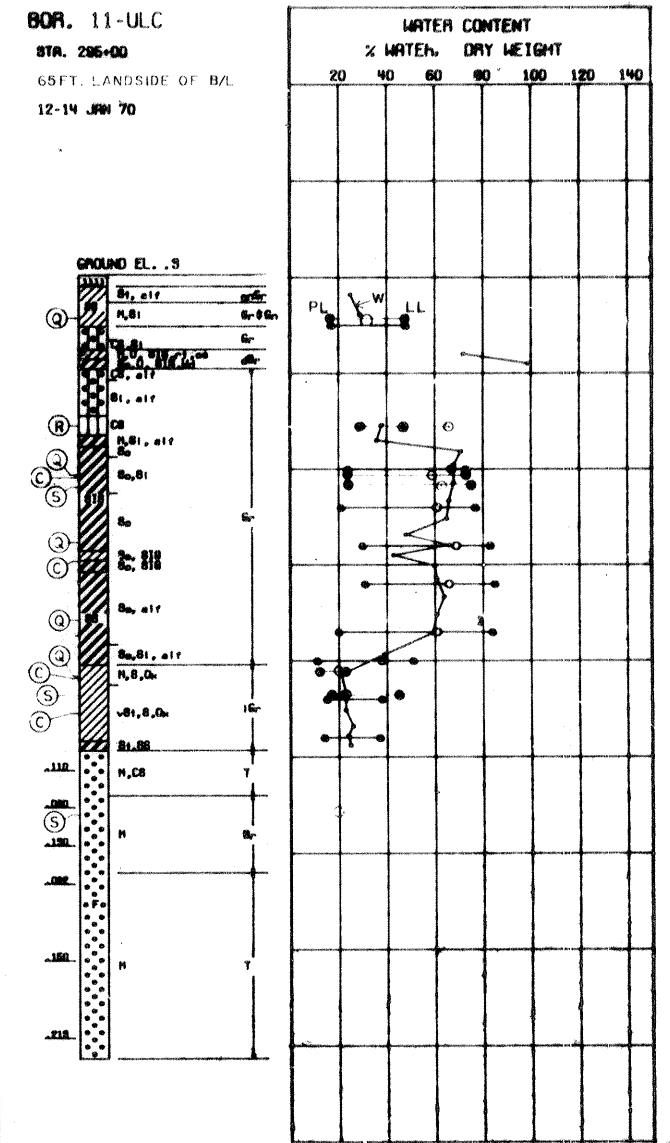
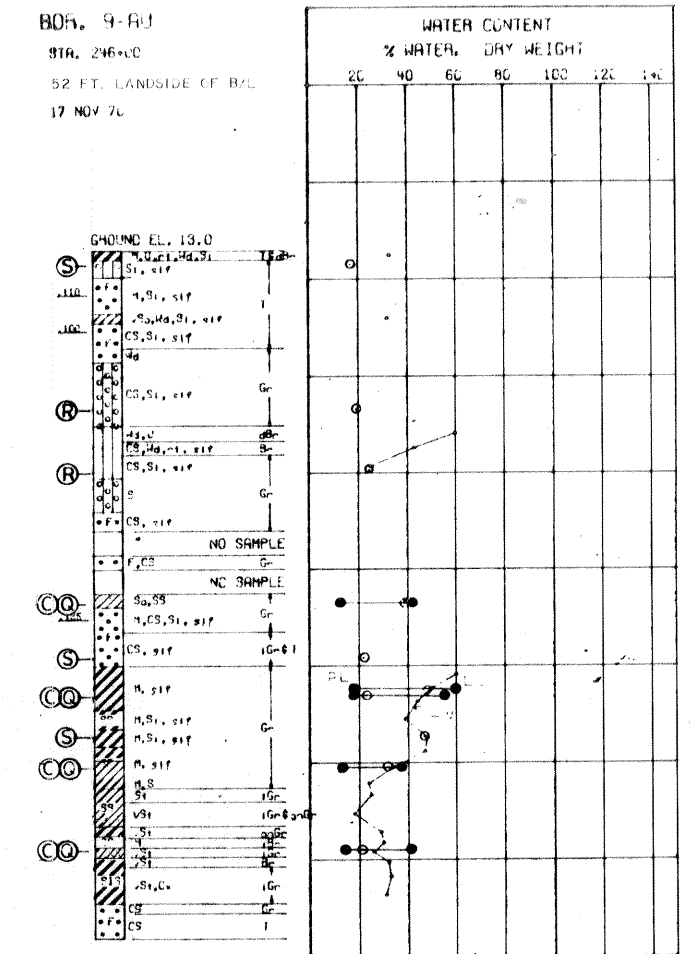
