

MEMORANDUM THRU

Area Engineer, NOAO  
C/Const Div ATTN: Contract Admin Sec.

FOR C/Eng Div.

SUBJECT: Narrative Completion Report for Contract No. DACW29-98-C-0022, Lake Pontchartrain Louisiana & Vicinity, New Orleans Lakefront Levee, Orleans Parish Lakefront – East and West of I.H.N.C., Miscellaneous Floodwall Capping, Lake Marina Avenue to Collins Pipeline, Orleans Parish, LA

1. The subject contract, dated 12 February 1998, was awarded to Johnson Bros. Corporation of Louisiana, 2617-A Edenborn Avenue, Metairie, LA 70002. The Notice to Proceed was issued on 19 March 1998, with work scheduled to commence on 29 March 1998. The original completion date was set for 12 January 1999 (300 calendar days) with estimated amount of contract being \$997,200.00.
2. Required work under this contract included clearing and grubbing, cutting of sheet piling, Structural Excavation and backfill, Construction of capped I-wall, Drilling Anchor, Bolts, placing of reinforced concrete, fertilizing, seeding and mulching, construction of an Asphalt concrete swing gate apron, demolition of concrete I-wall and incidental work.
3. The pre-construction conference was held at the New Orleans Area Office on 19 March 1998. Detailed minutes of this meeting are located in the contract files. The Notice to Proceed was signed by the contractor on 19 March 1998 and the contractor began work on submittals and procurement of materials by 29 March 1998.
4. The contract provided for four major phases of construction (1) Selective demolition, (2) Miscellaneous, Floodwall Capping & I-wall construction (3) Structural Excavation & Backfill and (4) Fertilizing & Seeding.
5. On 4 May 1998, the contractor started taking videos of existing conditions at every construction site. On 5 May 1998, the contractor attended a Pre-work Safety conference, mutual understanding, and QC coordination meeting held at the jobsite.
6. On 11 May 1998, Sub-Economy Grassing of Ethel, LA, began installing safety fence with erosion control at east Bayou St. John work site.
7. On 18 May 1998, contractor mobilized 7250 American crane to the jobsite at Bayou St. John and started building I-wall forms for new floodwall. Other work sites included in this contract were located at Lake Marina Ave, Topaz St., Franklin Ave, Lincoln Beach, Collins Pipeline, and Camp Leroy Johnson.

8. Selective demolition and removal of existing floodwalls at the Topaz St and Lincoln Beach work sites and existing pavement at the Topaz St. work site was performed in accordance with the contract drawings.

9. On 14 July 1998, cast in place structural concrete work began when 1<sup>st</sup> monolith at Bayou St. John was poured. The contractor utilized both steel forms with structural high density overlay and wooden forms. Shop drawing and design calculations for formwork had previously been submitted and approved. Construction of the new reinforced concrete floodwalls consisted of 75 concrete placements of 3000 p.s.i. concrete. Equipment used in this phase of work were 2 – 322 Caterpillar backhoes, 2 – concrete buckets with chute, 2 – generators and 2 – concrete vibrators. This phase of construction lasted from 14 July 1998 until 3 March 1999.

10. On 24 July 1998, the cementitious paint operation began. The finish was applied to all new floodwalls constructed under this contract. This operation lasted until 20 March 1999.

11. On 07 July 1998, the structural excavation and backfill operation began. The backfill was placed in 8 inch lifts and compacted with self-propelled wacker-packer. A density of 95% compaction was reached on each lift with nuclear gage testing performed by Alpha Testing and Inspection, Inc., 2708 Marietta, Kenner, LA. Equipment used for this phase of work was a 322 Caterpillar backhoe, Caterpillar D-3 dozer and self-propelled compactor. This operation was completed on 12 March 1999.

12. On 03 August 1998, the fertilizing, seeding, and mulching operation began. The fertilizer used was 13-13-13 at 342 lbs. per acre. The contractor applied 50 lbs – Hulled Bermuda during (Spring & Summer season) and (50 lbs- Unhulled Bermuda and 35 lbs of Rye grass) during Fall/Winter season. Mulching was wood cellulose fiber and was sprayed from 1000 gallon tank. The sub contractor for this phase of work was, Economy Grassing, 7054 W.T. Hall Road, Ethel, LA. The sub-contractor utilized the following equipment: 2 – farm tractors, seed spreader, spike tooth harrow, cultipacker and 1000 gallon hydro-mulch sprayer. This operation lasted until 20 March 1999. Final inspection of jobsite was made on 20 April 1999.

### 13. Modifications –

A00001 (CIN01) – Modified the floodwall at Collins Pipeline – contract price is increased \$7,225.69. Contract time is increased by one day.

A00003 (CIN02) – Modify the floodwall at Franklin Avenue – contract price is increased \$1,352.00. No changes to contract time.

A00004 – (CO-02) – Modified to lower bottom of floodwall 0.8 feet to provide sheet pile embedment of 2 feet 9 inches. No changes to contract time.

A00005 – (CIN05) – Add a gate latch at Lake Marina Avenue floodgate. Contract price increases by \$1,059.79. No changes to contract time.

A00006 (CIN06) – Replaces additional 70 feet of underground electrical conduct and wire not shown on drawings. Contract price increased \$2,260.00. No changes to contract time.

A00007 (CIN08) – To repair asphalt paving at the Topaz Street Floodgate. Contract price is increased \$11,949.75. No changes to contract time.

A00008 (CIN04) – Make equitable adjustment for emergency closure at Topaz Street for Tropical Storm Earl. The modification defines CO-01. Contract price is increased \$73,513.87. Contract time is increased by 28 days.

A00009 (CIN07) – Modifies the floodwall at Lincoln Beach. Contract price is increased by \$50,000.00. Contract time is increased by 13 calendar days.

14. Following is a list of the sub-contractor and major suppliers

- a. A & A Enterprises, Kenner, LA - 2" saw cut – I-wall
- b. Lulich Steel Corporation – Slidell, LA-Re-steel
- c. Economy Grassing – Ethel, LA – Safety Fence/Erosion Control
- d. La Farge, Inc. – Metairie, LA Ready Mix Concrete
- e. Ax Reinforcement Co – Terrytown, LA – steel & Rebar tying
- f. Manufab, Pearlinton, Miss; Gate Extension, Miscellaneous Metals & h-type waterstop.
- g. Construction Materials, Jefferson, LA: 3- bulb water stop

15. The contractor submitted and enforced an adequate Accident Prevention Program. The contractor was very cooperative in the performance of the work and performed daily safety inspections, as well as, holiday weekly "Tool Box" safety meetings with the entire crew. Monthly managers safety meetings were also performed. There were no lost time accidents during the contract period.

16. The contractor was efficient, professional and cooperative in the performance of the contract work. Quality control activities were maintained throughout the life of the contract.

David Beadle  
Quality Assurance Representative

CF:

Proj. Engr. (Gremillion)

Proj. Insp. (Beadle)

Team Leader (Morgan)

Office Engineer w/ as builds (Thurmond)

CEMVN-CD-Q

CEMVN-CT

CEMVN-ED-C

CEMVN-CD-B

CEMVN-CD-S

CEMVN-PM

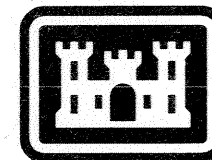


PLANS FOR  
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
ORLEANS PARISH, LA.

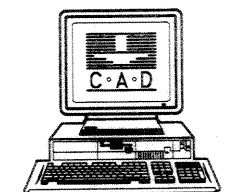
Safety is a Part  
of Your Contract

MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST AND WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE  
**AS BUILTs 2**

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

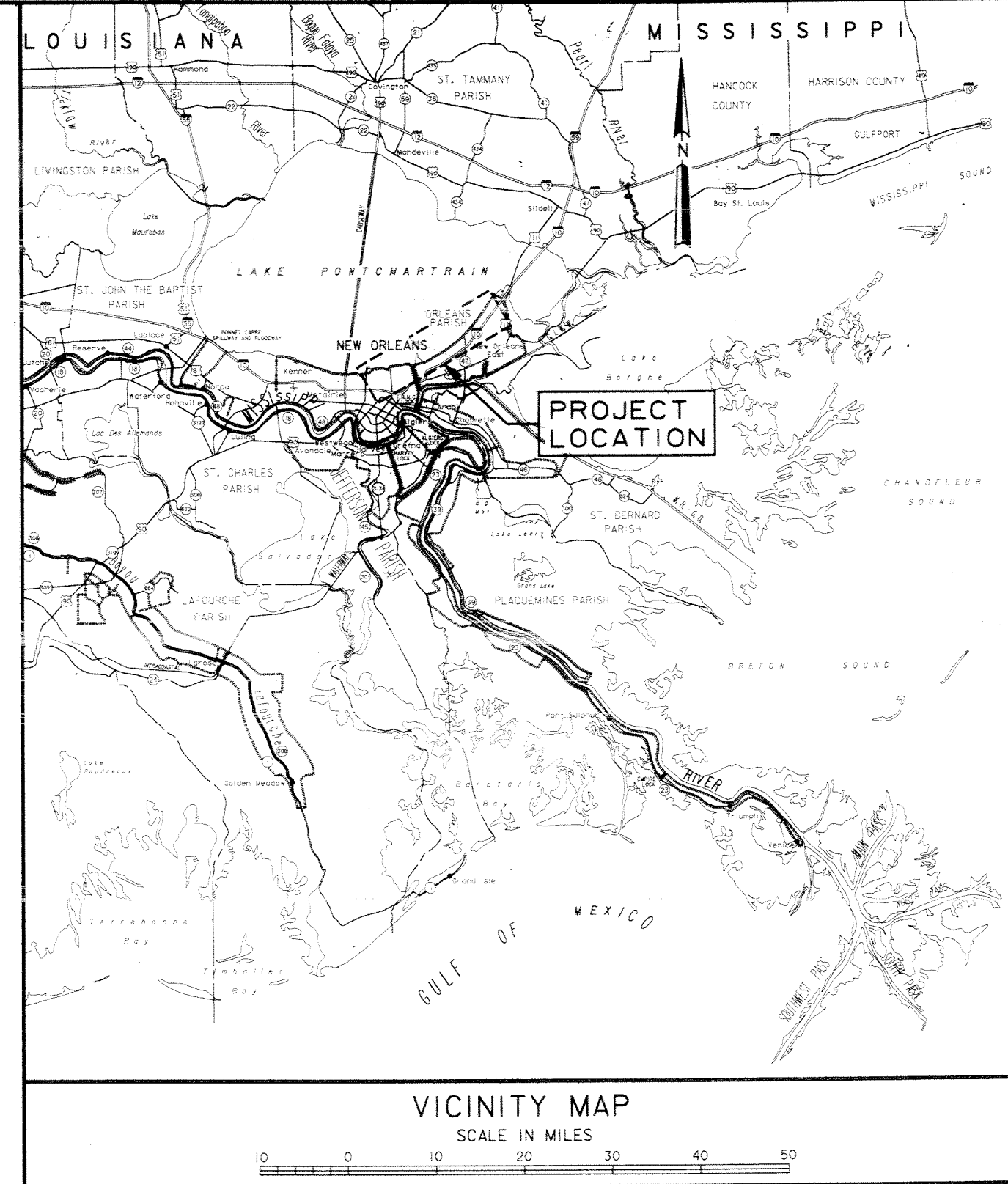
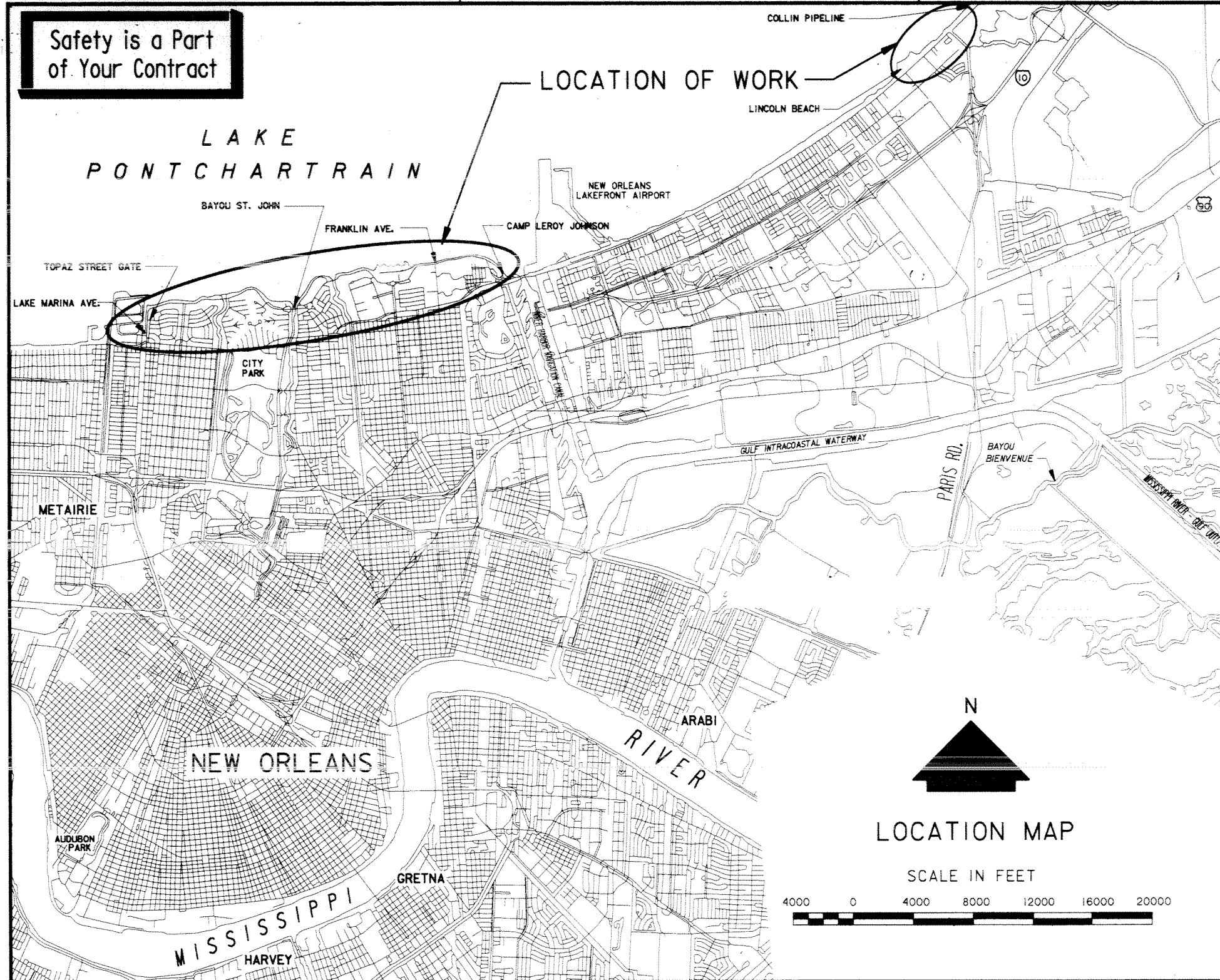


