

Contract No. DACW29-94-C-0079, Lake Pontchartrain, LA and Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Ave. to Leon C. Simon Blvd. Floodwall, Orleans Parish, LA

DATA IN SUPPORT OF FINAL QUANTITIES

**Item No. 7 Fertilizing, Seeding and Mulching**

This item was applied on all newly constructed embankments on the east and west sides of the canal in addition to all disturbed areas within the construction limits. West bank total includes staging and storage areas.

East Bank Total =  $\frac{169,087 \text{ SF}}{43,560}$  = 3.88 Acres

West Bank Total =  $\frac{241,419.4 \text{ SF}}{43,560}$  = 5.54 Acres

Total = 9.42 Acres

**Item No. 11 Piling, Steel Sheet, Type PZ-22**

These piling were driven between the following stations:

West Bank Area including collars:

a. From Sta. 70+47 to Sta. 84+54 W B/L:

Area Driven = 786 pcs x 1.804' x 21.75 ft = 30,840.28 SF

b. From Sta. 85+90 to Sta. 100+32 W B/L:

Area Driven = 803 pcs x 1.804' x 20.25 ft = 29,334.39 SF

c. From Sta. 100+32 to Sta. 100+56 W B/L:

Area Driven = 13 pcs x 1.804' x 26.25 ft = 615.61 SF

d. From Sta. 100+56 to Sta. 101+73 W B/L:

Area Driven = 65 pcs x 1.804' x 25.75 ft = 3,019.44 SF

e. From Sta. 101+73 to Sta. 119+63 W B/L:

Area Driven = 993 pcs x 1.804' x 21.75 ft = 38,962.34 SF

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Subtotal = 102,772.06 SF

**Item No. 11 Piling, Steel Sheet, Type PZ-22 (cont.)**

East Bank Area including collars:

- a. From Sta. 70+26 to Sta. 84+30 E B/L:  
Area Driven = 780 pcs x 1.804' x 24.75 ft = 30,604.86 SF
  - b. From Sta. 102+67 to Sta. 115+00 E B/L:  
Area Driven = 684 pcs x 1.804' x 24.75 ft = 30,539.92 SF
  - c. From Sta. 115+00 to Sta. 119+02 E B/L:  
Area Driven = 225 pcs x 1.804' x 26.75 ft = 10,857.83 SF
  - d. From Sta. 120+48 to Sta. 126+65 E B/L:  
Area Driven = 346 pcs x 1.804' x 20.25 ft = 12,639.73 SF
- Subtotal = 84,642.34 SF
- TOTAL = 187,414.40 SF

**Item No. 12 Piling, Steel Sheet, Type PSA-23**

These fabricated piling were placed at the following locations:

- a. Mirabeau Collar ----> 2.42 ft x 21.75 ft = 52.63 SF  
(Sta. 70+47 W B/L)
  - b. Filmore Collar ----> 3.53 ft x 21.75 ft = 76.78 SF  
(Sta. 85+56 W B/L)
  - c. Filmore Collar ----> 2.65 ft x 20.25 ft = 53.66 SF  
(Sta. 85+90 W B/L)
  - d. R.E. Lee Collar ----> 3.8 ft x 21.75 ft = 82.65 SF  
(Sta. 119+65 W B/L)
  - e. Mirabeau Collar ----> 4.82 ft x 21.75 ft = 104.84 SF  
(Sta. 70+26 E B/L)
  - f. Filmore Collar ----> 3.88 ft x 21.75 ft = 84.39 SF  
(Sta. 84+30 E B/L)
  - g. Pump Sta. Collar ---> 4.87 ft x 24.75 ft = 120.53 SF  
(Sta. 102.67 E B/L)
  - h. R.E. Lee Collar ----> 3.09 ft x 26.75 ft = 82.66 SF  
(Sta. 119+02 E B/L)
  - i. R.E. Lee Collar ----> 1.33 ft x 20.25 ft = 26.93 SF  
(Sta. 120+39 E B/L)
  - j. L.C. Simon Collar --> 1.70 ft x 20.25 ft = 34.42 SF  
(Sta. 126+69 E B/L)
- TOTAL = 719.49 SF

5 Dec 96

## MEMORANDUM THRU

Area Engineer, NOAO  
C/Const Div

ATTN: Contr Admin Br

FOR C/Engr Div

SUBJECT: Contract No. DACW29-94-C-0079, Narrative Completion Report, Lake Pontchartrain, Louisiana & Vicinity, High Level Plan, London Avenue Outfall Canal, Parallel Protection, Mirabeau Avenue to Leon C. Simon Boulevard Floodwall, Orleans Parish, Louisiana

1. The above mentioned contract was awarded to B&K Construction Company, Incorporated, 1905 Highway 59, Mandeville, Louisiana 70448 on 11 Jul 94 for the amount of \$4,554,500.00.
2. The Preconstruction Conference was held on Tuesday, 16 Aug 94 at 9:30 a.m. at the New Orleans Area Office. The Notice to Proceed was given and acknowledged on this same day. The date set for completion was 7 Feb 96 for a total of 540 calendar days. The above referenced contract commenced operations on 26 Aug 94 with the processing of submittals. The contractor initialized mobilization on the aforementioned date but was then delayed due to the relocation of the staging area. Physical work commenced on 5 Oct 94 with remobilization and construction of the new staging area. The Preconstruction Safety Conference was held on 28 Sep 94 at the jobsite with contractor and Corps personnel present.
3. The work for this contract consisted of clearing and grubbing; selective demolition; cutting existing steel sheet piling; pulling, cleaning and delivering existing steel sheet piling; placing concrete slope pavement; driving new steel sheet piling including piling under South Central Bell Telephone cables and New Orleans Sewerage and Water Board siphon pipes; relocating Sewerage and Water Board Feeder Cables; modifying existing utilities; degrading existing levees; placing embankment; fertilizing, seeding and mulching; painting; placing erosion control silt fence; and all other incidental work to floodwall construction including site restoration.
4. Clearing and Grubbing - Clearing and grubbing operations began on 30 Sep 94 with installation of safety fence with silt curtain which was installed along construction easements on both sides of London Avenue canal between Mirabeau Avenue and Leon C. Simon Boulevard as shown on the contract drawings. At various times during the course of construction the contractor cut overgrown grass and weeds to maintain appearance of the work area.

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CELMN-CD-NO-Q

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5. Selective Demolition - This item of work consisted of removing the existing concrete floodwall and sheet piling, removal of concrete slope pavement and riprap, removal of concrete steps and pedestrian timber bridges near Filmore Avenue and Robert E. Lee Boulevard, and all other structures. Selective demolition work began on 19 Dec 94 with removal of pedestrian bridges and chain link fence at Robert E. Lee Boulevard and Filmore Avenue. Removal and demolition of pedestrian bridges was completed on 28 Dec 94. Existing sheet piling were cut with torches at elevation +6.75' and used for temporary flood protection. The concrete cap and top portion of the sheet piles were then pushed or lifted and placed on protected side (P/S) of levee. The concrete cap was broken up and hauled to Pontchartrain Materials-New Orleans yard for re-cycling. The sheetpile scrap and re-enforcing steel scrap was hauled to Southern Scrap of New Orleans for recycling. After the new wall was completed, the existing sheet piles were either driven or cut to 6" below finished grade. Prime contractor, B & K Construction utilized the following equipment for this operation.

- 1 - Kubota 151 excavator
- 1 - Case 580 backhoe
- 1 - Hydraulic breaker
- 1 - Komatsu 200 excavator
- 1 - Mantis crane
- 2 - Tandem dump trucks

A 240' strip of slope pavement was placed on floodside (F/S) of west I-wall between Station 100+36.71 W B/L and Station 102+78.28, adjacent to telephone cable tray and 10 foot siphon pipe. Existing slope pavement was saw cut and existing sheetpile was removed before placement of 8 inch concrete slab for new slope pavement. This work began on 31 Aug 96 and completed on 30 Sep 96.

6. Cutting Existing Steel Piling - This operation began on 16 Dec 94 by prime contractor B & K Construction and sub-contractor Gill's Crane Service at East B/L Station 119+03. The contractor used cutting torches to cut existing AZ-18, RZ-10, and PZ-27 sheet piles to approx. +6.75' for use as temporary flood protection. The cut-off and scrap pieces of sheet pile were hauled off the jobsite. This work was completed on 24 May 96.

7. Steel Sheet Piling - This phase of work included cutting off and disposing of existing sheet piles, welding #6 Re-bar to steel sheets

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and driving new CZ-101 steel sheetpiling for new I-type floodwall. Temporary coffewrdam sheet piling used for temporary flood protection were also driven between Filmore Ave and Pumping Station No. 4. This work was performed by subcontractor Gill's Crane & Dozer Service, Inc., Route 6, Box 244B, New Orleans, Louisiana 70129. This work began on 4 Jan 95 at East B/L Station 119+02.3. The CZ-101 sheet piles were driven in lengths of 21'9", 24-9" and 26'9" to design tip elevations shown on the contract drawings. PSA-23 fabricated sheet piles were driven at corners and concrete collars at end of each floodwall reach. A total of 187,414 sq. ft. of CZ-101 sheet piles and 719.49 sq. ft. of PSA-23 fabricated sheets were driven for this contract. The contractor utilized 1-Koehring 535 crane with MKTV-5 vibratory hammer, 40 foot steel H-beam for alignment, 4-foot bubble level for plumbness and survey instruments for controlling piling alignment and establishing cutoff elevations. This phase of work was completed on 24 May 96.