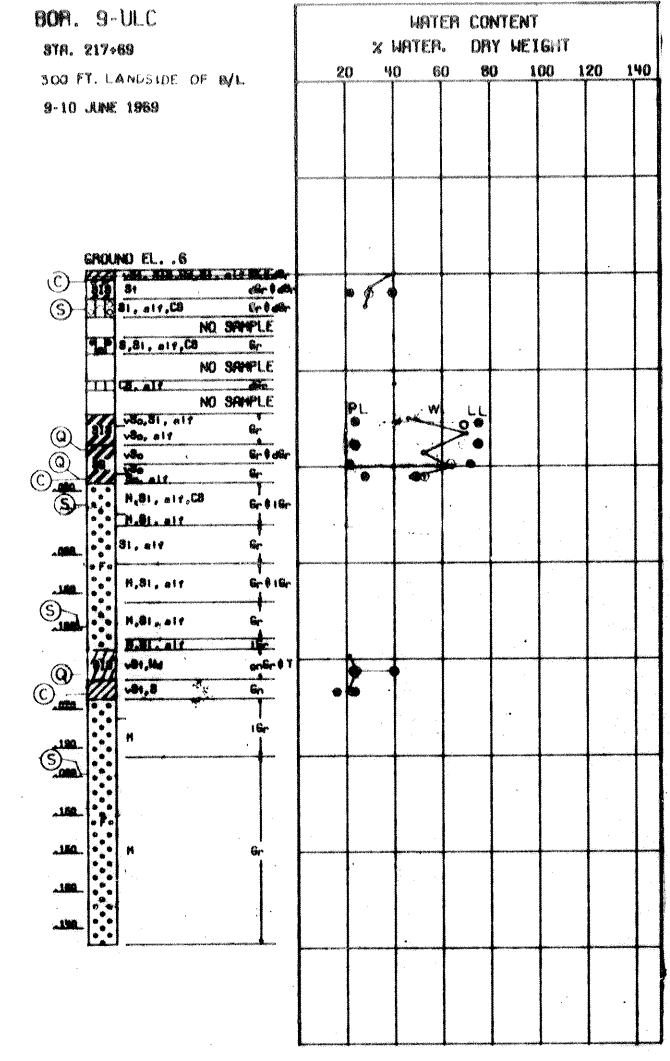
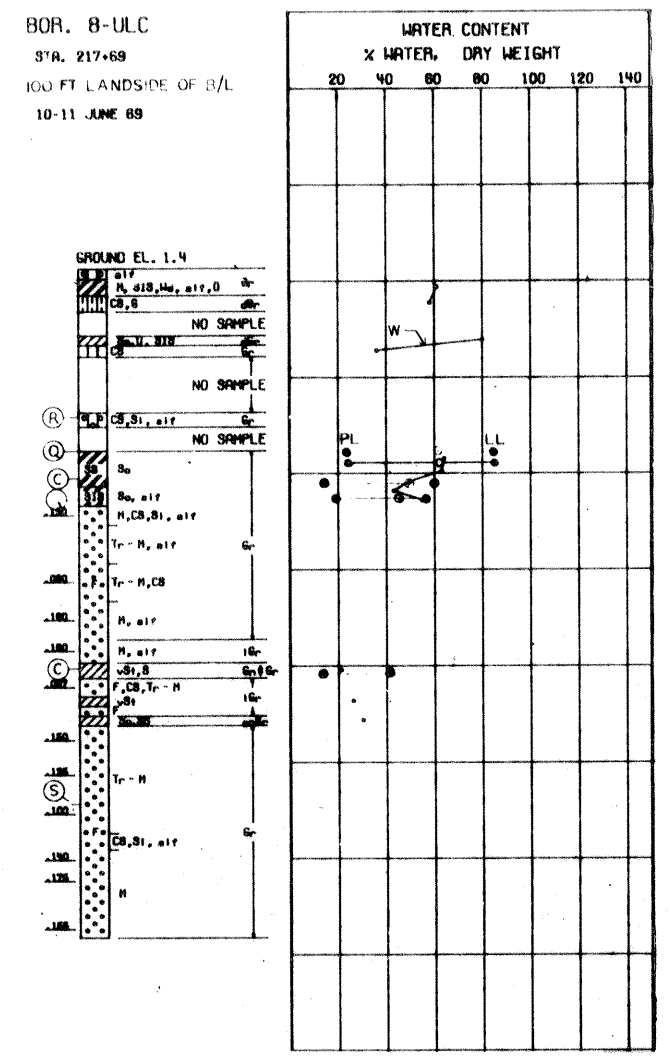