US Army Corps  
of Engineers  
New Orleans District  
1996



H-4-44577

**Safety is a Part of Your Contract**

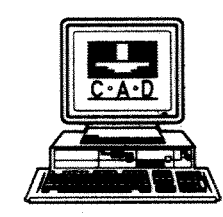


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THIS PROJECT WAS DESIGNED BY THE NEW ORLEANS DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEARING ON THESE PROJECT DOCUMENTS ARE WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

SYMBOL	DESCRIPTION	DATE	APPROVED
<b>REVISIONS</b>			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE			
<b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE			
<b>INDEX, LOCATION AND VICINITY MAP</b>			
DESIGNED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	CADD FILE: 44577P02.DGN	
DRAWN BY: L.MAGEE	APPROVED BY: <i>[Signature]</i>	PLOT DATE: DEC 97	PLOT SCALE: 4800
CHECKED BY: R.GRUBB	DATE: MARCH 97	FILE NO. H-8-44577	DWG. OF 49



I-WALL SCHEDULE

LOCATION (SEE PROFILES FOR STATIONS)	I-WALL SHAPE	CONCRETE SCHEDULE			APPROXIMATE MONOLITH LENGTH	PILE TYPE
		THICKNESS AT BASE	ARCHITECTURAL TREATMENT	CONCRETE COATING*		
LAKE MARINA AVE.	RECTANGULAR	2'-0" AND 2'-6"	BUSHHAMMER	THOROSEAL CLEAR COATING	30'-0" ±	PZ-27
TOPAZ ST. FLOODGATE	RECTANGULAR	2'-3"	BUSHHAMMER	THOROSEAL CLEAR COATING	30'-2" ±	PZ-35
BAYOU ST. JOHN	RECTANGULAR	2'-6"	BUSHHAMMER	CEMENTITIOUS PEARL GRAY COLOR	29'-6" ±	**
FRANKLIN AVE.	NECK-DOWN	2'-0"	NONE	THOROSEAL CLEAR COATING	30'-0" ±	PZ-27
CAMP LEROY JOHNSON	RECTANGULAR	2'-0"	NONE	THOROSEAL CLEAR COATING	30'-0" ±	PZ-27
LINCOLN BEACH	NECK-DOWN	2'-0"	FRACTURED FIN	THOROSEAL CLEAR COATING	30'-0" ±	PZ-27
COLLINS PIPELINE	NECK-DOWN	1'-9"	NONE	THOROSEAL CLEAR COATING	29'-4" ±	***

- \* CONTRACTOR SHALL USE THORO SYSTEM PRODUCTS CEMENTITIOUS PAINT AND COATINGS OR EQUAL TO MATCH THE COLOR AND TEXTURE OF THE EXISTING CONCRETE COATING OF THE EXISTING ADJACENT FLOODWALL.
- \*\* ARBED - BU32 STEEL SHEET PILING
- \*\*\* SYRO - COLD ROLLED SHEET PILING

BONDING NOTES :

\*#6 REINFORCING BAR TO BE WELDED TO THE TOP OF EACH STEEL SHEET PILE.  
 \*#6 REINFORCING BAR SHALL NOT EXTEND ACROSS THE MONOLITH JOINT.  
 INSTALL FLEXIBLE JUMPER AT ALL I-WALL JOINTS AND AT TRANSITION FROM T-WALL TO I-WALL JOINT.  
 JUMPERS SHALL BE INSULATED NO. 1/0 AWG COPPER, TYPE USE, INSULATED WITH A MINIMUM OF 95 MILS OF CROSS LINKED POLYETHYLENE IN AN 8" Ø LOOP.  
 JUMPERS SHALL BE WELDED AS SPECIFIED TO ADJACENT STEEL PILES 7" BELOW BOTTOM OF CONCRETE CAP FOR I-WALL JOINTS AND AT TRANSITION FROM T-WALL TO I-WALL JOINT.  
 WELDED CONNECTIONS SHALL BE COATED WITH EPOXY TO OBTAIN MOISTURE PROOF JOINT. SEE SPECIFICATIONS.  
 SPLICING OF #6 REINFORCING BAR WILL NOT BE ALLOWED.

ABBREVIATIONS

- ALT. SP. = ALTERNATE SPACING
- AZ = AZIMUTH
- B/L = BASELINE
- BF = BOTTOM FACE
- BL = BOTTOM LAYER
- C = CENTER
- CB = CATCH BASIN
- C.I. = CAST IRON
- CJ = CONSTRUCTION JOINT
- CL = CLEAR COVER
- C/L OR C = CENTER LINE
- C.R.S. = CORROSION RESISTANT STEEL
- Ø = DIAMETER
- D = DRAIN
- D.I. = DROP INLET
- D.P. = DRAIN PIPE
- D/S = DOWN STREAM
- D.V. = DRAIN VALVE
- D.V. MH. = DRAIN VALVE MANHOLE
- E = ELECTRICAL
- EF = EACH FACE
- EL. = ELEVATION
- ES = EQUALLY SPACED
- F.H. = FIRE HYDRANT
- FF = FAR FACE
- G = GAS
- H.S. = HIGH STRENGTH
- LP = LIGHT POLE
- LS = LIGHT STANDARD
- MH = MANHOLE
- NF = NEAR FACE
- O.C. = ON CENTER
- OPT. = OPTIONAL
- P = POWER
- P.C. = POINT OF CURVATURE
- P.T. = POINT OF TANGENCY
- S = SEWER
- SB/L = SUBBASELINE
- S.C.O. = SEWER CLEANOUT
- STD. HK. = STANDARD HOOK
- STA. = STATION
- T = TELEPHONE
- TD = TRENCH DRAIN
- TF = TOP FACE
- TEL.M.H. = TELEPHONE MANHOLE
- TL = TOP LAYER
- TP = TEST PILE
- U/S = UP STREAM
- W = WATER
- W/L = WALL LINE
- W.M. = WATER METER
- W.V. = WATER VALVE
- C/E = CONSTRUCTION EASEMENT
- EBLA = EAST BANK LEVEE ALINEMENT
- WBLA = WEST BANK LEVEE ALINEMENT

CONCRETE NOTES:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F<sub>c</sub>) OF 3000 PSI AT 28 DAYS, 90 DAYS IF POZZOLAN IS USED, UNLESS OTHERWISE NOTED.
- STABILIZATION SLAB CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F<sub>c</sub>) OF 2500 PSI AT 28 DAYS, 90 DAYS IF POZZOLAN IS USED.
- REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH (F<sub>y</sub>) OF 60,000 PSI AND SHALL MEET THE REQUIREMENTS OF ASTM 615.
- REINFORCING SHALL BE SPACED TO MISS RECESSES FOR GATE LATCHES.
- CONSTRUCTION JOINTS SHALL BE PROVIDED WHERE SHOWN. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE PLACED AT LOCATIONS LEAST LIKELY TO IMPAIR THE INTEGRITY OF THE CONCRETE STRUCTURE. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE CONTRACTING OFFICER.
- UNLESS OTHERWISE NOTED, PROVIDE 3/4" CHAMFER AT ALL EXPOSED JOINTS, EDGES, EXTERNAL CORNERS, AND VERTICAL EXPANSION JOINTS.
- REINFORCEMENT SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM 615.
- ALL PRIMARY REINFORCEMENT SHALL HAVE A MINIMUM COVER OF 3" UNLESS OTHERWISE NOTED. THE COVER FOR SECONDARY REINFORCEMENT MAY BE REDUCED FROM THE ABOVE BY THE DIAMETER OF THE BAR.
- ALL BENDS OF REINFORCEMENT AND ALL BAR SPACERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SP-66, AMERICAN CONCRETE INSTITUTE DETAILING MANUAL - 1980.
- REINFORCING BAR DESIGNATION NUMBERS CONFORM TO THE NUMBERING SYSTEM OF THE CONCRETE REINFORCING STEEL INSTITUTE.
- REINFORCING BARS SHALL BE CONTINUOUS AT ALL CORNERS UNLESS OTHERWISE NOTED.
- REINFORCEMENT, WHERE NECESSARY TO AVOID OPENINGS, PIPES, EMBEDDED ITEMS AND OTHER OBSTRUCTIONS, SHALL BE BENT OR SHIFTED AS DIRECTED BY THE CONTRACTING OFFICER.
- THE EMBEDMENT AND SPLICE TABLE SHALL BE USED IN DETERMINING LAP SPLICES AND EMBEDMENT LENGTHS WHERE LENGTHS ARE NOT OTHERWISE INDICATED. SPLICE LENGTHS SHALL BE BASED ON THE SMALLER BAR BEING LAPPED. THE CONTRACTOR WILL BE ALLOWED TO MAKE SPLICES IN ADDITION TO THOSE INDICATED IN THE DRAWINGS, WHERE ESSENTIAL TO CONSTRUCTIBILITY, SUBJECT TO APPROVAL BY THE CONTRACTING OFFICER. SPLICES OTHER THAN THOSE SHOWN ON THE DRAWINGS AND OTHER THAN ANY ADDITIONAL SPLICES REQUIRED BY THE CONTRACTING OFFICER, WILL BE AT THE CONTRACTOR'S EXPENSE.
- ALL EXTERIOR FORMED SURFACES NOT COVERED BY BACKFILL SHALL BE CLASS "A" FINISH AND SURFACES COVERED BY BACKFILL SHALL BE CLASS "D" FINISH, UNLESS OTHERWISE NOTED.