8. Structural Excavation and Backfill - The existing levee was degraded to elevations specified for the different reaches with temporary flood protection maintained at +6.75 feet. The maximum length of protection below the height of exiting floodwall was 750 linear feet during non-hurricane season and 300 linear feet during hurricane season. Strutural excavation began on 4 Jan 95 and completed when last CZ-101 sheet piles were driven on 24 May 96. Structural backfill was placed in 8 inch lifts and compacted within 2 feet of the I-wall. The lifts were compacted using hand tampers and mini-sheeps foot rollers to 90% of maximum day density with a moisture content of plus 5 to -3 percent of optimum. Two in-place density tests per lift per 500 linear feet were taken to check compaction requirements. In addition one sand cone density test for every ten nuclear in-place density tests was taken to verify compliance of the nuclear tests. These tests were performed by Delta Testing Lab. Contractor utilized a Case 580 backhoe, and Komatsu D-37P dozer to spread and place backfill material before it was compacted. This phase of work was completed on 6 Nov 96 after placement of backfill against the deleted west I-wall floodwall monolith located between C/L Station 100+79 and C/L Station 101+08.

9. Reinforced Concrete Floodwall - This phase of work involved construction of new I-wall to replace exiting concrete capped floodwall on both sides of London Avenue canal between Leon C. Simon Boulevard and Mirabeau Avenue. Work on this phase of work began on 27 Jan 95. A 4-inch stabilization slab was poured around the

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previously driven CZ-101 sheet piles before I-wall forms were set up for each floodwall monolith. Fractured fin texture on floodwall surfaces was placed on all P/S surfaces and on F/S of 1st 7 monoliths adjacent to bridges (except near Mirabeau Ave. bridge) on both sides of London Avenue Canal. Contractor used 1 1/2 cu. yd. bucket with tremie chutes to keep concrete drop inside the forms under 5 ft. vertically. Layers of concrete were placed in lifts of less than 18 inches and concrete vibrators were used to consolidate each layer. Contractor took special precautions during hot weather and cold weather placement. Concrete was poured only if temperature was 32 degrees and rising and ice was added if concrete temperature went above 90 degrees. Alignment and grade were set and established by contractor's survey party. The last I-wall monolith was placed around the cable tray on west side of canal on 27 Aug 96. All exposed surfaces received a Class A finish and curing of concrete floodwall was accomplished by using wet burlene blankets and keeping them wet for 7 days after placement. The finishing work was performed by the Prime - B&K Construction and Subcontractor - Accent Construction. A cementitious coat of paint was applied in a two-coat system following the manufacturer's directions. The paint color was Louisiana gray and applied by airless sprayer. The floodwall was built to a final elevation of +14.4 ft NGVD. The contractor utilized the following equipment:

- Komatsu 200 Excavator (2)
- Komatsu D37P Dozer
- Kubota 151 Excavator
- Case 580 Backhoe
- Koehring 535 Crane
- Kobelco LK500 Loader
- Fiat Allis Motor Grader
- Mantis 3612 Crane
- 1-1/2 & 1-3/4 yd. concrete buckets
- Plastic funnel with 9' & 5' tremies
- (2) 1-1/2" concrete vibrators

10. Relocating Feeder Cables - This phase of work was performed by subcontractor - Walter Barnes Electric, Inc. This work began on 9 Jul 96. The feeder cable that was on existing floodwall was placed on F/S of new I-wall construction and protected with steel plates. Stainless steel anchor bolts were installed into each monolith form that was set and poured. The relocated Fl 400 feeder line was placed in 5" malleable iron clamps on F/S of new I-wall as shown on revised

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drawing #50 of contract drawings. The other FL 422 feeder line was placed under FL 400 on west side of canal between telephone conduit cable tray and 10' siphon pipe and passed thru 12" sleeve of I-wall at Station 101+40. The contractor used a boom truck to lift the feeder cable from its resting position to its new location below the haunch line of the new I-wall. Special cable rollers were used to saddle the cable when it was lifted. Splices were made in the cable wherever more length was needed in order to provide more slack when relocating the feeder line to their final position. This work was completed on 11 Oct 96.

11. Degrading Existing Levees - Existing levee embankment was degraded between elevation +5.00 to +5.50 feet on both sides of London Avenue Canal. This provided an approximate 15 to 20 feet wide area for contractor to move his equipment within the construction easement during construction of new concrete floodwall. Degraded embankment was used as structural backfill after painting of floodwall was completed. This work was done concurrently with floodwall construction for the various reaches of wall.

12. Placing Embankment - Embankment from degraded existing levee was used for new levee embankment after placement of structural backfill was completed along P/S and F/S of each reach of new floodwall construction on both sides of London Avenue Canal. Due to narrow reaches of levee between the new I-wall and resident's fences, the protected side crown was shaped to accommodate grass cutting operations for the Levee Board. The floodside embankment consisted of a minimum 2 foot wide area with a 1 on 2 slope to the canal. Equipment used for this phase of work included a Cat D-4 dozer, a Komatsu D-37P dozer, one Case 580 backhoe, and a Komatsu 200 excavator. Material was placed in 12-inch lifts and compaction achieved by performing 3 passes over completed embankment with a dozer. Placement of embankment began on 4 Sep 96 between Filmore Avenue bridge and Mirabeau Avenue bridge on east side of canal and completed on 5 Nov 96. Final cross sections were taken by contractor's survey party on both sides of floodwall then plotted and submitted to the Area Office.

Fertilizing, Seeding & Mulching - This phase of work began on 14 Oct 96 and completed on 11 Nov 96. All disturbed areas within construction limits and all newly constructed embankments on both sides of floodwall were fertilized, seeded and mulched. After the fertilizer was broadcast, it was cut into a depth of 2 inches with a harrow. Rye grass and unhulled Bermuda grass seed were broadcast and

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then sealed with a pass of a cultipacker. Finally, mulch was applied with the use of a culti-packer. A total of 8.72 acres were seeded, fertilized and mulched. Southeast Erosion Control, Inc. performed this phase of work.

13. There were 24 modifications on this contract and a summary of each follows:

- a. P00001 (FM-001) dated 7 Jul 94. This provided additional funds for payment in accordance with SPECIAL CLAUSE H-26, an increase of \$2,000,000.
- b. P00002 (CIN05) - dated 10 Oct 94. This modification provided additional funds and time for relocation of staging area and office trailer from Pratt Park to corner of Pratt Dr. and Robert E. Lee Boulevard. This modification increased the contract by \$15,004.19 and contract time was extended 41 days.
- c. P00003 (TE-001) dated 11 Nov 94 granted a 3 day time extension due to severe weather conditions during period of 17 Aug thru 31 Oct 94. No increase in funds.
- d. P00004 (FM-002) dated 2 Dec 94. This modification increased funds available for payment by \$15,004.19. Total funds available to date is \$4,515,004.19. No contract time extended.
- e. P00005 (CAN-01) dated 6 Dec 94. This modification is for contractor's new address:  
B&K Construction Company, Inc.  
Lock Box No. 95048  
New Orleans, LA 70195
- f. P00006 (CIN-02) dated 7 Mar 95. Provided for installation of a 6 foot wooden fence on the north, south and west sides of north staging area. This modification added Pay Item #22 to the contract with the amount being \$9,263.77 with no contract time extension.
- g. A00007 (TE-002) dated 2 Feb 95 - Granted a 2-day time extension due to severe weather conditions during period of 1 Nov 94 thru 31 Jan 95. No increase in amount of contract was made.
- h. P00008 (CIN-04) dated 23 Feb 95 - This modification extended limits of temporary flood protection from 750' to 1625' during



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non-hurricane season between E B/L Stations 102+67.72 to 119+03.06 only. No additional funds were added to the contract but 10 days were added to contract time.

i. P00009 (CIN-03) dated 2 May 95. This modification was for a waterproof connection between siphon pipes and I-wall at Pumping Station #4 around the electrical cable tray penetrating the wall. Contract amount was increased \$939.96 and 1 day time extension was added.

j. P00010, TE-003 dated 1 Jun 95. This modification was made to extend contract time due to unusually high tides and severe weather delays. The contract time was extended 30 days. No additional funds were added to the contract.

k. P00011-UCO-01 dated 31 Jul 95. This modification to the contract was for emergency closure of I-Wall breaches between W B/L Station 108+37 to 109+53, pulling piling up to elevation +11.50. No additional funds and no time extension was given for this modification.

l. P00012, TE004 dated 8 Aug 95 granted a 5 day time extension due to severe weather and high tides during the period 1 May to 31 Jul 95. No additional funds were added to the contract.

m. P00013-CO-02 dated 2 Oct 95. This modification provided for gap closures with flood protection to elevation 11.5 ft. NGVD due to Hurricane Opal.

n. A00001, CIN-05 dated 11 Oct 95. This modification was given to provide emergency gap closures between W B/L Station 108+37 to 109+53 due to Hurricane Erin. This modification finalized Mod P00011, UCO-1 with the contract price increased by \$22,173.00 and contract time increased by 2 calendar days.

o. A00002, CIN-06 dated 12 Oct 95, changed the limits of "No Work" area on east side of London Avenue Canal at Pump Station #4 from E B/L 100+11.29 to E B/L 99+69.22. The contract price was reduced by \$5,100.00 with no change to contract time.

p. A00003, CIN-07 dated 24 Oct 96. This modification was for a VECP which revised the wall realignment between West B/L Station 70+47 to 84+54.77 and 85+90 to 99+83.67 to a position 4 feet to F/S of

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original alignment. Pay items #23 and #24 were added to the contract decreasing the contract price by \$10,800. No additional time was added to the contract.

q. A00004, TE-005 dated 9 Nov 95. The contract was extended 11 days due to adverse weather during period of 1 Aug 95 thru 31 Oct 95. The contract price remained the same.

r. A00005, CIN-08 dated 22 Dec 95. The modification provided for installation and removal of emergency gap closures between E B/L Station 70+30 and 72+95 due to Hurricane Opal. The modification definitized mod P00013 CO-02 with the contract price increased by \$20,287.02 and the contract time increased by 6 calendar days.

s. A00006, TE-006 dated 6 Feb 96, granted a 28 day time extension due to severe and adverse weather delays between 1 Nov 95 - 31 Jan 96.

t. A00007, CIN-09 dated 6 Feb 96. This modification provided for deleting 1 monolith on west side of London Avenue canal at Pumping Station #4 between Station 100+84.14 to 101+12.35. The contract price was reduced by \$428.96. No additional time was granted for this modification.

u. A00008, TE-007 dated 7 May 96, granted a 30 day time extension due to unusually severe weather between 1 Feb thru 30 Apr 96. No additional funds were granted.

v. A00009, CIN-11 dated 23 Jul 96, changed the limits of the "No Work" area on the east side of the canal at Pumping Station No. 4 and cancelled modification A00002 in its entirety. This modification reduced Item No. 10 by \$5,000 and Item No. 14 by \$100. The contract time remained unchanged.

w. A00010, TE-008 dated 5 Aug 96, granted a 43 day time extension due to unusually severe weather between 1 May 96 thru 31 Jul 96. No additional funds were granted for this modification.

x. A00011, TE-009 dated 5 Nov 96, extended the required completion date of the contract 55 calendar days as a result of unusually severe weather for the period between 1 Aug thru 31 Oct 96.