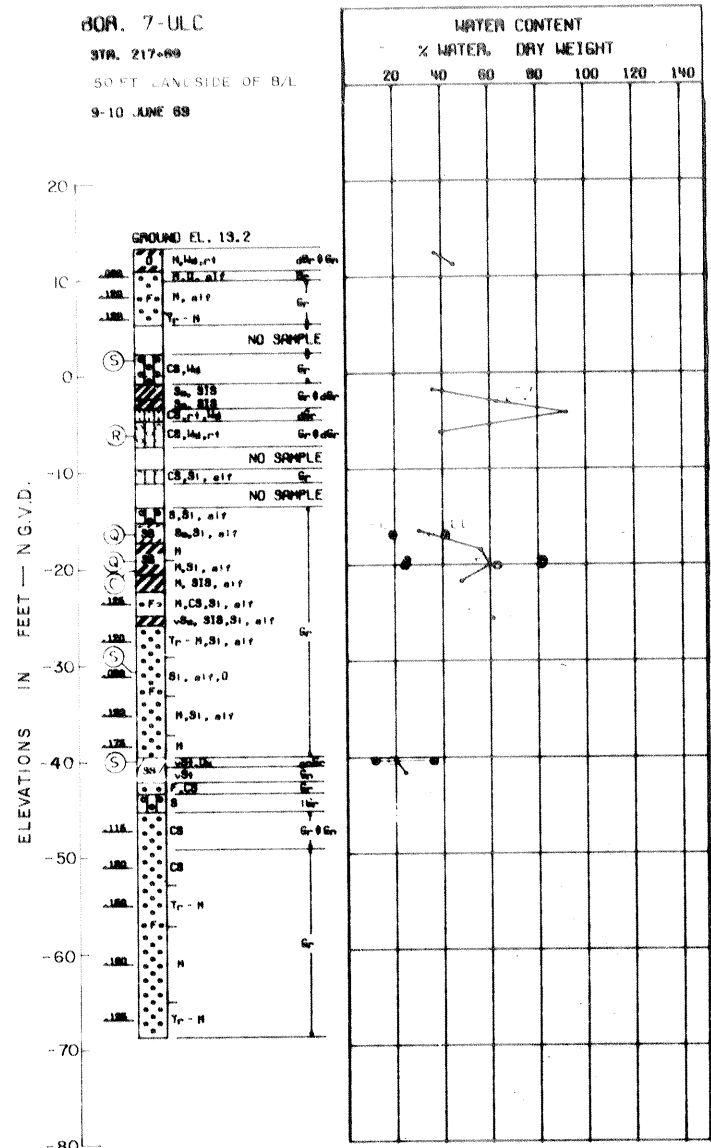
YOUR KEY TO HIGHER PROFITS