GENERAL NOTES:

- AZIMUTHS SHOWN ARE MEASURED CLOCKWISE FROM THE SOUTH.
- ELEVATIONS ARE IN FEET AND REFER TO NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.).
- DIMENSIONS AND/OR ELEVATIONS MARKED THUS (±) ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD.
- DIMENSIONS AND/OR ELEVATIONS MARKED THUS (N.T.S.) ARE NOT SHOWN TO SCALE.
- DRAWINGS ARE GENERALLY TO SCALE, BUT SHOULD NOT BE SCALED. N.T.S. IS SHOWN ONLY WHERE DRAWING IS OBVIOUSLY OUT OF SCALE.
- BENCH MARKS AND BASE LINES HAVE BEEN ESTABLISHED AT THE SITE BY THE GOVERNMENT.

STEEL NOTES:

- ALL WELDING SHALL BE ELECTRIC WELDING. WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (SEE SPECS.) STRUCTURAL WELDING CODE.
- WELDING SYMBOLS SHOWN ARE THOSE ADOPTED BY THE AMERICAN WELDING SOCIETY AND INDICATE ONLY SIZE AND TYPE OF WELDS REQUIRED. DETAILED INFORMATION SHALL BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL.
- DIMENSIONS SHOWN OR CALLED FOR ARE THE FINAL DIMENSIONS; ALLOWANCES MUST BE MADE FOR MACHINING.
- ITEMS MARKED C.R.S. SHALL BE CORROSION RESISTANT STEEL (STAINLESS STEEL), SEE SPECIFICATIONS.

SHEET PILE NOTES

- HOLES CUT IN STEEL SHEET PILING FOR PASSING REINFORCING BARS SHALL NOT EXCEED 2" Ø. WHERE HOLES FALL WITHIN THE WEB OF THE STEEL SHEET PILE, THE HOLE SHALL BE SLOTTED 4" HORIZONTALLY TO ACCOMMODATE PASSING THE REINFORCING BARS.
- ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL.

BENCH MARK TABLE		
DESIGNATION	DESCRIPTION	ELEVATION
V-149	AT NEW ORLEANS, AT JUNCTION OF LAKESHORE DRIVE AND MARCONI DRIVE, SET IN THE TOP OF THE EAST END OF THE SOUTH CONCRETE WALK OF LAKESHORE DRIVE BRIDGE OVER ORLEANS CANAL, DIRECTLY OVER THE EAST ABUTMENT OF BRIDGE, 1' SOUTH OF THE BRIDGE, 175' WEST OF THE CENTER OF THE JUNCTION AND ABOUT 6" ABOVE THE BRIDGE FLOOR.	EL. 11.03 N.G.V.D. EPOCH: PRE-1983
NORTH GATE 2 RM 3 1966	LOCATED IN THE NORTHWEST SECTION OF NEW ORLEANS, AT WEST END NEAR THE LAKE FRONT, BETWEEN PONTCHARTRAIN BLVD. AND WEST END BLVD. JUST NORTH OF ROBERT E. LEE BLVD., AT THE NEW ORLEANS SEWERAGE AND WATER BOARD PUMPING STATION NO. 12. IT IS 27.82 FEET SOUTH OF TRIANGULATION STATION N GATE 2 1966. ONE (1) FOOT NORTH OF THE NORTHEAST CORNER OF THE STAIRS 4 FEET EAST OF THE WEST RAIL OF THE HOIST. IT IS A STANDARD REFERENCE MARK DISK SET IN A DRILLED HOLE IN THE CONCRETE DECKING OF THE PUMPING STATION.	11.478 N.G.V.D. EPOCH: 1964
JEWETT	ABOUT .85 MILES NORTHWEST ALONG LAKESHORE DRIVE FROM THE BRIDGE OVER I.H.N.C., ABOUT .55 MILES EAST OF THE JUNCTION OF FRANKLIN AVE., SET IN TOP OF THE SEAWALL ALONG LAKE PONTCHARTRAIN, 55' NORTH OF THE CENTERLINE OF LAKESHORE DRIVE, 77.6' NORTHWEST OF STREET LIGHT POST NO. 632. ABOUT 2' ABOVE THE DRIVE AND 98.7' NORTHEAST OF STREET LIGHT POST 246	EL. 7.4 N.G.V.D. EPOCH: PRE-1983
S-3	STANDARD DISK ON 1" BLACK PIPE, WITH CAP COUNTERSUNK 0.4", MARKER IS AT APPROXIMATE LEVEE STATION 330+14, WEST OF PROJECTED INTERSECTION OF PARIS ROAD AND RAILROAD TRACKS, 150' NORTH OF CENTERLINE OF HAYNES BLVD.	EL. 7.35 N.G.V.D. EPOCH: PRE-1983

BAR SIZE	REINFORCEMENT EMBEDMENT AND SPLICE TABLE						
	BASIC TABLE		ALTERNATE TABLE				
	MINIMUM EMBEDMENT LENGTH, INCHES	MINIMUM LAP LENGTH INCHES	MINIMUM EMBEDMENT LENGTH, INCHES	MINIMUM LAP LENGTH INCHES			
	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
3	12	21	16	16	12	21	16
4	16	28	21	21	16	28	21
5	21	35	27	27	21	35	27
6	25	42	32	32	25	42	32
7	29	49	37	37	29	49	37
8	35	59	45	43	33	56	43
9	44	74	57	48	37	63	48
10	56	94	72	58	45	75	58
11	68	116	89	71	55	92	71

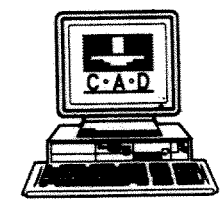
USE THE BASIC TABLE IF ALL OF THE FOLLOWING CONDITIONS ARE MET:  
 A) CENTER TO CENTER BAR SPACING LATERALLY IS AT LEAST 4 BAR DIAMETERS  
 B) CONCRETE COVER IS AT LEAST 2 BAR DIAMETERS, AND  
 C) EDGE DISTANCE TO THE FIRST BAR IN A LAYER IS AT LEAST 2 BAR DIAMETERS.

THE ALTERNATE TABLE MAY BE USED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:  
 A) CENTER TO CENTER BAR SPACING LATERALLY IS AT LEAST 6 BAR DIAMETERS  
 B) CONCRETE COVER IS AT LEAST 2 BAR DIAMETERS, AND  
 C) EDGE DISTANCE TO THE FIRST BAR IN A LAYER IS AT LEAST 2.5 BAR DIAMETERS.

IF CONCRETE COVER OR EDGE DISTANCE IS LESS THAN 2 BAR DIAMETERS OR THE CENTER TO CENTER BAR SPACING LATERALLY IS LESS THAN 4 DIAMETERS, SEE ACI 318 FOR APPROPRIATE GUIDANCE.

TOP BARS ARE HORIZONTAL BARS AND BARS INCLINED LESS THAN 45 DEGREES WITH RESPECT TO A HORIZONTAL PLANE WHICH ARE PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

THE TABLES SHOWN ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND UNCOATED REINFORCING BARS. IF LIGHTWEIGHT CONCRETE OR EPOXY COATED BARS ARE USED, SEE ACI 318 FOR ADDITIONAL CONSIDERATIONS.



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>GENERAL NOTES</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 1	PLOT DATE: DEC 97
DRAWN BY: L.MACEE	CADD FILE: 44577P02.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 2 OF 49
DESIGN ENGINEER			

I-WALL SCHEDULE A						
LOCATION (SEE PROFILES FOR STATIONS)	I-WALL SHAPE	CONCRETE SCHEDULE			APPROXIMATE MONOLITH LENGTH	PILE TYPE
		THICKNESS AT BASE	ARCHITECTURAL TREATMENT	CONCRETE COATING*		
LAKE MARINA AVE.	RECTANGULAR	2'-0" AND 2'-8"	BUSHHAMMER	THORSEAL CLEAR COATING	30'-0" ±	PZ-27
TOPAZ ST. FLOODGATE	RECTANGULAR	2'-3"	BUSHHAMMER	THORSEAL CLEAR COATING	30'-2" ±	PZ-35
BAYOU ST. JOHN	RECTANGULAR	2'-8"	BUSHHAMMER	CEMENTITIOUS PEARL GRAY COLOR	29'-8" ±	**
FRANKLIN AVE.	NECK-DOWN	2'-0"	NONE	THORSEAL CLEAR COATING	30'-0" ±	PZ-27
CAMP LEROY JOHNSON	RECTANGULAR	2'-0"	NONE	THORSEAL CLEAR COATING	30'-0" ±	PZ-27
LINCOLN BEACH	NECK-DOWN	2'-0"	FRACTURED FIN	THORSEAL CLEAR COATING	30'-0" ±	PZ-27
COLLINS PIPELINE	NECK-DOWN	2'-8"	NONE	THORSEAL CLEAR COATING	30'-0" ±	PZ-3000
	RECTANGULAR	2'-2"	NONE	CLEAR COATING THORSEAL	17'-8" ±	FZ-7000

- \* CONTRACTOR SHALL USE THORO SYSTEM PRODUCTS CEMENTITIOUS PAINT AND COATINGS OR EQUAL TO MATCH THE COLOR AND TEXTURE OF THE EXISTING CONCRETE COATING OF THE EXISTING ADJACENT FLOODWALL.
- \*\* ARBED - BLUZ STEEL SHEET PILING
- \*\*\* FOSTER - COLD ROLLED SHEET PILING

**BONDING NOTES :**

#6 REINFORCING BAR TO BE WELDED TO THE TOP OF EACH STEEL SHEET PILE. #6 REINFORCING BAR SHALL NOT EXTEND ACROSS THE MONOLITH JOINT. INSTALL FLEXIBLE JUMPER AT ALL I-WALL JOINTS AND AT TRANSITION FROM T-WALL TO I-WALL JOINT. JUMPERS SHALL BE INSULATED NO. 1/0 AWG COPPER, TYPE USE, INSULATED WITH A MINIMUM OF 95 MILS OF CROSS LINKED POLYETHYLENE IN AN 8" Ø LOOP. JUMPERS SHALL BE WELDED AS SPECIFIED TO ADJACENT STEEL PILES 7" BELOW BOTTOM OF CONCRETE CAP FOR I-WALL JOINTS AND AT TRANSITION FROM T-WALL TO I-WALL JOINT. WELDED CONNECTIONS SHALL BE COATED WITH EPOXY TO OBTAIN MOISTURE PROOF JOINT. SEE SPECIFICATIONS.