14. The contractor submitted and enforced an adequate Accident

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Prevention Program. The contractor was very cooperative in the performance of the work and performed daily safety inspections in addition to holding weekly safety meetings. There were no lost time accidents throughout the duration of the project.

15. The contractor was efficient and professional in the performance of the work and any extra work required to complete this project. The equipment used was kept in good working condition. Quality control was maintained throughout the life of the contract.

16. Following is a comparison of contract quantities versus actual quantities:

Item	Description	Qty & Unit	Unit Price	Est Amt	Final Qty	Earnings to date
0001	Mob & Demob (P00002)	LS	LS	\$215,004.19	100%	\$215,004.19
0002	Clearing & Grubbing	LS	LS	\$175,000	100%	\$175,000
0003	Selective Demolition	LS	LS	\$260,000	100%	\$260,000
0004	Pedestrian Bridge Demolition	LS	LS	\$15,000	100%	\$15,000
0005	Embankment, Semicompacted Fill	LS	LS	\$11,200	100%	\$11,200
0006	Structural Excavation & Backfill	LS	LS	\$59,000	100%	\$59,000
0007	Fertilizing, Seeding & Mulching	8AC	\$1,250	\$10,000	100%	\$10,000
0008	Cut-off Existing AZ-18, RZ-10 and PZ-27 Sheet Piling	LS	LS	\$53,600	100%	\$53,600
0009	Pull, Clean, Salvage and Deliver Existing	LS	LS	\$20,500	100%	\$20,500

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AZ-18 Steel Sheet Piling

0010	Redrive Existing AZ-18 Steel Sheet Piling (A00009)	LS	LS	\$5,000	00%	\$0.00
0011	Piling, Steel Sheet, Type PZ-22	187,844SF	8.50	\$1,596,674	187,414.4	1,593,022.4
0012	Piling, Steel Sheet, Type PSA-23	997SF	\$18	\$17,946	719.49SF	\$12,950.82
0013	Painting	LS	LS	\$7,000	100%	\$7,000
0014	Reinforced Concrete Floodwall (P00014), (A00002), (A00007)	LS	LS	\$1,482,731	100%	\$1,482,731
0015	Concrete Slope Pavement	188SY	\$40.00	\$7,520	141 SY	\$5,640.00
0016	Utility Modifications	LS	LS	\$117,000	100%	\$117,000
0017	Temporary Relocation of Feeder Lines	LS	LS	\$38,500	100%	\$38,500
0018	Permanent Relocation of Feeder Lines	LS	LS	\$420,000	100%	\$420,000
0019	Erosion Control					
AA	First 10,670 LF	10,670LF	\$2.00	\$21,340	10,670LF	\$21,340
AB	All over 10,670LF	2,700LF	\$2.00	\$ 5,400	555LF	\$ 1,110
0020	Temporary Flood Protection and Cofferdams (A00001), (A00005)	LS	LS	\$47,460.02	100%	\$47,460.02
0021	Miscellaneous Metals	LS	LS	\$21,500	100%	\$21,500

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0022	Fencing (P00006)	LS	LS	\$9,263.77	100%	\$9,263.77
0023	VECP, Wall Realignment (A00003)	LS	LS	(-\$24,000)	100%	(-\$24,000)
0024	VECP, Payment Wall Realignment (A00003)	LS	LS	\$13,200	100%	\$13,200
			TOTAL	\$4,605,838.98		\$4,592,421.78

17. A copy of as-built drawings are attached.

18. The contract was completed in accordance with contract plans and specifications with final acceptance pending, dependent upon final cleanup of staging area. Final acceptance is scheduled to be performed during the second week of December 96.

Atch

  
DAVID BEADLE  
Project Inspector  
New Orleans Area Office

CF:  
Proj Engr (Wagner)  
Proj Insp (Beadle)  
Ofc Engr (Urban)  
CELMN-CD-Q  
CELMN-CT  
CELMN-ED-C  
CELMN-CD-B  
CELMN-CD-CS  
CELMN-PM  
CELMN-OD-ON

HIGH LEVEL PLAN  
ORLEANS PARISH, LA.

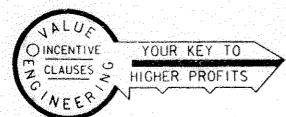
LONDON AVE. OUTFALL CANAL

PARALLEL PROTECTION

MIRABEAU AVE. TO ROBERT E. LEE BLVD., WEST

MIRABEAU AVE. TO LEON C. SIMON BLVD., EAST

AS-BUILT



GREEN PEN  
CORRECTION ARE  
TAKE FROM  
JOHN MORTON'S  
AS-BUILT SET.  
WE NEVER REC'D.  
OUR AS-BUILT SET.  
H. Howard  
4/14/98



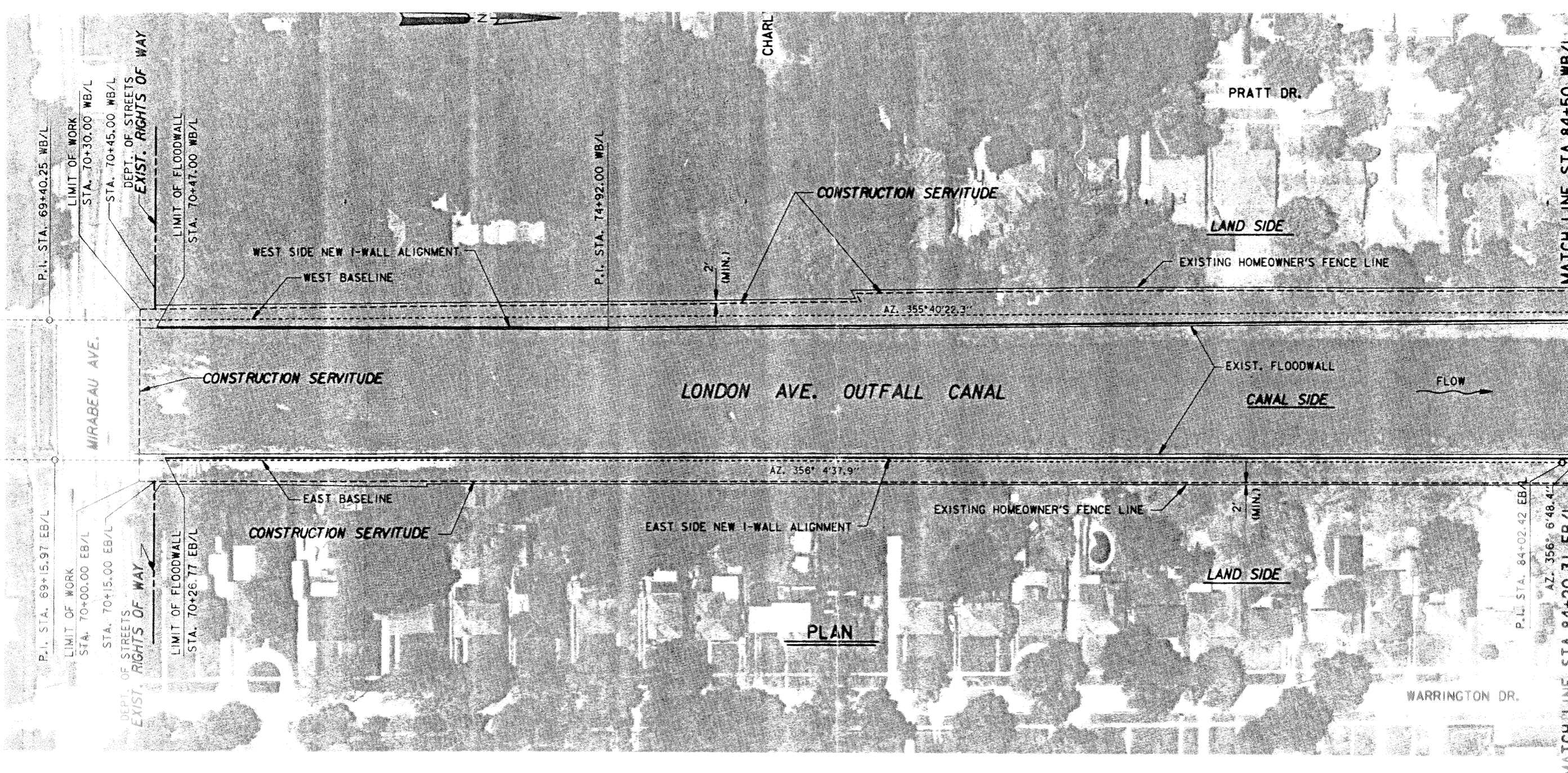
US Army Corps  
of Engineers  
New Orleans District

1994

x Chris Wagner  
Zane Bryan  
JOHN MORTON  
OZINE HAG

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

H-4-40295

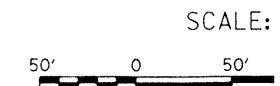


MIRABEAU AVE. MAY BE USED FOR ACCESS

NOTE:  
 THE LONDON AVE. OUTFALL CANAL PARALLEL PROTECTION, PUMP STATION #3 TO MIRABEAU AVE. FLOODWALL WAS AWARDED IN OCTOBER 93. CONSTRUCTION SHOULD BE FINISHED IN JUNE 95. MIRABEAU AVE. IS PART OF THE ACCESS FOR THAT PROJECT.