Safety is a Part of Your Contract

NOTE: DRAWING REDUCED TO ONE HALF SCALE

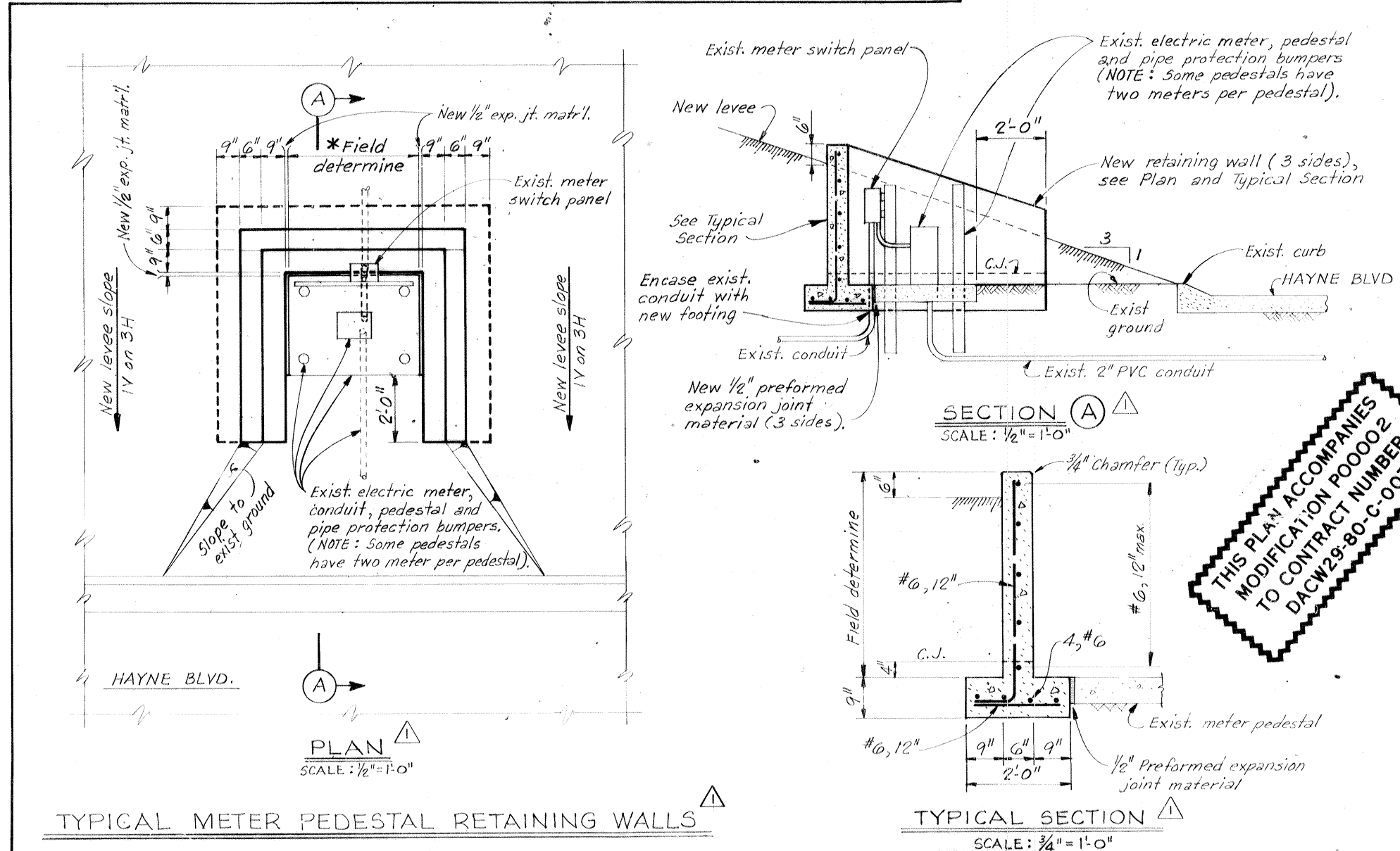
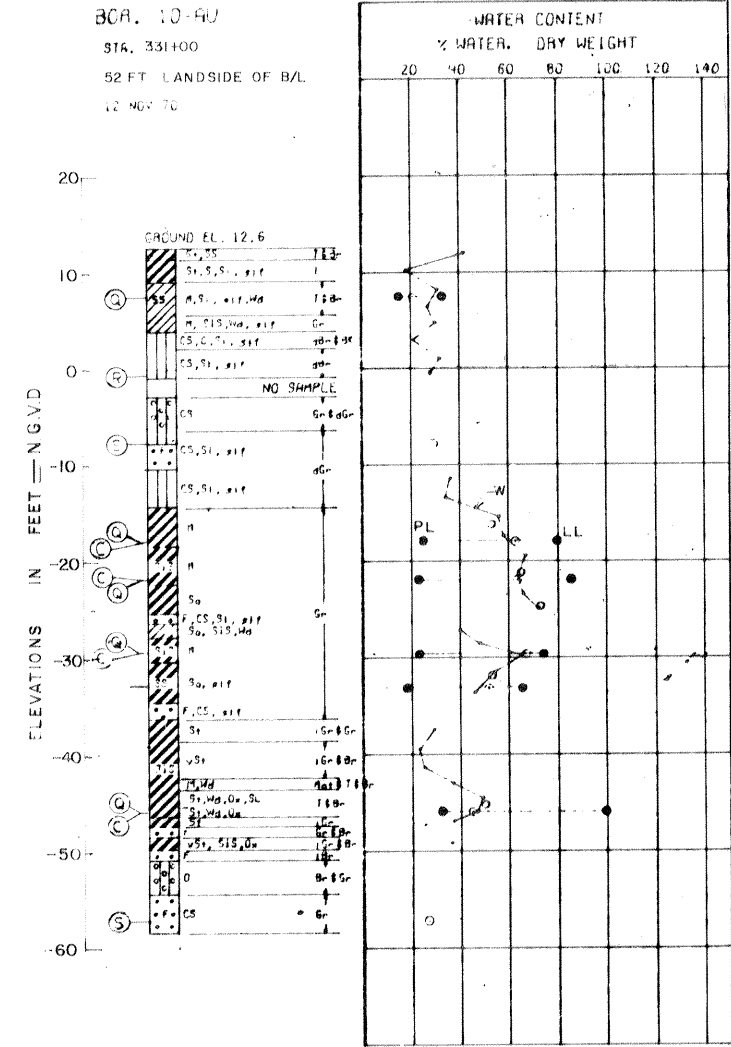
UNDISTURBED TYPE BORINGS