SPlicing OF #6 REINFORCING BAR WILL NOT BE ALLOWED.

BENCH MARK TABLE		
DESIGNATION	DESCRIPTION	ELEVATION
V-149	AT NEW ORLEANS, AT JUNCTION OF LAKESHORE DRIVE AND MARCONI DRIVE, SET IN THE TOP OF THE EAST END OF THE SOUTH CONCRETE WALK OF LAKESHORE DRIVE BRIDGE OVER ORLEANS CANAL, DIRECTLY OVER THE EAST ABUTMENT OF BRIDGE, 1' SOUTH OF THE BRIDGE, 175' WEST OF THE CENTER OF THE JUNCTION AND ABOUT 8" ABOVE THE BRIDGE FLOOR.	EL. 11.03 N.G.V.D. EPOCH 4 PRE-1983
NORTH GATE 2 RM 3 1986	LOCATED IN THE NORTHWEST SECTION OF NEW ORLEANS, AT WEST END NEAR THE LAKE FRONT, BETWEEN PONTCHARTRAIN BLVD. AND WEST END BLVD. JUST NORTH OF ROBERT E. LEE BLVD., AT THE NEW ORLEANS SEWERAGE AND WATER BOARD PUMPING STATION NO. 12. IT IS 27.82 FEET SOUTH OF TRIANGULATION STATION N GATE 2 1986. ONE (1) FOOT NORTH OF THE NORTHEAST CORNER OF THE STAIRS 4 FEET EAST OF THE WEST RAIL OF THE HOIST. IT IS A STANDARD REFERENCE MARK DISK SET IN A DRILLED HOLE IN THE CONCRETE DECKING OF THE PUMPING STATION.	11.478 N.G.V.D. EPOCH 4 1984
JEWETT	ABOUT .86 MILES NORTHWEST ALONG LAKESHORE DRIVE FROM THE BRIDGE OVER I.H.N.C., ABOUT .55 MILES EAST OF THE JUNCTION OF FRANKLIN AVE., SET IN TOP OF THE SEAWALL ALONG LAKE PONTCHARTRAIN, 55' NORTH OF THE CENTERLINE OF LAKESHORE DRIVE, 77.8' NORTHWEST OF STREET LIGHT POST NO. 832, ABOUT 2' ABOVE THE DRIVE AND 98.7' NORTHEAST OF STREET LIGHT POST 246	EL. 7.4 N.G.V.D. EPOCH 4 PRE-1983
S-3	STANDARD DISK ON 1" BLACK PIPE, WITH CAP COUNTERSUNK 0.4". MARKER IS AT APPROXIMATE LEVEE STATION 330+14, WEST OF PROJECTED INTERSECTION OF PARIS ROAD AND RAILROAD TRACKS, 150' NORTH OF CENTERLINE OF HAYNES BLVD.	EL. 7.35 N.G.V.D. EPOCH 4 PRE-1983

**ABBREVIATIONS**

- ALT. SP. = ALTERNATE SPACING
- AZ = AZIMUTH
- B/L = BASELINE
- BF = BOTTOM FACE
- BL = BOTTOM LAYER
- C = CENTER
- CB = CATCH BASIN
- C.I. = CAST IRON
- CJ = CONSTRUCTION JOINT
- CL = CLEAR COVER
- C/L OR C/E = CENTER LINE
- C.R.S. = CORROSION RESISTANT STEEL
- Ø = DIAMETER
- D = DRAIN
- D.I. = DROP INLET
- D.P. = DRAIN PIPE
- D/S = DOWN STREAM
- D.V. = DRAIN VALVE
- D.V. MH. = DRAIN VALVE MANHOLE
- E = ELECTRICAL
- EF = EACH FACE
- EL = ELEVATION
- ES = EQUALLY SPACED
- F.H. = FIRE HYDRANT
- FF = FAR FACE
- G = GAS
- H.S. = HIGH STRENGTH
- LP = LIGHT POLE
- LS = LIGHT STANDARD
- MH = MANHOLE
- NF = NEAR FACE
- O.C. = ON CENTER
- O.P.T. = OPTIONAL
- P = POWER
- P.C. = POINT OF CURVATURE
- P.T. = POINT OF TANGENCY
- S = SEWER
- SB/L = SUBBASELINE
- S.C.O. = SEWER CLEANOUT
- STD. MK. = STANDARD HOOK
- STA. = STATION
- T = TELEPHONE
- TD = TRENCH DRAIN
- TF = TOP FACE
- TEL.M.H. = TELEPHONE MANHOLE
- TL = TOP LAYER
- TP = TEST PILE
- U/S = UP STREAM
- W = WATER
- W/L = WALL LINE
- W.M. = WATER METER
- W.V. = WATER VALVE
- C/E = CONSTRUCTION EASEMENT
- EBLA = EAST BANK LEVEE ALIGNMENT
- WBLA = WEST BANK LEVEE ALIGNMENT

**CONCRETE NOTES:**

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F<sub>c</sub>) OF 3000 PSI AT 28 DAYS, 90 DAYS IF POZZOLAN IS USED, UNLESS OTHERWISE NOTED.
- STABILIZATION SLAB CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F<sub>c</sub>) OF 2500 PSI AT 28 DAYS, 90 DAYS IF POZZOLAN IS USED.
- REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH (F<sub>y</sub>) OF 60,000 PSI AND SHALL MEET THE REQUIREMENTS OF ASTM 615.
- REINFORCING SHALL BE SPACED TO MISS RECESSES FOR GATE LATCHES.
- CONSTRUCTION JOINTS SHALL BE PROVIDED WHERE SHOWN. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE PLACED AT LOCATIONS LEAST LIKELY TO IMPAIR THE INTEGRITY OF THE CONCRETE STRUCTURE. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE CONTRACTING OFFICER.
- UNLESS OTHERWISE NOTED, PROVIDE 3/4" CHAMFER AT ALL EXPOSED JOINTS, EDGES, EXTERNAL CORNERS, AND VERTICAL EXPANSION JOINTS.
- REINFORCEMENT SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM 615.
- ALL PRIMARY REINFORCEMENT SHALL HAVE A MINIMUM COVER OF 3" UNLESS OTHERWISE NOTED. THE COVER FOR SECONDARY REINFORCEMENT MAY BE REDUCED FROM THE ABOVE BY THE DIAMETER OF THE BAR.
- ALL BENDS OF REINFORCEMENT AND ALL BAR SPACERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SP-88, AMERICAN CONCRETE INSTITUTE DETAILING MANUAL - 1980.
- REINFORCING BAR DESIGNATION NUMBERS CONFORM TO THE NUMBERING SYSTEM OF THE CONCRETE REINFORCING STEEL INSTITUTE.
- REINFORCING BARS SHALL BE CONTINUOUS AT ALL CORNERS UNLESS OTHERWISE NOTED.
- REINFORCEMENT, WHERE NECESSARY TO AVOID OPENINGS, PIPES, EMBEDDED ITEMS AND OTHER OBSTRUCTIONS, SHALL BE BENT OR SHIFTED AS DIRECTED BY THE CONTRACTING OFFICER.
- THE EMBEDMENT AND SPLICE TABLE SHALL BE USED IN DETERMINING LAP SPLICES AND EMBEDMENT LENGTHS WHERE LENGTHS ARE NOT OTHERWISE INDICATED. SPLICE LENGTHS SHALL BE BASED ON THE SMALLER BAR BEING LAPPED. THE CONTRACTOR WILL BE ALLOWED TO MAKE SPLICES IN ADDITION TO THOSE INDICATED IN THE DRAWINGS, WHERE ESSENTIAL TO CONSTRUCTIBILITY, SUBJECT TO APPROVAL BY THE CONTRACTING OFFICER. SPLICES OTHER THAN THOSE SHOWN ON THE DRAWINGS AND OTHER THAN ANY ADDITIONAL SPLICES REQUIRED BY THE CONTRACTING OFFICER, WILL BE AT THE CONTRACTOR'S EXPENSE.
- ALL EXTERIOR FORMED SURFACES NOT COVERED BY BACKFILL SHALL BE CLASS "A" FINISH AND SURFACES COVERED BY BACKFILL SHALL BE CLASS "D" FINISH, UNLESS OTHERWISE NOTED.

BAR SIZE	REINFORCEMENT EMBEDMENT AND SPLICE TABLES							
	BASIC TABLE				ALTERNATE TABLE			
	MINIMUM EMBEDMENT LENGTH, INCHES	MINIMUM LAP LENGTH INCHES		MINIMUM EMBEDMENT LENGTH, INCHES	MINIMUM LAP LENGTH INCHES			
	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	
3	12	21	18	18	12	21	18	
4	18	28	21	21	18	28	21	
5	21	35	27	27	21	35	27	
8	25	42	32	32	25	42	32	
7	29	49	37	37	29	49	37	
8	35	59	45	43	33	59	43	
9	44	74	57	48	37	63	48	
10	58	94	72	58	45	75	58	
11	68	116	89	71	55	92	71	

USE THE BASIC TABLE IF ALL OF THE FOLLOWING CONDITIONS ARE MET:  
 A) CENTER TO CENTER BAR SPACING LATERALLY IS AT LEAST 4 BAR DIAMETERS  
 B) CONCRETE COVER IS AT LEAST 2 BAR DIAMETERS, AND  
 C) EDGE DISTANCE TO THE FIRST BAR IN A LAYER IS AT LEAST 2 BAR DIAMETERS.

THE ALTERNATE TABLE MAY BE USED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:  
 A) CENTER TO CENTER BAR SPACING LATERALLY IS AT LEAST 6 BAR DIAMETERS  
 B) CONCRETE COVER IS AT LEAST 2 BAR DIAMETERS, AND  
 C) EDGE DISTANCE TO THE FIRST BAR IN A LAYER IS AT LEAST 2.5 BAR DIAMETERS.

IF CONCRETE COVER OR EDGE DISTANCE IS LESS THAN 2 BAR DIAMETERS OR THE CENTER TO CENTER BAR SPACING LATERALLY IS LESS THAN 4 DIAMETERS, SEE ACI 318 FOR APPROPRIATE GUIDANCE.

TOP BARS ARE HORIZONTAL BARS AND BARS INCLINED LESS THAN 45 DEGREES WITH RESPECT TO A HORIZONTAL PLANE WHICH ARE PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

THE TABLES SHOWN ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND UNCOATED REINFORCING BARS. IF LIGHTWEIGHT CONCRETE OR EPOXY COATED BARS ARE USED, SEE ACI 318 FOR ADDITIONAL CONSIDERATIONS.

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**GENERAL NOTES:**


- AZIMUTHS SHOWN ARE MEASURED CLOCKWISE FROM THE SOUTH.
- ELEVATIONS ARE IN FEET AND REFER TO NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.).
- DIMENSIONS AND/OR ELEVATIONS MARKED THUS (O.A.) ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD.
- DIMENSIONS AND/OR ELEVATIONS MARKED THUS (O.L.S.) ARE NOT SHOWN TO SCALE.
- DRAWINGS ARE GENERALLY TO SCALE, BUT SHOULD NOT BE SCALED. N.T.S. IS SHOWN ONLY WHERE DRAWING IS OBVIOUSLY OUT OF SCALE.
- BENCH MARKS AND BASE LINES HAVE BEEN ESTABLISHED AT THE SITE BY THE GOVERNMENT.