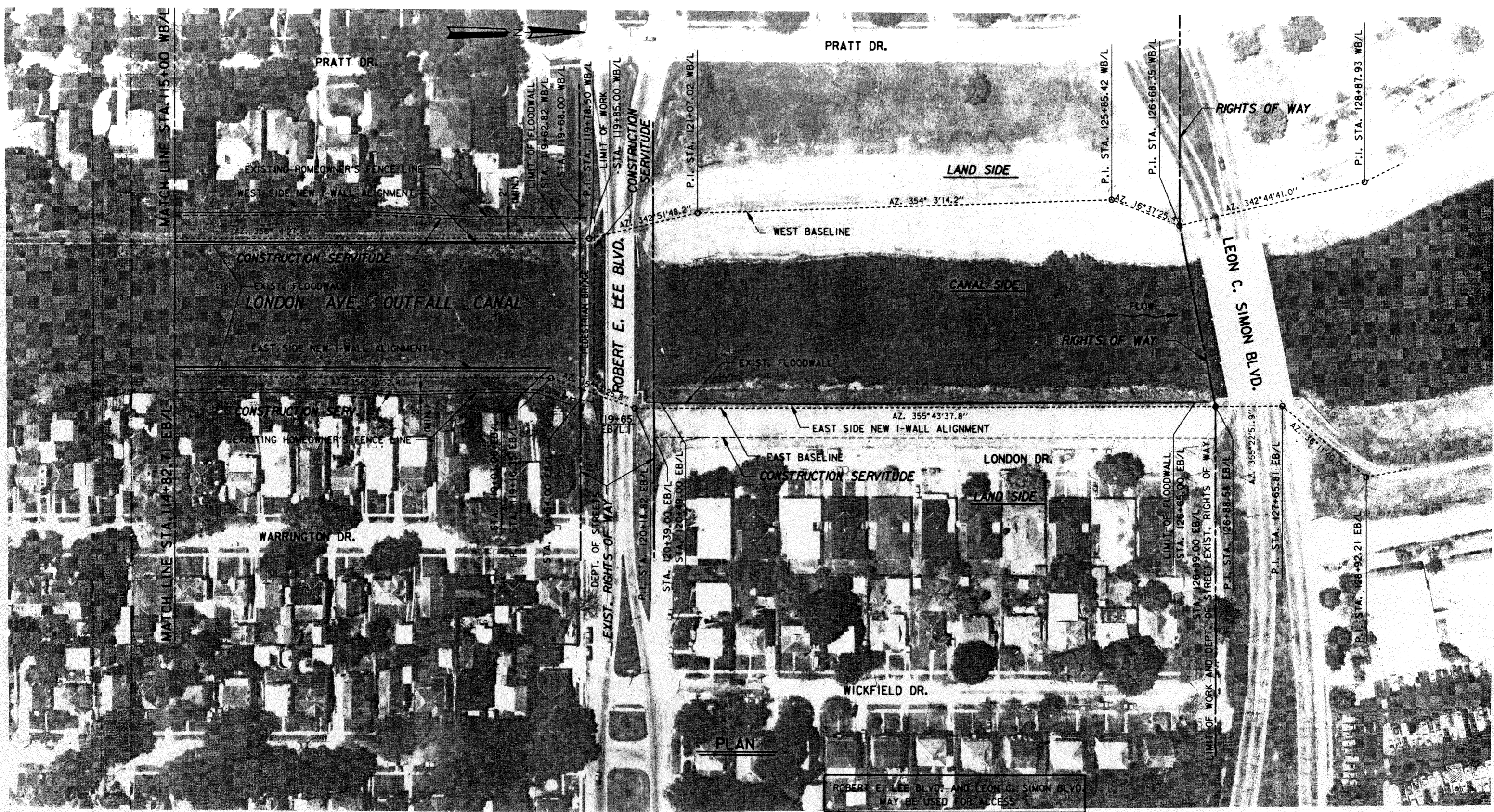
CONSTRUCTION SERVITUDE			
WEST BASELINE		EAST BASELINE	
STATION	DISTANCE	STATION	DISTANCE
70+30	* -10.0'	70+00	* -20.4'
84+50	* -21.4'	84+20	* -20.4'
70+32	* -35.2'		
70+40	* -32.0'		

\* NOTE: STATION NUMBERS AND OFFSETS FROM THE BASELINE ARE APPROXIMATE AND AWAY FROM THE CANAL.



SYMBOL	DESCRIPTION	REV

**U. S. ARMY ENGINEERING CORPS**  
 NEW ORLEANS  
**BURK - KLEINPETER, INC.**  
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS  
 NEW ORLEANS, LOUISIANA  
 LAKE PONTCHARTRAY HIGH LEVEE



PLAN

ROBERT E. LEE BLVD. AND LEON C. SIMON BLVD.  
MAY BE USED FOR ACCESS

CONSTRUCTION SERVITUDE	
WEST BASELINE	EAST BASELINE

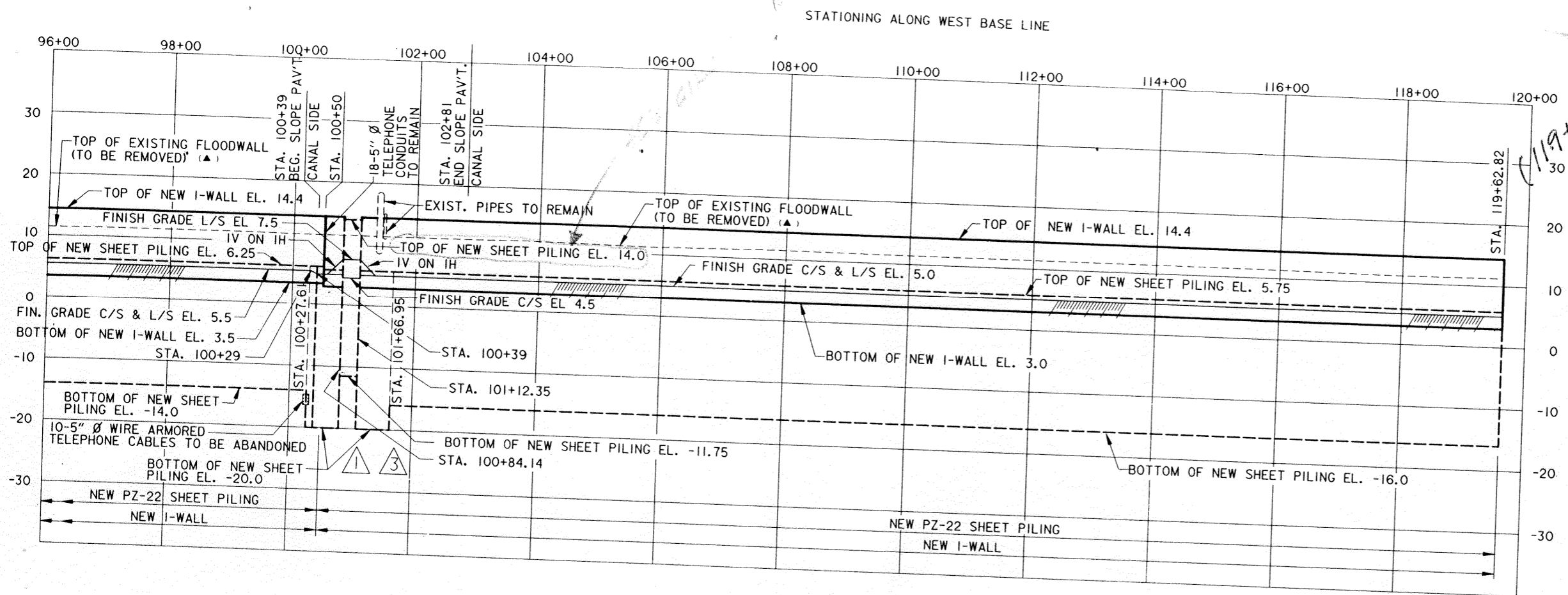
NOTE:

SCALE: 1" = 50'



SYMBOL	DESCRIPTION
	REVIS
	U. S. ARMY ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
	CORPS NEW ORLEANS
	ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
	NEW ORLEANS, LOUISIANA
	LAKE PONTCHARTRAIN HIGH LEVEL
	LONDON AVE. OUTFALL CANAL