REVISION	DATE	DESCRIPTION	BY		
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA					
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNC TO PARIS LEVEE ORLEANS PARISH, LOUISIANA					
SOIL BORINGS					
DESIGNED	DRAWN	CHECKED	DATE	SCALE	FILE NO.
D.D.S.	C.C.P.	R.P.L.	AUG 1979	AS SHOWN	H-8-28076
SUBMITTED	SPEC NO.		DATE	SCALE	FILE NO.
	DACW29-79-B-0254		JUN 20	OF 22	



UNDISTURBED TYPE BORINGS

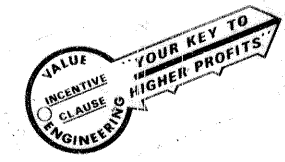
NOTE :
 1. The number and locations of meter pedestals requiring retaining walls shall be as determined by the Contracting Officer.
 2. The Contractor shall remove meter pedestals at locations where electric meters are disconnected, the number and locations shall be as determined by the Contracting Officer. All materials removed shall become the property of the Contractor and shall be removed from the job site.
 3. The Contractor shall backfill to provide a continuous levee slope. Compaction of levee fill shall be as per contract specifications.



THIS PLAN ACCOMPANIES MODIFICATION P0002 TO CONTRACT NUMBER DACW29-80-C-0035

NOTE

- For general notes, see dwg. 2.
- Water contents shown are based on weight of oven dry soils.
- Undisturbed samples taken with a 5" diameter steel tube piston type sampler.