**STEEL NOTES:**

- ALL WELDING SHALL BE ELECTRIC WELDING. WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (SEE SPECS.) STRUCTURAL WELDING CODE.
- WELDING SYMBOLS SHOWN ARE THOSE ADOPTED BY THE AMERICAN WELDING SOCIETY AND INDICATE ONLY SIZE AND TYPE OF WELDS REQUIRED. DETAILED INFORMATION SHALL BE SHOWN ON THE DRAWINGS AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL.
- DIMENSIONS SHOWN OR CALLED FOR ARE THE FINAL DIMENSIONS; ALLOWANCES MUST BE MADE FOR MACHINING.
- ITEMS MARKED C.R.S. SHALL BE CORROSION RESISTANT STEEL (STAINLESS STEEL); SEE SPECIFICATIONS.

**SHEET PILE NOTES**

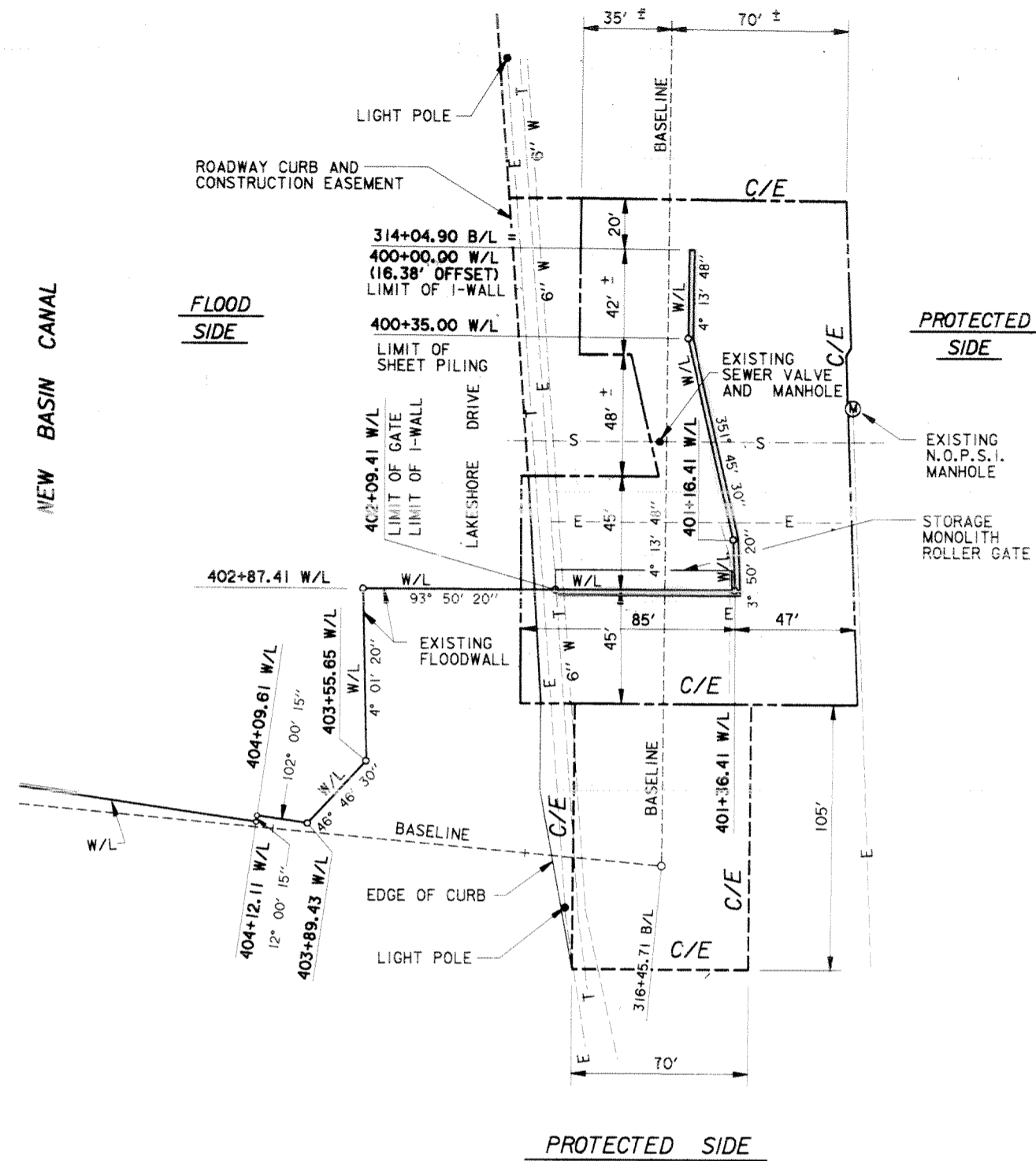
- HOLES CUT IN STEEL SHEET PILING FOR PASSING REINFORCING BARS SHALL NOT EXCEED 2" Ø, WHERE HOLES FALL WITHIN THE WEB OF THE STEEL SHEET PILE, THE HOLE SHALL BE SLOTTED 4" HORIZONTALLY TO ACCOMMODATE PASSING THE REINFORCING BARS.
- ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL.

REVISED I-WALL SCHEDULE		7-17-98	R.M.D.
SYMBOL	DESCRIPTION	DATE	APPROVED
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND MICHELT NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>GENERAL NOTES</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLAT SCALE: 1" = 10'	PLAT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CAD FILE: H8CAPPING	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	SHEET 2 OF 49	

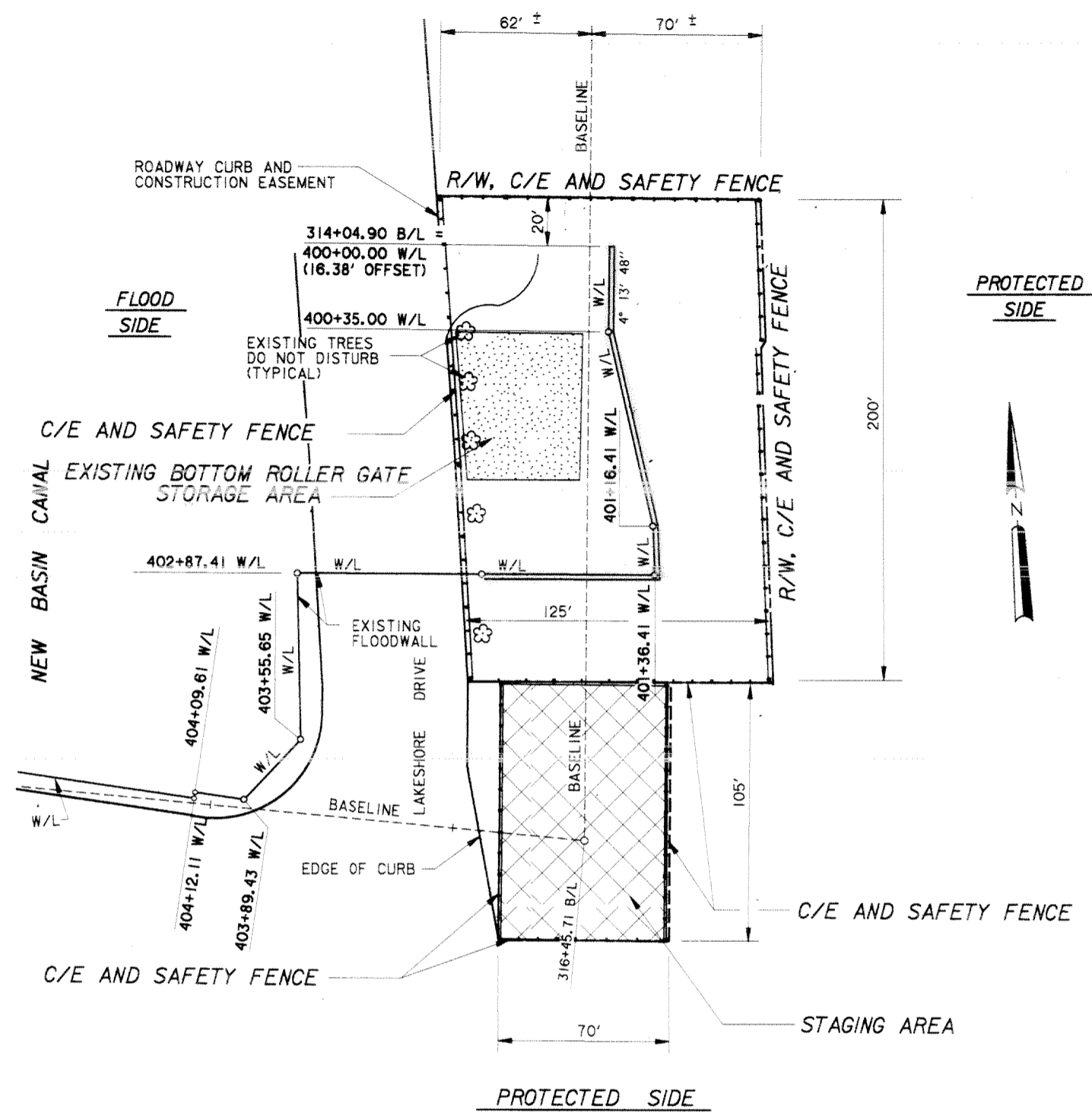




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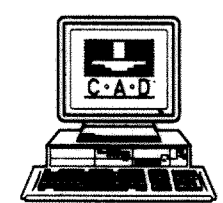
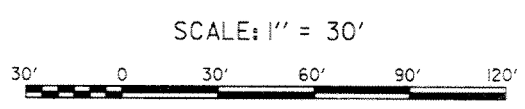
GENERAL PLAN



FENCING PLAN, STAGING AREA

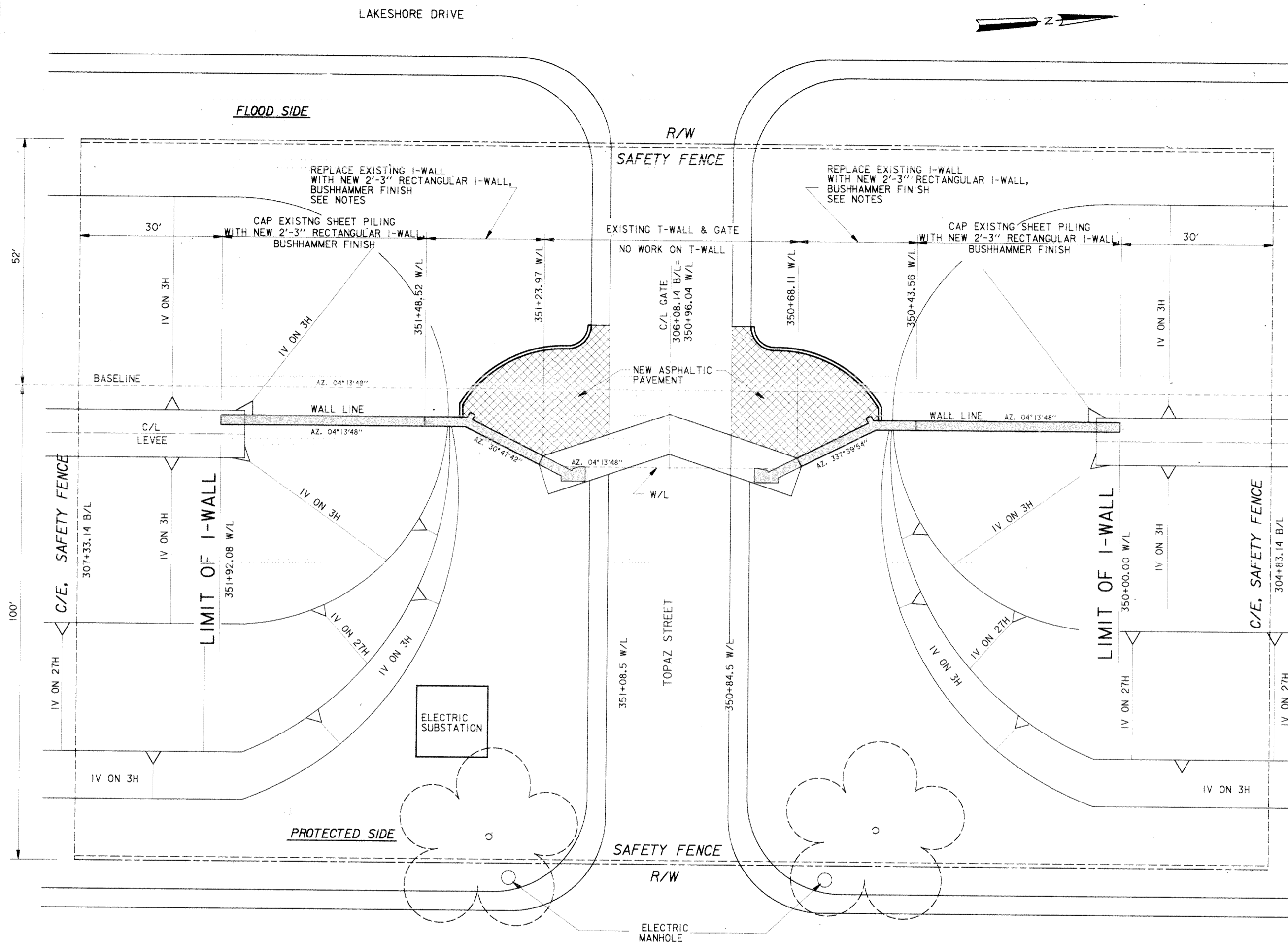
- LEGEND:
- ⊙ = EXISTING N.O.P.S.I. MANHOLE
  - ⊙ = EXISTING SEWER MANHOLE
  - S--- = EXISTING SEWER LINE
  - E--- = EXISTING ELECTRICAL LINE
  - W--- = EXISTING WATER LINE
  - T--- = EXISTING TELEPHONE CABLE