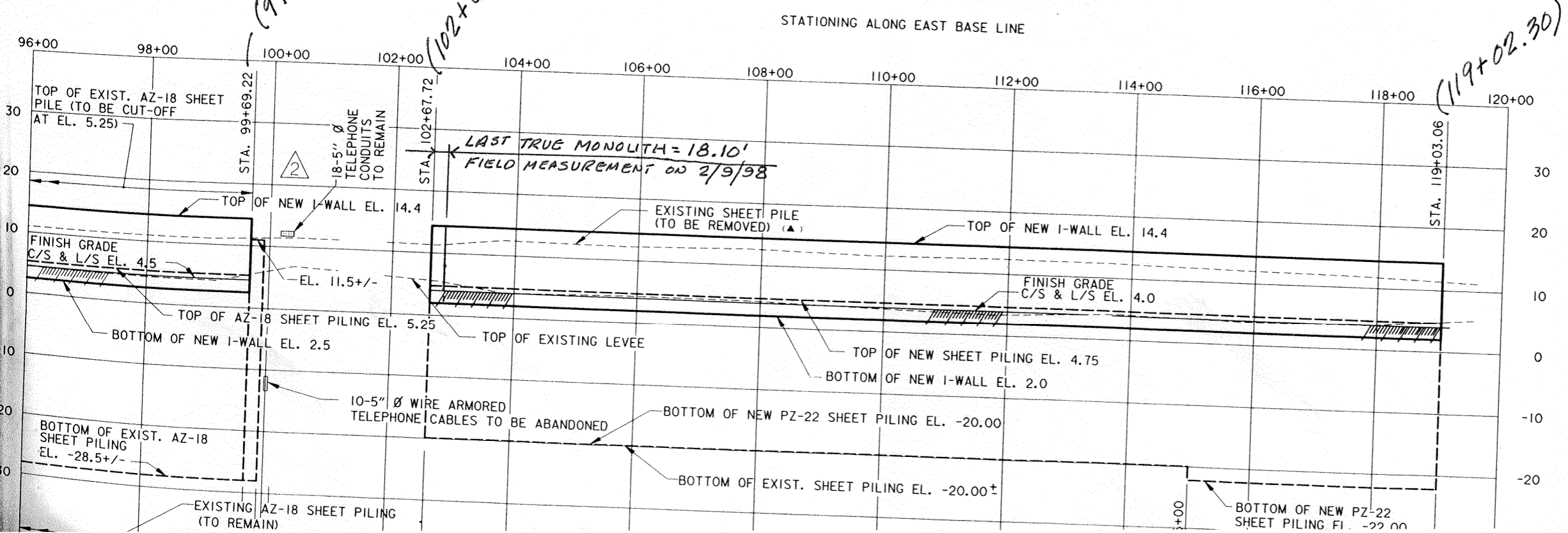




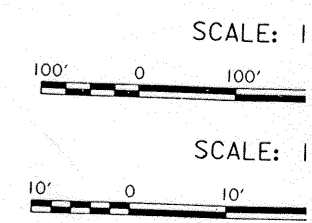
**WEST PROFILE (CANAL SIDE ELEVATION)**

SCALE: HOR. 1" = 100'  
VERT. 1" = 10'

(▲) FOR LIMITS OF REMOVAL, SEE TYPICAL SECTIONS DWGS. 15-17.

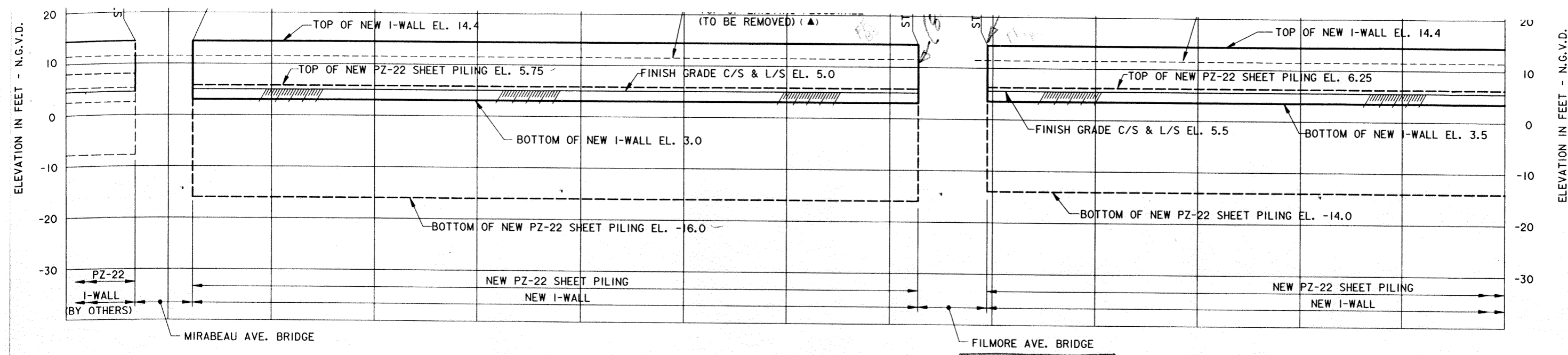


THIS PLAN ACCOMPANIES  
MODIFICATION A0007  
TO CONTRACT NUMBER  
DACW29-94-C-0079



SYMBOL	DESCRIPTION
▲	REVISED PROFILE; MOD. A7
▲	REVISED EAST PROFILE; MOD. A
▲	AMEND. NO. 1
	REVISION

U. S. ARMY ENGINEER

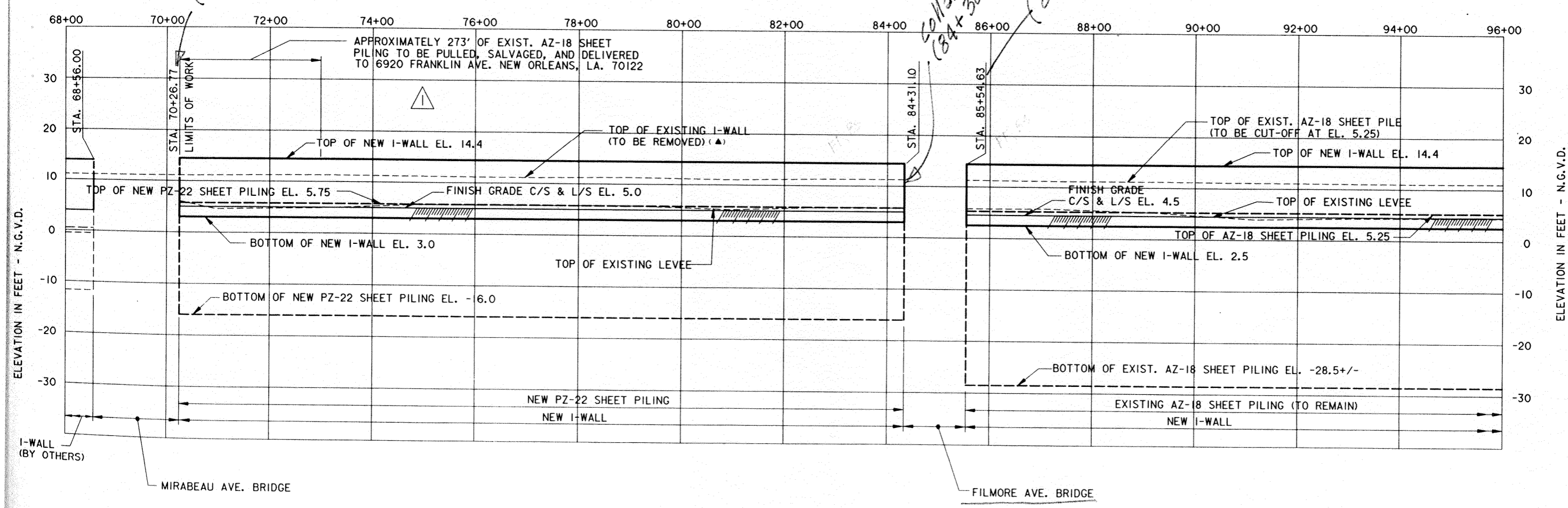


**WEST PROFILE (CANAL SIDE ELEVATION)**

SCALE: HOR. 1" = 100'  
VERT. 1" = 10'

STATIONING ALONG EAST BASE LINE

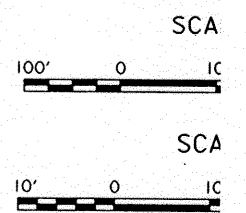
NOTES:  
FOR TYPICAL SECTIONS, SEE DWG  
(▲) FOR LIMITS OF REMOVAL, SEE T



**EAST PROFILE (LAND SIDE ELEVATION)**

SCALE: HOR. 1" = 100'  
VERT. 1" = 10'

THIS PLAN MODIFIED TO CONFORM TO DACW

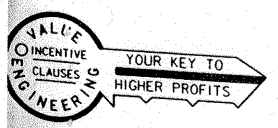


▲	REVISED NOTE IN EAST PROFILE
SYMBOL	DESCRIPTION

**U. S. ARMY**  
**BURK - KLEINPETER**  
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTALISTS  
NEW ORLEANS, LOUISIANA  
LAKE PORT CHARLES