Safety is a Part of Your Contract

NOTE: DRAWING REDUCED TO ONE HALF SCALE

REVISION	DATE	DESCRIPTION	BY
11-5-80		Added retaining wall details & changed dwg title; Mod #2	J.A.R.
U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LA.			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY LAKE PONTCHARTRAIN BARRIER PLAN CITRUS LAKEFRONT LEVEE IHNIC TO PARIS ROAD ORLEANS PARISH, LOUISIANA SOIL BORINGS AND RETAINING WALLS			
DESIGNED	DRAWN	CHECKED	DATE
D.D.S.	C.C.P.	R.P.L.	AUG 1979
SCALE		FILE NO.	
AS SHOWN		H-8-28076	
SUBMITTED		SPEC. NO.	
David R. Lee		DACW29-79-B-0254	21 of 22

UNIFIED SOIL CLASSIFICATION				
MAJOR DIVISION	TYPE	LETTER SYMBOL	SYM BOL	TYPICAL NAMES
COARSE - GRAINED SOILS More than half of material is larger than No. 200 sieve size	GRAVELS More than half of material is larger than No. 4 sieve size	CLEAN GRAVEL (Little or No Fines)	GW	GRAVEL, Well Graded, gravel-sand mixtures, little or no fines
		GRAVEL WITH FINES (Appreciable Amount of Fines)	GP	GRAVEL, Poorly Graded, gravel-sand mixtures, little or no fines
		CLEAN SAND (Little or No Fines)	SW	SAND, Well - Graded, gravelly sands
		SANDS WITH FINES (Appreciable Amount of Fines)	SP	SAND, Poorly - Graded, gravelly sands
		SANDS WITH FINES (Appreciable Amount of Fines)	SM	SILTY SAND, sand-silt mixtures
	SANDS More than half of material is larger than No. 4 sieve size	CLEAN SAND (Little or No Fines)	SW	SAND, Well - Graded, gravelly sands
		SANDS WITH FINES (Appreciable Amount of Fines)	SP	SAND, Poorly - Graded, gravelly sands
		SANDS WITH FINES (Appreciable Amount of Fines)	SM	SILTY SAND, sand-silt mixtures
		SANDS WITH FINES (Appreciable Amount of Fines)	SC	CLAYEY SAND, sand-clay mixtures
		SANDS WITH FINES (Appreciable Amount of Fines)	SC	CLAYEY SAND, sand-clay mixtures
FINE - GRAINED SOILS More than half the material is smaller than No. 200 sieve size	SILTS AND CLAYS (Liquid Limit < 50)	ML	SILT & very fine sand, silty or clayey fine sand or clayey silt with slight plasticity	
		CL	LEAN CLAY, Sandy Clay, Silty Clay, of low to medium plasticity	
		OL	ORGANIC SILTS and organic silty clays of low plasticity	
	SILTS AND CLAYS (Liquid Limit > 50)	MH	SILT, fine sandy or silty soil with high plasticity	
		CH	FAT CLAY, inorganic clay of high plasticity	
		OH	ORGANIC CLAYS of medium to high plasticity, organic silts	
		OH	ORGANIC CLAYS of medium to high plasticity, organic silts	
HIGHLY ORGANIC SOILS	Pt	PEAT, and other highly organic soil		
WOOD	Wd	WOOD		
SHELLS	SI	SHELLS		
NO SAMPLE				

NOTE: Soils possessing characteristics of two groups are designated by combinations of group symbols

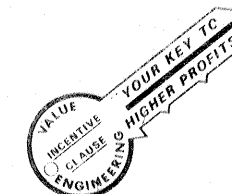
DESCRIPTIVE SYMBOLS						
COLOR		CONSISTENCY FOR COHESIVE SOILS			MODIFICATIONS	
COLOR	SYMBOL	CONSISTENCY	COHESION IN LBS./SQ. FT. FROM UNCONFINED COMPRESSION TEST	SYMBOL	MODIFICATION	SYMBOL
TAN	T				Traces	Tr-
YELLOW	Y				Fine	F
RED	R	VERY SOFT	< 250	vSo	Medium	M
BLACK	BK	SOFT	250 - 500	So	Coarse	C
GRAY	Gr	MEDIUM	500 - 1000	M	Concretions	cc
LIGHT GRAY	lGr	STIFF	1000 - 2000	St	Rootlets	rt
DARK GRAY	dGr	VERY STIFF	2000 - 4000	vSt	Lignite fragments	lg
BROWN	Br	HARD	> 4000	H	Shale fragments	sh
LIGHT BROWN	lBr				Sandstone fragments	sds
DARK BROWN	dBr				Shell fragments	sif
BROWNISH - GRAY	br Gr				Organic matter	O
GRAYISH - BROWN	gy Br				Clay strata or lenses	CS
GREENISH - GRAY	gn Gr				Silt strata or lenses	SIS
GRAYISH - GREEN	gy Gn				Sand strata or lenses	SS
GREEN	Gn				Sandy	S
BLUE	Bl				Gravelly	G
BLUE - GREEN	Bl Gn				Boulders	B
WHITE	Wh				Slickensides	SL
MOTTLED	Mot				Wood	Wd
					Oxidized	Ox