- NOTES:
- FOR SURVEYS, USE BENCHMARK "NORTH GATE 2, RM-3, 1966".
  - FOR PROFILE, SEE DWG. 13
  - FOR TYPICAL SECTIONS, SEE DWG. 14



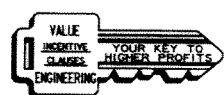
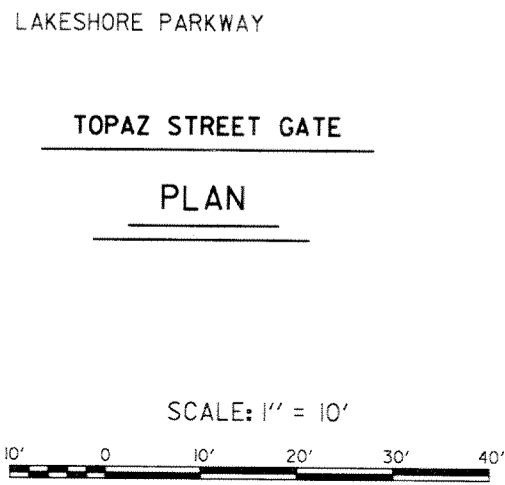
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PLAN</b> <b>VICINITY LAKE MARINA AVE.</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 360	PLOT DATE: DEC 97
DRAWN BY: L.WAGEE	CADD FILE: 44577P03.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 3 OF 49	
SUBMITTED BY: R.GRUBB DESIGN ENGINEER			

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of Your Contract**



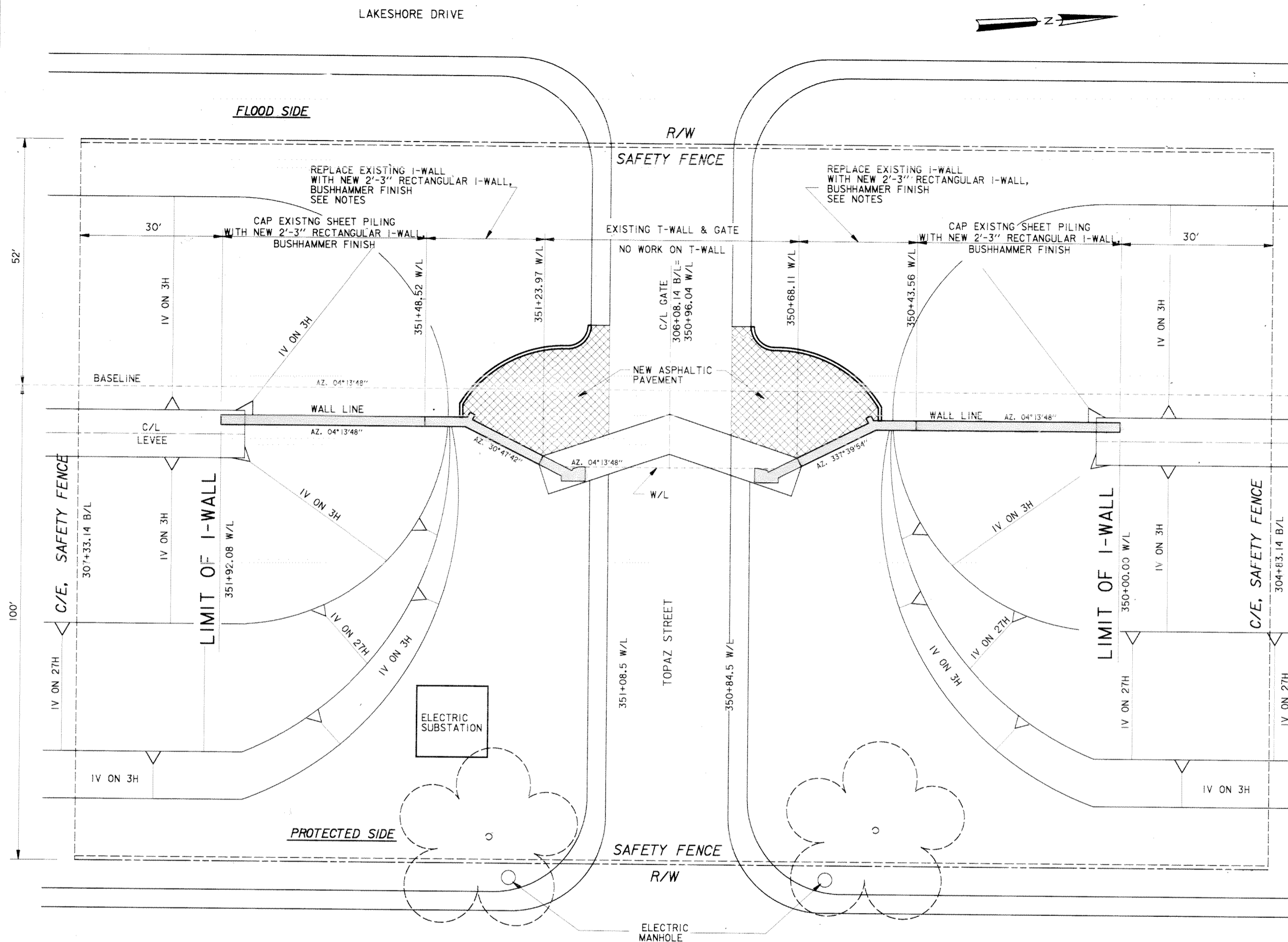
**NOTES:**

1. FOR SURVEYS, USE BENCHMARK "NORTH GATE 2, RM-3, 1966".
2. FOR PROFILE, SEE DWG. 15
3. FOR TYPICAL ROADWAY SECTIONS, SEE DWG. 40
4. DURING CONSTRUCTION THE EXISTING SWING GATES SHALL REMAIN IN PLACE, AND SHALL BE MOVED INTO THE CLOSING POSITION DURING FLOODWALL DEMOLITION AND CONSTRUCTION.
5. ANY DAMAGE TO THE EXISTING SWING GATES AND GATE SEALS RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT HIS EXPENSE.
6. EXISTING SLOPES NOT TO BE DISTURBED, UNLESS OTHERWISE INDICATED.
7. EXISTING TREES NOT TO BE DISTURBED.  
IF THE EXISTING TREES ARE DAMAGED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR, AT NO COST TO THE GOVERNMENT, SHALL REPLACE THE TREES WITH A SIMILAR SPECIES AND AGE.
8. EXISTING N.O.P.S.I. ELECTRICAL SUBSTATION SHALL NOT BE DISTURBED.  
IF THE EXISTING ELECTRICAL SUBSTATION IS DAMAGED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR, AT NO COST TO THE GOVERNMENT, SHALL REPAIR THE SUBSTATION TO PRE-CONSTRUCTION CONDITION.
9. FOR TYPICAL EXISTING IWALL SECTIONS, SEE DWG. 30.



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PLAN</b> <b>VICINITY TOPAZ STREET GATE</b>			
DESIGNED BY: R. GRUBB	DATE: MARCH 97	PLOT SCALE: 120	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CADD FILE: 44577P04.DGN	FILE NO. H-8-44577	
CHECKED BY: R. GRUBB	SUBMITTED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 4 OF 49

**Safety is a Part  
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**NOTES:**

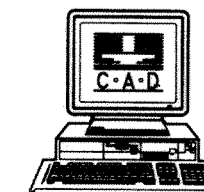
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3. FOR TYPICAL ROADWAY SECTIONS, SEE DWG. 40
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LAKESHORE PARKWAY

**TOPAZ STREET GATE**

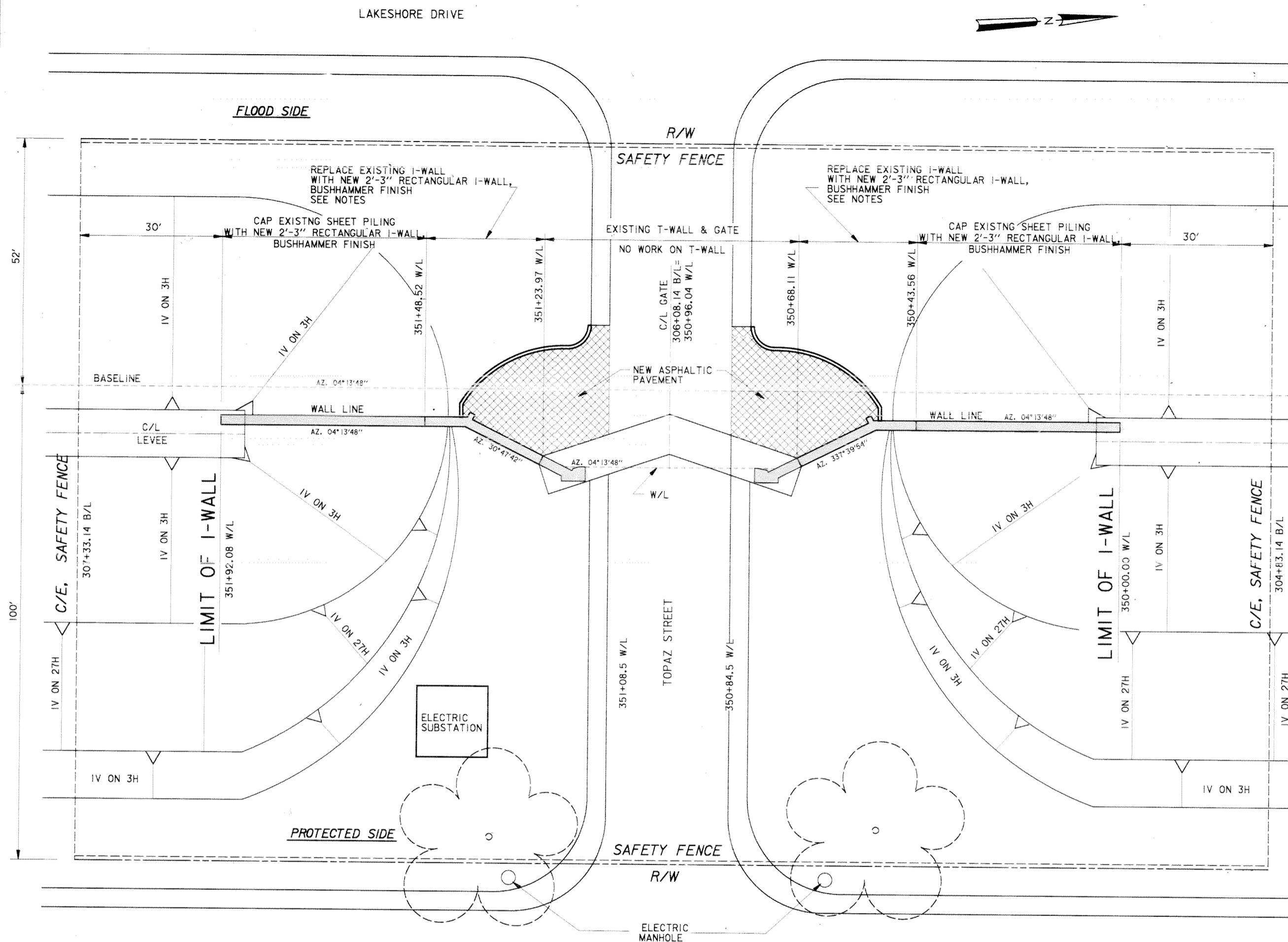
**PLAN**

SCALE: 1" = 10'