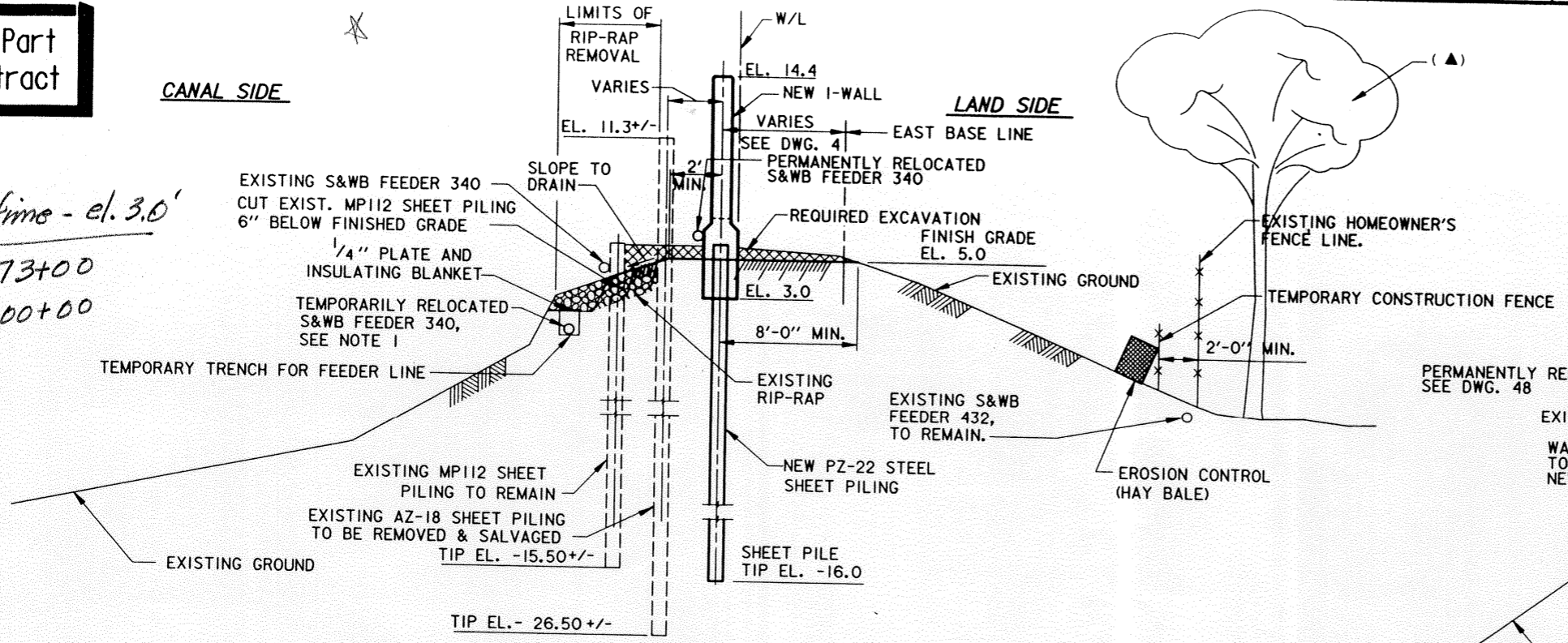
**LONDON AVE. OUTFALL**  
MIRABEAU AVE. TO  
MIRABEAU AVE. TO  
ORLEANS

DESIGNED BY: R. CHOPIN  
DRAWN BY: BINH LE  
CHECKED BY: S.I. SHAH  
SUBMITTED BY: MICHAEL G. JACKSON, P.E.  
BURK-KLEINPETER, INC.

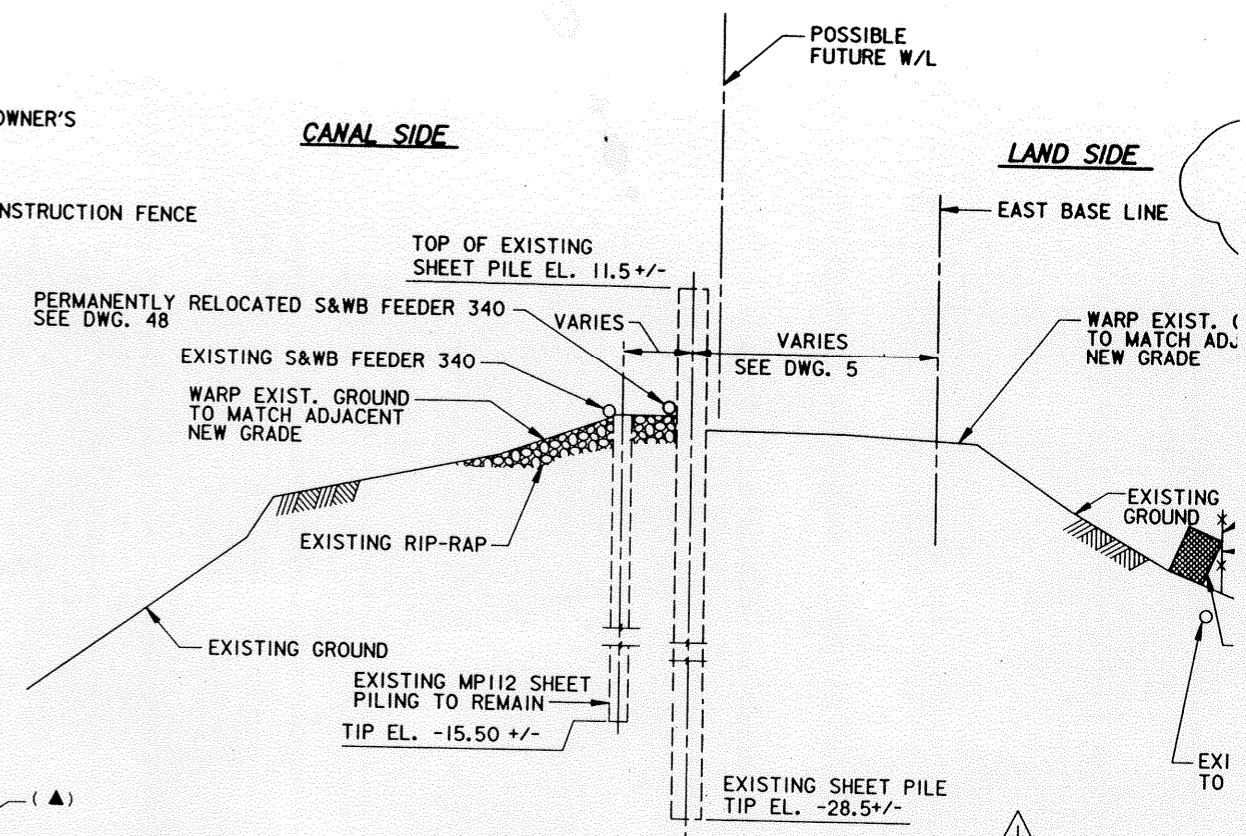


**Safety is a Part of Your Contract**

*Degrade any time - el. 3.0'*  
 69+15 to 73+00  
 85+20 to 100+00

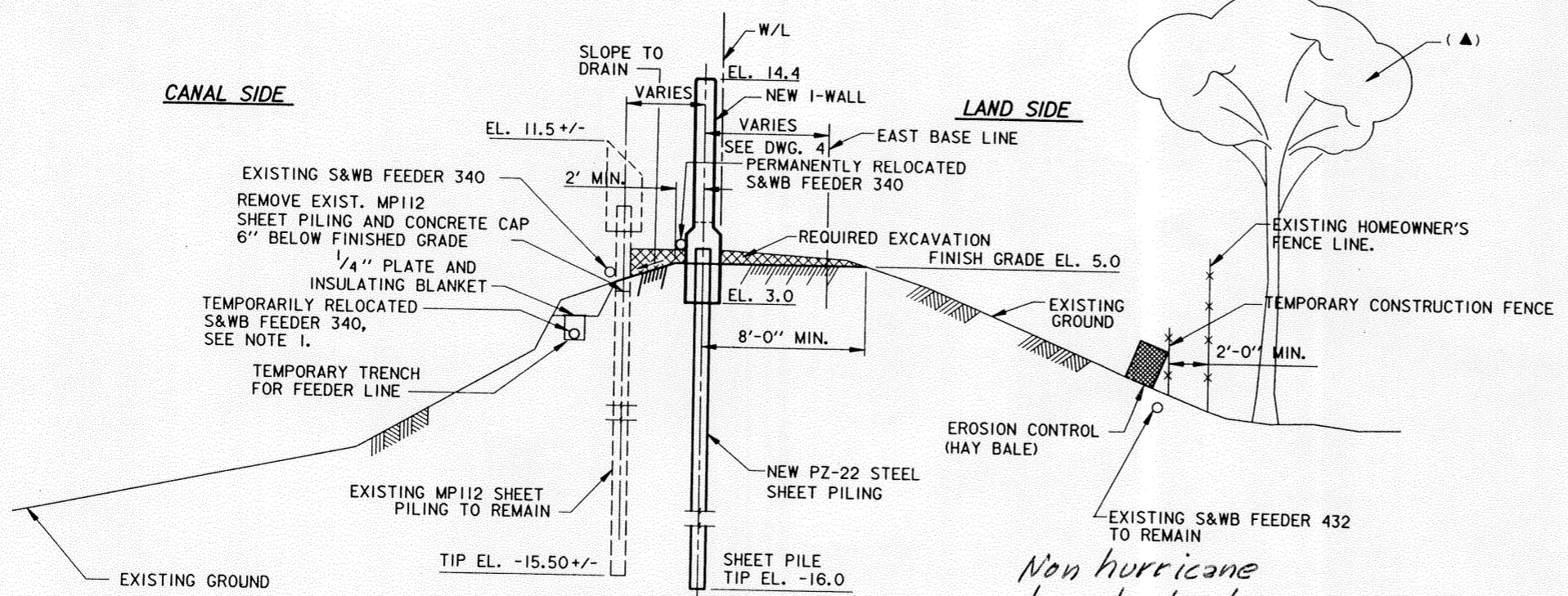


**STA. 70+26.77 TO STA. 72+95.00 EB/L**  
 SCALE: 1/4" = 1'-0"



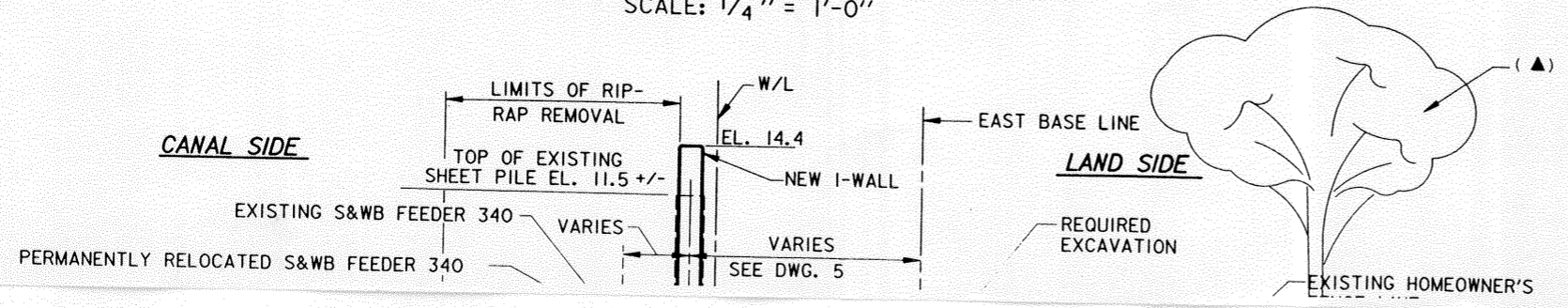
**STA. 99+69.22 TO STA. 99+91.07 EB/L**  
 SCALE: 1/4" = 1'-0"

(▲) THE CONTRACTOR SHALL TRIM THE TREE LIMBS TO A MINIMUM WITHIN THE CONSTRUCTION SERVITUDE LINE, NECESSARY FOR MAINTAINING MINIMUM CLEARANCE FOR CONSTRUCTION.