PLASTICITY CHART
For classification of fine-grained soils

NOTES:	
FIGURES TO LEFT OF BORING UNDER COLUMN "W OR D ₁₀ "	
Are natural water contents in percent dry weight	
When underlined denotes D ₁₀ size in mm*	
FIGURES TO LEFT OF BORING UNDER COLUMNS "LL" AND "PL"	
Are liquid and plastic limits, respectively	
SYMBOLS TO LEFT OF BORING	
▽ Ground-water surface and date observed	
⊙ Denotes location of consolidation test**	
⊙ Denotes location of consolidated - drained direct shear test**	
⊙ Denotes location of consolidated - undrained triaxial compression test**	
⊙ Denotes location of unconsolidated - undrained triaxial compression test**	
⊙ Denotes location of sample subjected to consolidation test and each of the above three types of shear tests**	
FW Denotes free water encountered in boring or sample	
FIGURES TO RIGHT OF BORING	
Are values of cohesion in lbs./sq. ft. from unconfined compression tests	
In parenthesis are driving resistances in blows per foot determined with a standard split spoon sampler (1 3/8" I.D., 2" O.D.) and a 140 lb. driving hammer with a 30" drop	
Where underlined with a solid line denotes laboratory permeability in centimeters per second of undisturbed sample	
Where underlined with a dashed line denotes laboratory permeability in centimeters per second of sample remoulded to the estimated natural void ratio	
*The D ₁₀ size of a soil is the grain diameter in millimeters of which 10% of the soil is finer, and 90% coarser than D ₁₀	
**Results of these tests are available for inspection in the U.S. Army Engineer District Office, if these symbols appear beside the boring logs on the drawings	

TYPICAL NOTES:

- While the borings are representative of subsurface conditions at their respective locations and for their respective vertical reaches, local variations characteristic of the subsurface materials of the region are anticipated and, if encountered, such variations will not be considered as differing materially within the purview of clause 4 of the contract.
- Ground-water elevations shown on the boring logs represents ground-water surfaces encountered on the dates shown. Absence of water surface data on certain borings implies that no ground-water data is available, but does not necessarily mean that ground water will not be encountered at the locations or within the vertical reaches of these borings.
- Consistency of cohesive soils shown on the boring logs is based on driller's log and visual examination and is approximate, except within those vertical reaches of the borings where shear strengths from unconfined compression tests are shown.
- General type borings are made with a 1-7/8" I.D. core barrel sampler in cohesive material and with a 1-3/8" I.D. 2" O.D. splitspoon sampler in granular material.
- Undisturbed borings are made with a 5" diameter steel tube piston type sample in cohesive material and either a 5" diameter steel tube piston type sampler or 1-3/8" I.D. 2" O.D. splitspoon sampler in granular material.



Safety is a Part of Your Contract

NOTE: DRAWING REDUCED TO ONE HALF SCALE

REVISION	DATE	DESCRIPTION	BY

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LA.

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY
LAKE PONTCHARTRAIN BARRIER PLAN
CITRUS LAKEFRONT LEVEE
IHNC TO PARIS ROAD
ORLEANS PARISH, LOUISIANA

SOIL BORING LEGEND

DESIGNED	DRAWN	CHECKED	DATE	SCALE	FILE NO.
D.D.S.	E.M.M.	R.P.L.	AUG. 1979	AS SHOWN	H-8-28076
SUBMITTED	APPROVED	ENGINEER	SPEC. NO.	DWG. NO.	
			DACW29-79-B-0254	22	22