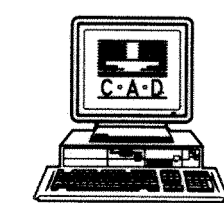
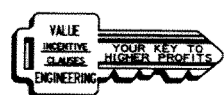
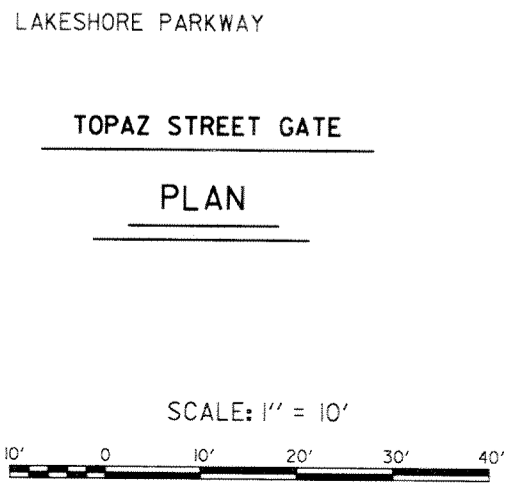
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PLAN</b> <b>VICINITY TOPAZ STREET GATE</b>			
DESIGNED BY: R. GRUBB	DATE: MARCH 97	PLOT SCALE: 120	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CADD FILE: 44577P04.DGN	FILE NO. H-8-44577	
CHECKED BY: R. GRUBB	SUBMITTED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 4 OF 49

**Safety is a Part  
of Your Contract**



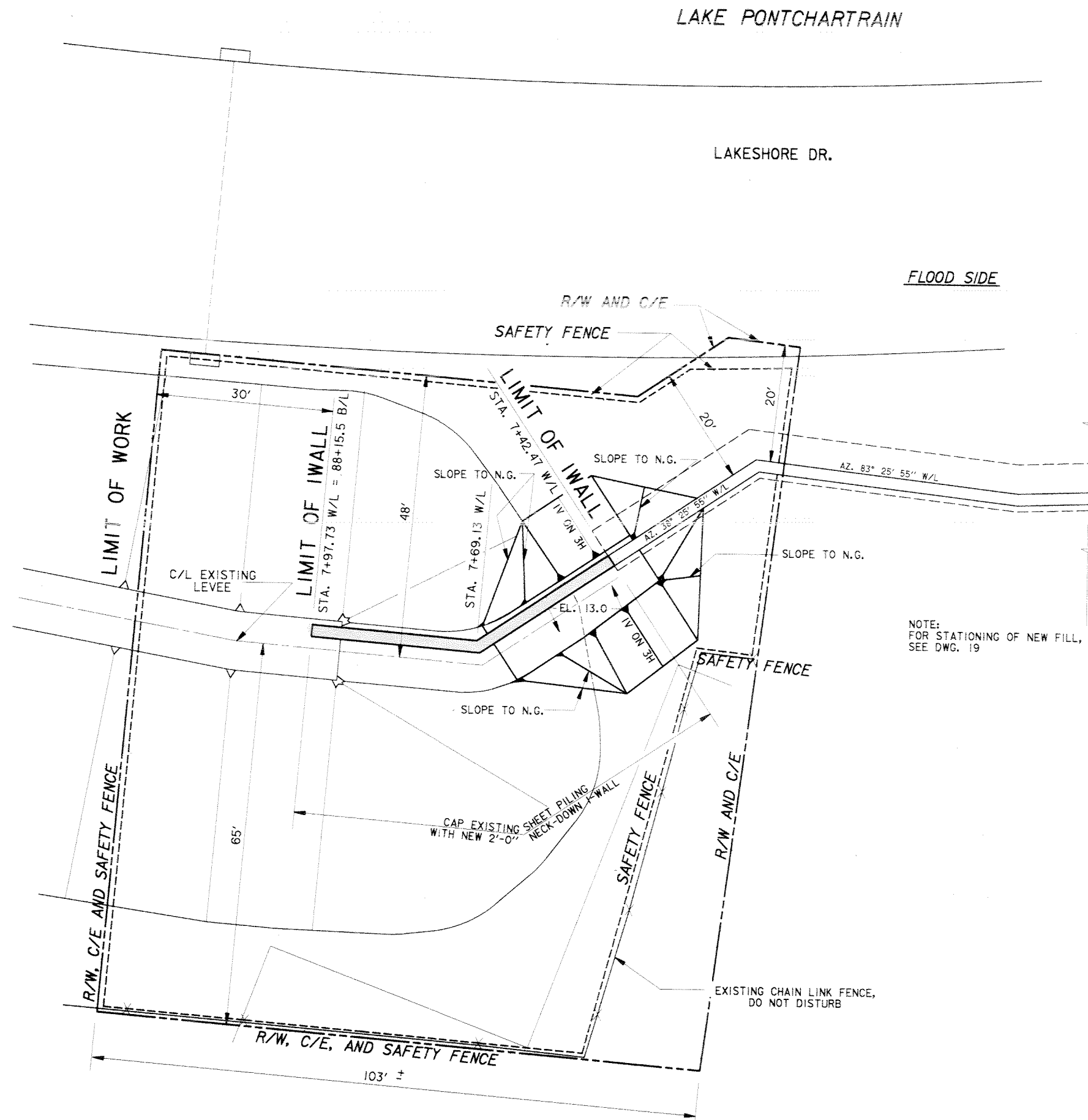
**NOTES:**

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6. EXISTING SLOPES NOT TO BE DISTURBED, UNLESS OTHERWISE INDICATED.
7. EXISTING TREES NOT TO BE DISTURBED.  
IF THE EXISTING TREES ARE DAMAGED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR, AT NO COST TO THE GOVERNMENT, SHALL REPLACE THE TREES WITH A SIMILAR SPECIES AND AGE.
8. EXISTING N.O.P.S.I. ELECTRICAL SUBSTATION SHALL NOT BE DISTURBED.  
IF THE EXISTING ELECTRICAL SUBSTATION IS DAMAGED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR, AT NO COST TO THE GOVERNMENT, SHALL REPAIR THE SUBSTATION TO PRE-CONSTRUCTION CONDITION.
9. FOR TYPICAL EXISTING IWALL SECTIONS, SEE DWG. 30.



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PLAN</b> <b>VICINITY TOPAZ STREET GATE</b>			
DESIGNED BY: R. GRUBB	DATE: MARCH 97	PLOT SCALE: 120	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CADD FILE: 44577P04.DGN	FILE NO. H-8-44577	
CHECKED BY: R. GRUBB	SUBMITTED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 4 OF 49

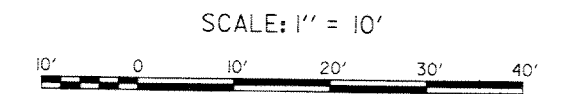
Safety is a Part of Your Contract



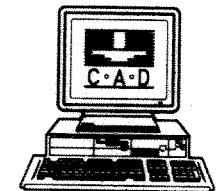
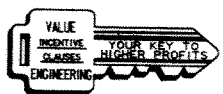
FLOOD SIDE


NOTE:  
FOR STATIONING OF NEW FILL,  
SEE DWG. 19

- NOTES:
1. FOR SURVEYS, USE BENCHMARK "JEWETT".
  2. FOR PROFILE, SEE DWG. 19
  3. EXISTING SLOPES NOT TO BE DISTURBED, UNLESS OTHERWISE INDICATED.

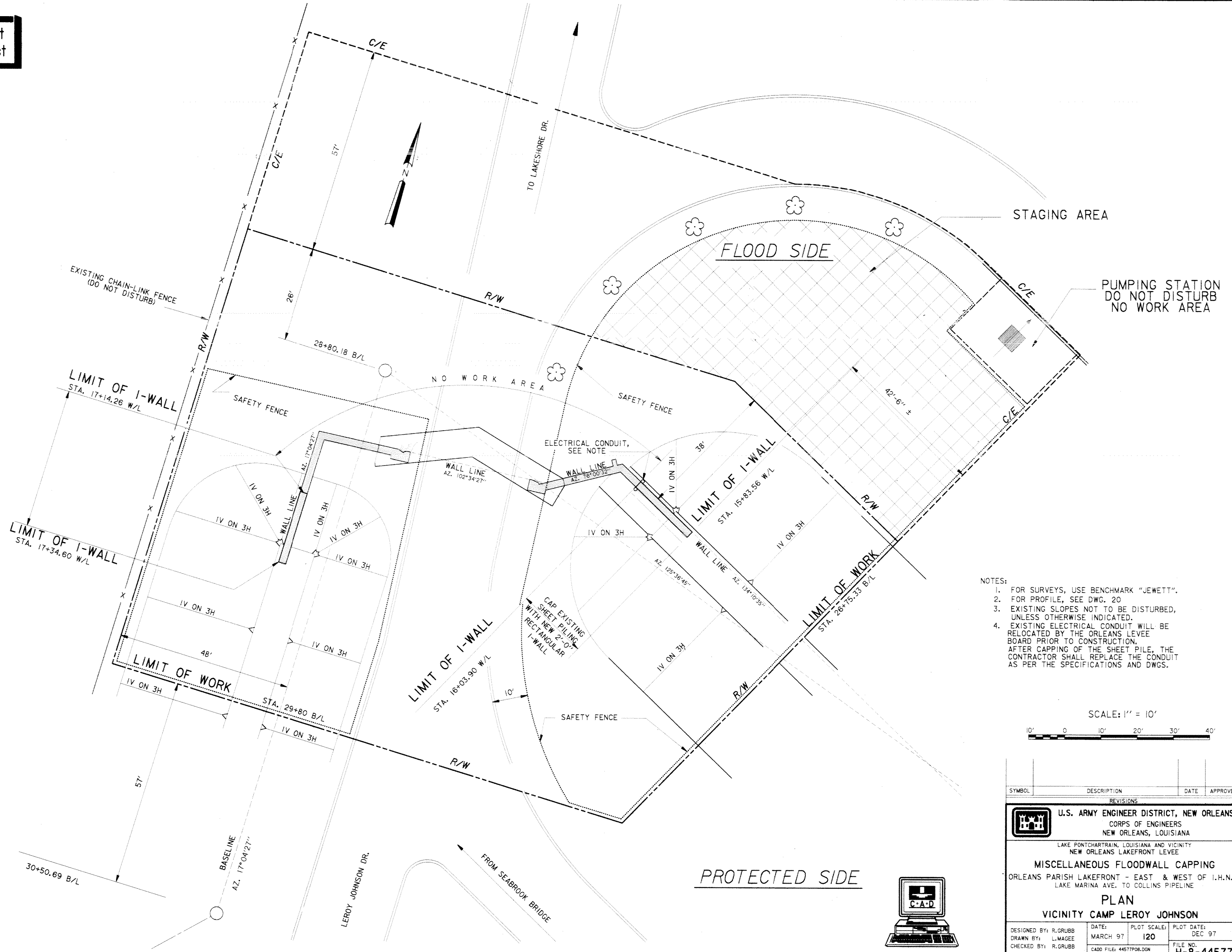


**PLAN**  
VICINITY FRANKLIN AVE.

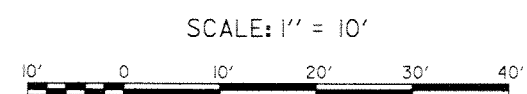



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE			
<b>PLAN</b>			
<b>VICINITY FRANKLIN AVE.</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 120	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 44577POT.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-C-0075	DESIGN ENGINEER	DWG. 7 of 49