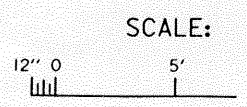


**STA. 72+95.00 TO STA. 84+31.10 EB/L**  
 SCALE: 1/4" = 1'-0"

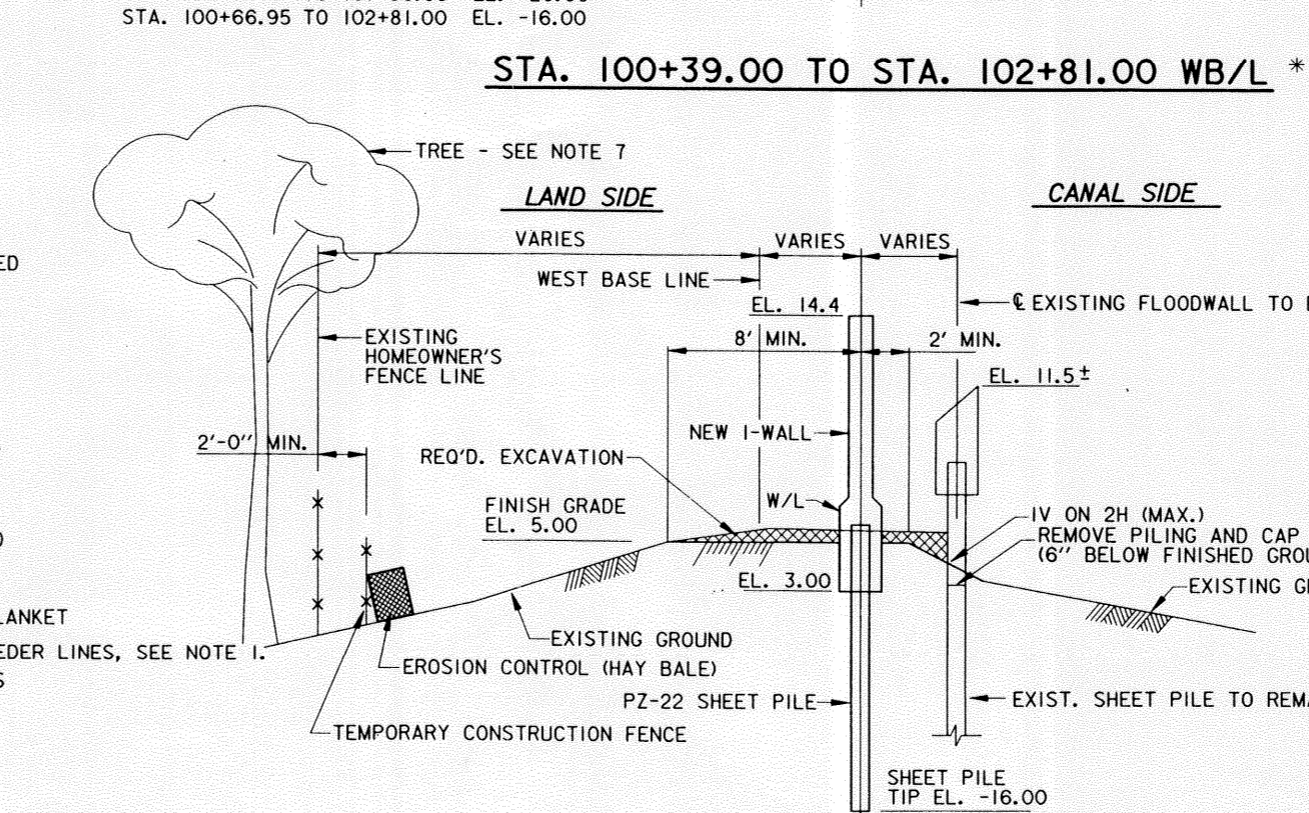
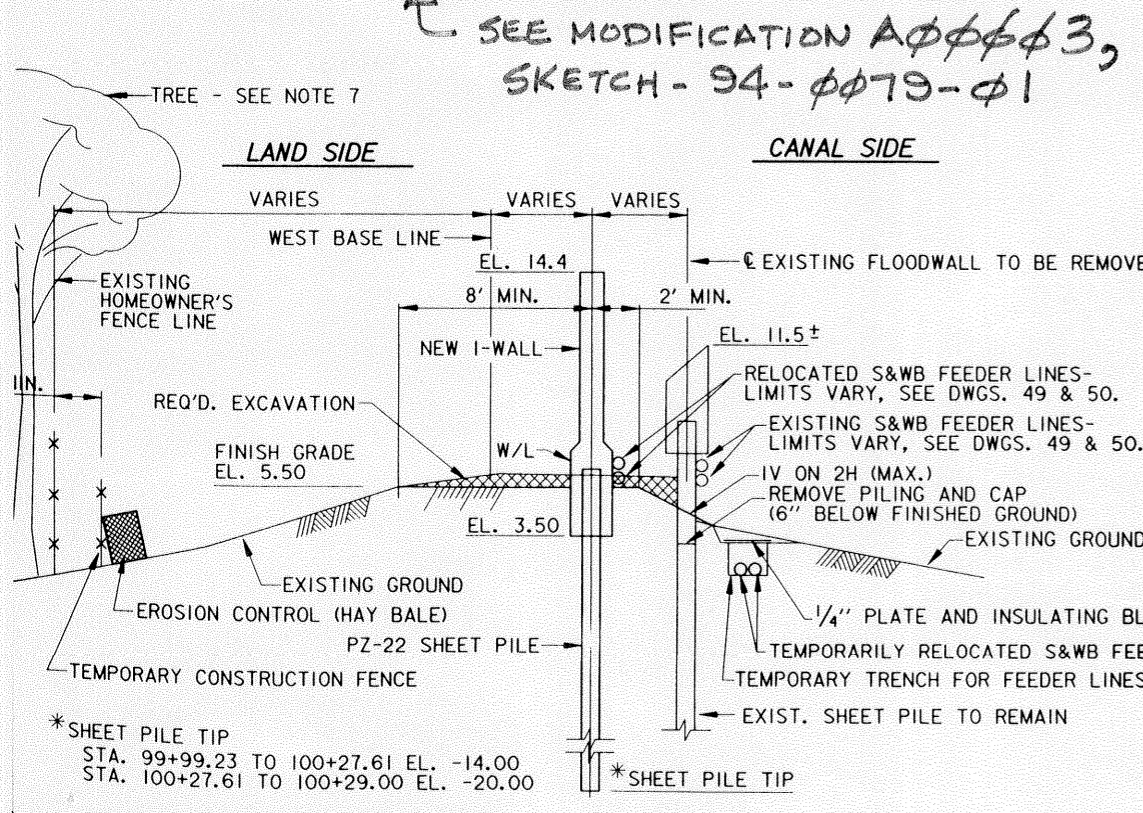
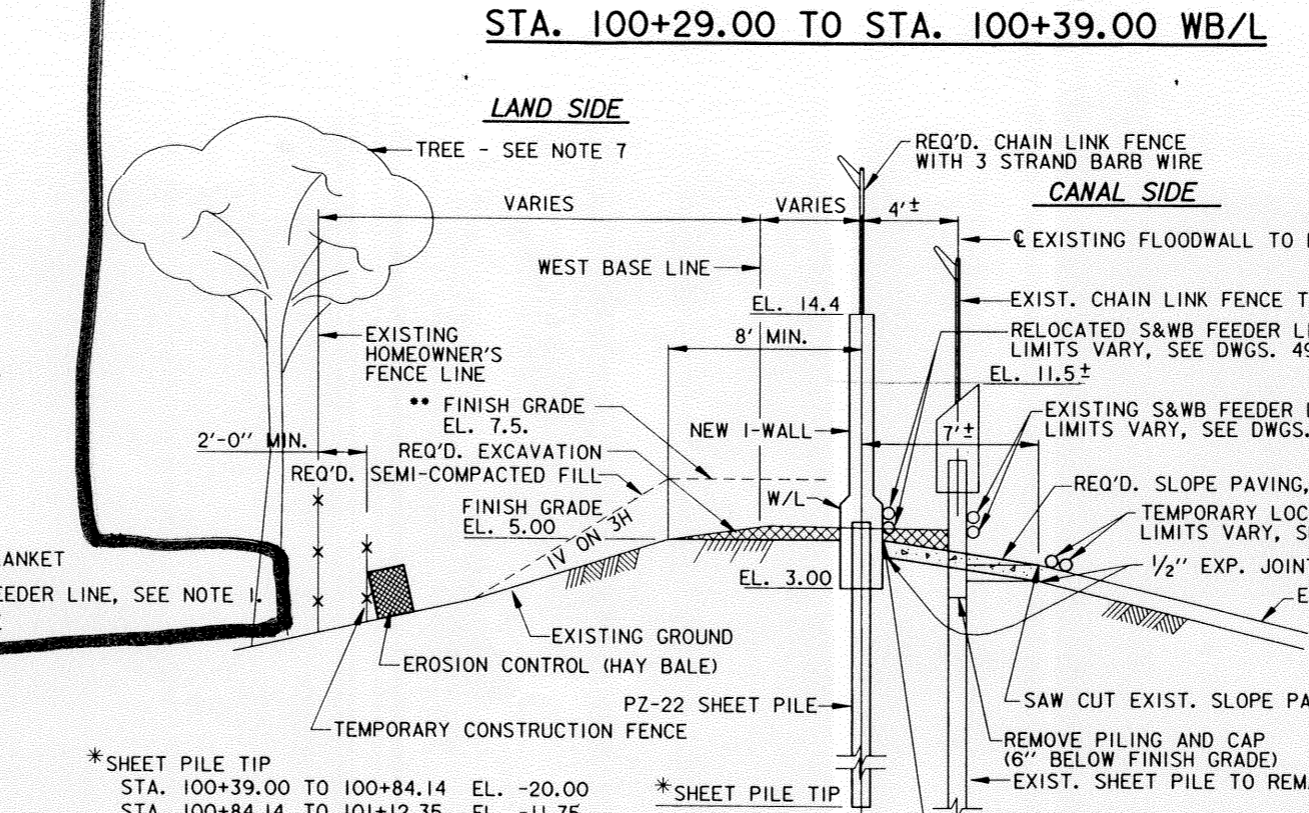
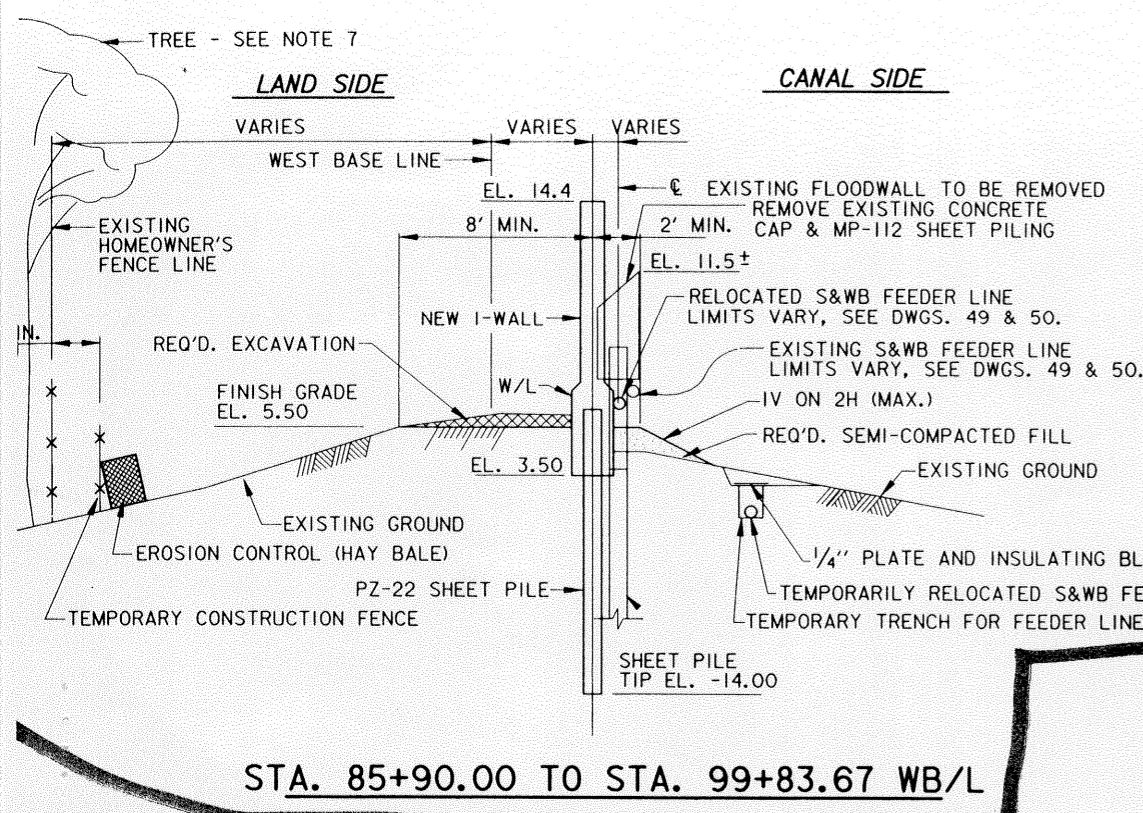
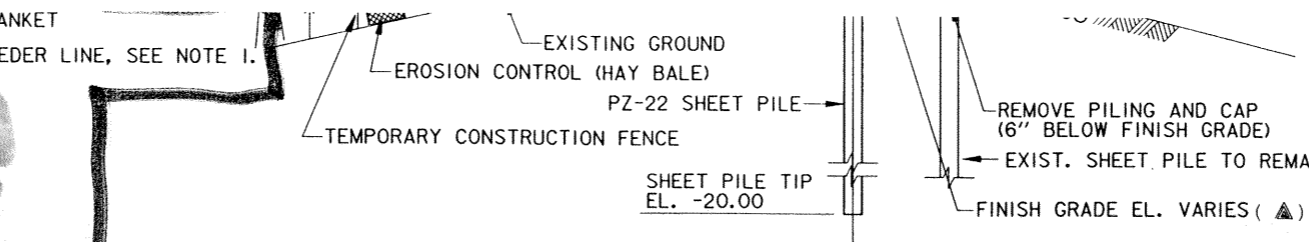
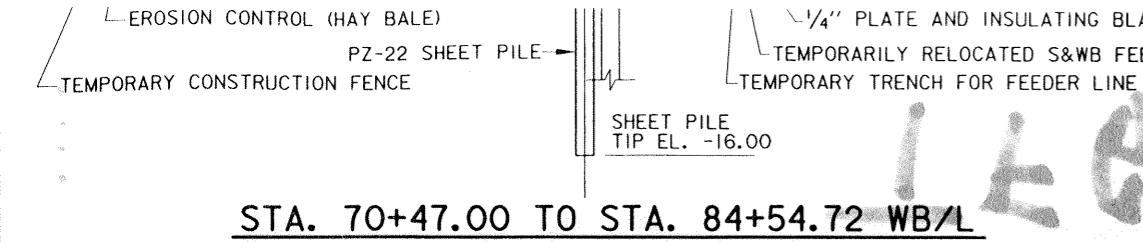
*Non hurricane degrade to el. 3.0*



THIS PLAN ACCOMPANIES MODIFICATION A00002 TO CONTRACT NUMBER DACW29-94-C-0079




NOTE:



- NOTES:
- TEMPORARILY RELOCATE FEEDERS 400 & 422, COVERING WITH A STEEL PLATE AND LEVEE M. CONCRETE CAP IS REMOVED FROM THE SHEET. 422 SHALL BE REMOVED FROM THE TEMPORARY ATTACHED TO THE NEW FLOODWALL.
  - EXISTING FEEDER 400 CONSISTS OF A THREE STEEL ARMORED SUBMARINE 400 MCM COPPER, LEAD COVER 15KV POWER CABLE.
  - FOR FEEDERS 400 & 422 RELOCATION DETAILS
  - FOR PLAN, SEE DWGS. 4 THRU 7.
  - FOR PROFILES, SEE DWGS. 12 THRU 14.
  - FOR GENERAL NOTES, SEE DWG. 2.
  - THE CONTRACTOR SHALL TRIM TREE LIMBS TO THE CONSTRUCTION SERVITUDE LINES NECESSARY MINIMUM CLEARANCE FOR THE CONSTRUCTION.
  - EXISTING FEEDER 422 CONSISTS OF A THREE STEEL ARMORED SUBMARINE NO. 4 AWG COPPER LEAD COVER 15KV POWER CABLE.
  - FOR FRACTURED FIN TEXTURE DETAILS, SEE I

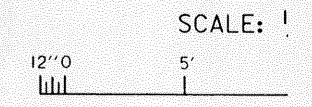
\*SHEET PILE TIP

STA. 100+39.00 TO 100+84.14	EL. -20.00
STA. 100+84.14 TO 101+12.35	EL. -11.75
STA. 101+12.35 TO 101+66.95	EL. -20.00
STA. 100+66.95 TO 102+81.00	EL. -16.00

\*\* STA. 100+84.14 TO 101+12.35, WB/L UNCAPPED SHEET PILE, SEE DWG. 13

THIS PLAN AC  
MODIFICATION  
TO CONTRACT  
DACW29-94-

Safety is  
of Your



NOTE: STATIONING GIVEN AT

SYMBOL	DESCRIPTION	REVIS
▲	REVISED STATIONING, MOD. AT	

NOTE:  
THE CONTRACTOR SHALL NOT USE OLD STEEL SHEET PILING FOR THE TEMPORARY FLOOD PROTECTION.

**U. S. ARMY ENGINEERS**  
CORPS  
NEW ORLEANS

**BURK - KLEINPETER, INC.**  
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS  
NEW ORLEANS, LOUISIANA

LAKE PONTCHARTRAIN  
HIGH LEVEL  
**LONDON AVE. OUTFALL CANAL**  
MIRABEAU AVE. TO ROBERT  
MIRABEAU AVE. TO LEON C.  
ORLEANS PARISH

**TYPICAL WEST**

DESIGNED BY: B.D.	DATE: 03/94
DRAWN BY: M.W.B.	CADD FILE: 40
CHECKED BY: B.D.	SOLICITATION: DACW29-
SUBMITTED BY: MICHAEL G. JACKSON, P.E.	BURK-KLEINPETER, INC.

YOUR KEY TO HIGHER PROFITS