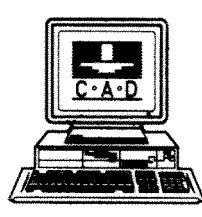
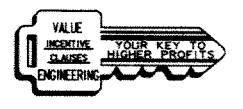
**Safety is a Part  
of Your Contract**



- NOTES:
1. FOR SURVEYS, USE BENCHMARK "JEWETT".
  2. FOR PROFILE, SEE DWG. 20
  3. EXISTING SLOPES NOT TO BE DISTURBED, UNLESS OTHERWISE INDICATED.
  4. EXISTING ELECTRICAL CONDUIT WILL BE RELOCATED BY THE ORLEANS LEVEE BOARD PRIOR TO CONSTRUCTION. AFTER CAPPING OF THE SHEET PILE, THE CONTRACTOR SHALL REPLACE THE CONDUIT AS PER THE SPECIFICATIONS AND DWGS.

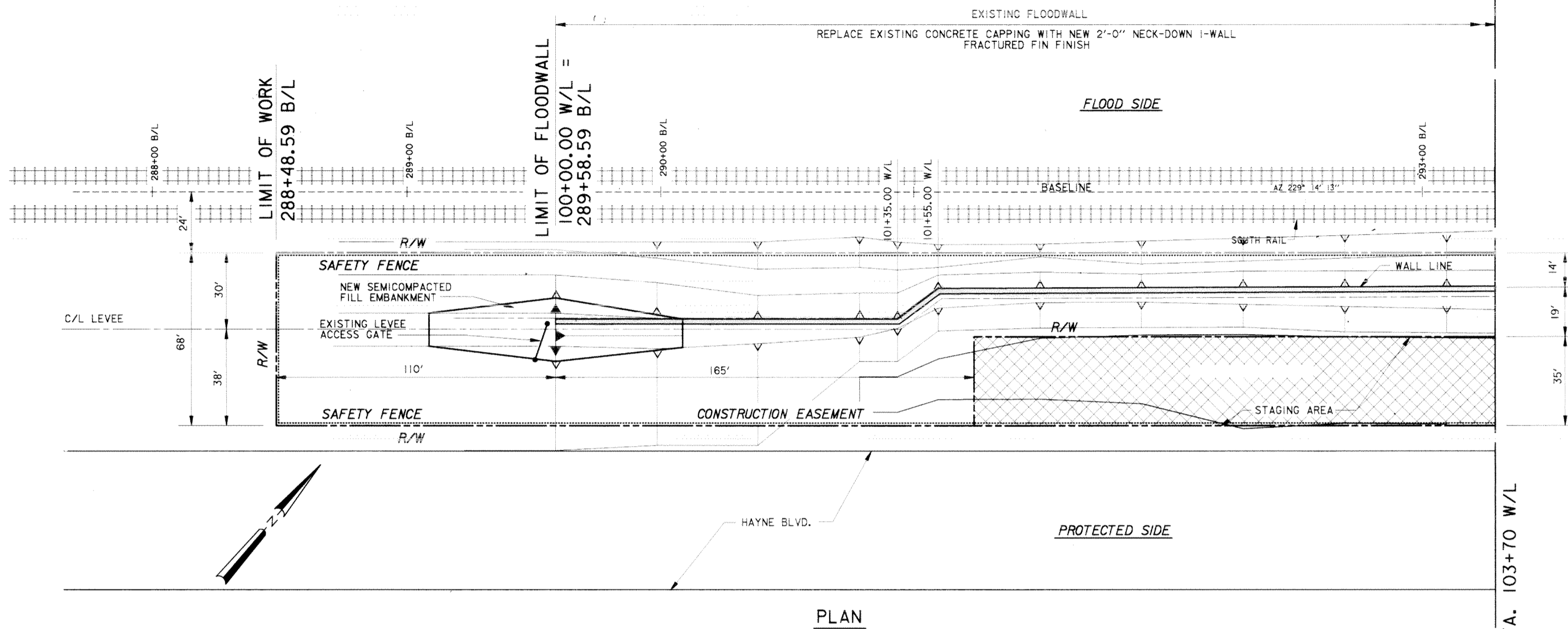


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PLAN</b> <b>VICINITY CAMP LEROY JOHNSON</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 120	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P08.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 8 OF 49



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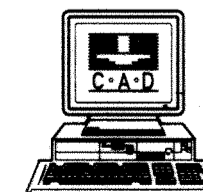
LAKE PONTCHARTRAIN




PLAN

- NOTES:
1. FOR SURVEYS, USE BENCHMARK "S-3".
  2. FOR PROFILE, SEE DWG. 21
  3. THE EXISTING LEVEE ACCESS GATE SHALL BE REMOVED, STORED AND REPLACED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE GOVERNMENT.
  4. THE CONTRACTOR SHALL REPLACE THE EXISTING CONCRETE SIDEWALK, IF DAMAGED BY CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO THE GOVERNMENT. THE CONTRACTOR SHALL DOCUMENT THE PRECONSTRUCTION CONDITION OF THE SIDEWALK WITH SURVEYS, VIDEOS AND PHOTOS.

SCALE: 1" = 20'

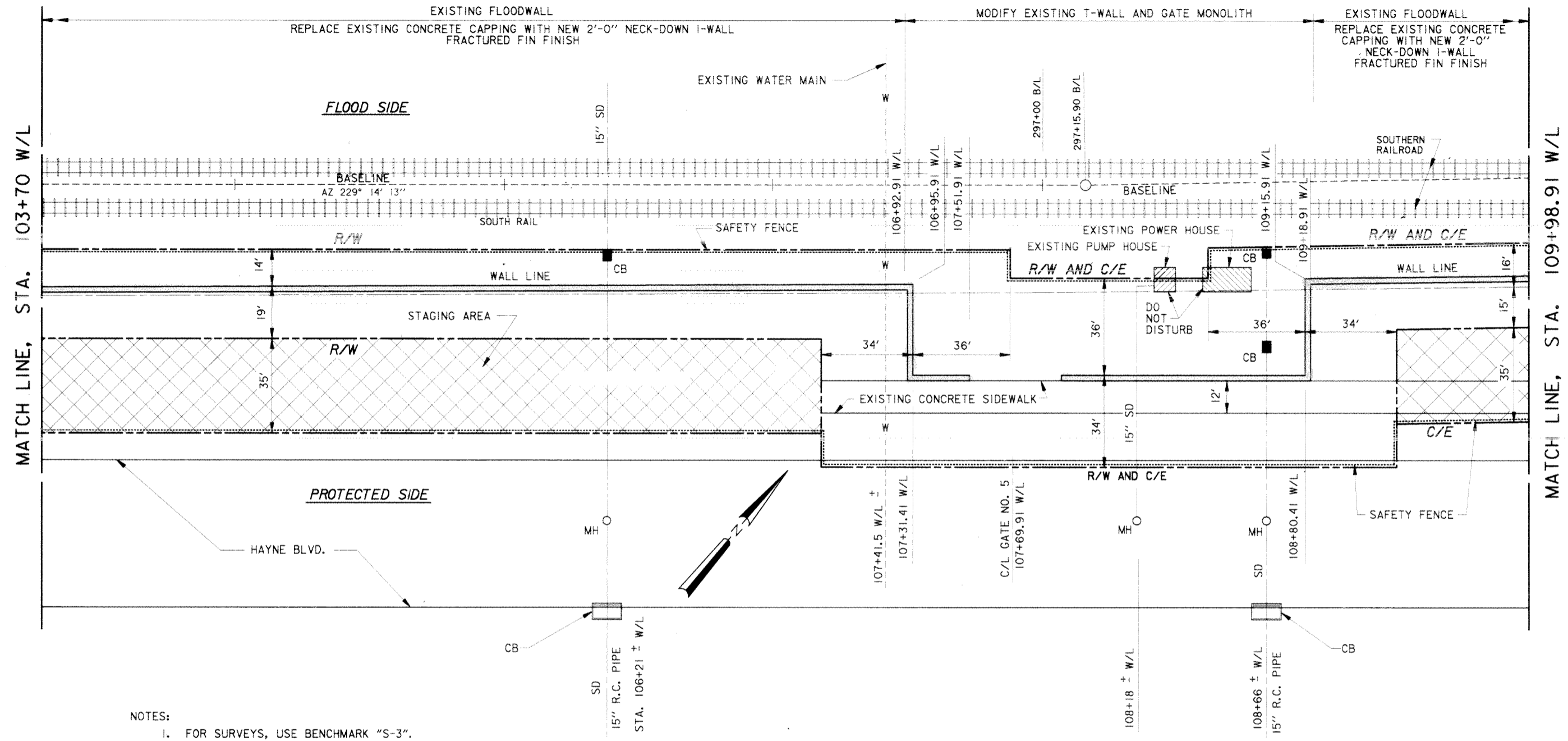


MATCH LINE, STA. 103+70 W/L

SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PLAN</b> VICINITY LINCOLN BEACH STA. 100+00 W/L TO STA. 103+70 W/L			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 240	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P09.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 9 OF 49

**Safety is a Part  
of Your Contract**

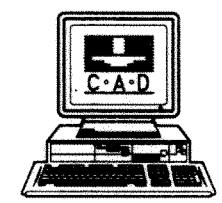
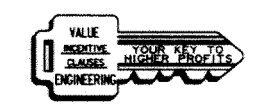
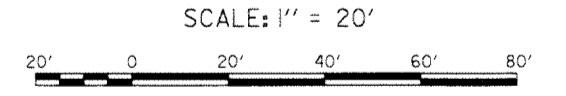
LAKE PONTCHARTRAIN




- NOTES:
1. FOR SURVEYS, USE BENCHMARK "S-3".
  2. FOR PROFILE, SEE DWG. 2!
  3. THE CONTRACTOR SHALL REPLACE THE EXISTING CONCRETE SIDEWALK, IF DAMAGED BY CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO THE GOVERNMENT. THE CONTRACTOR SHALL DOCUMENT THE PRECONSTRUCTION CONDITION OF THE SIDEWALK WITH SURVEYS, VIDEOS AND PHOTOS.

- LEGEND
- CB ■ = CATCH BASIN
  - MH ○ = MANHOLE

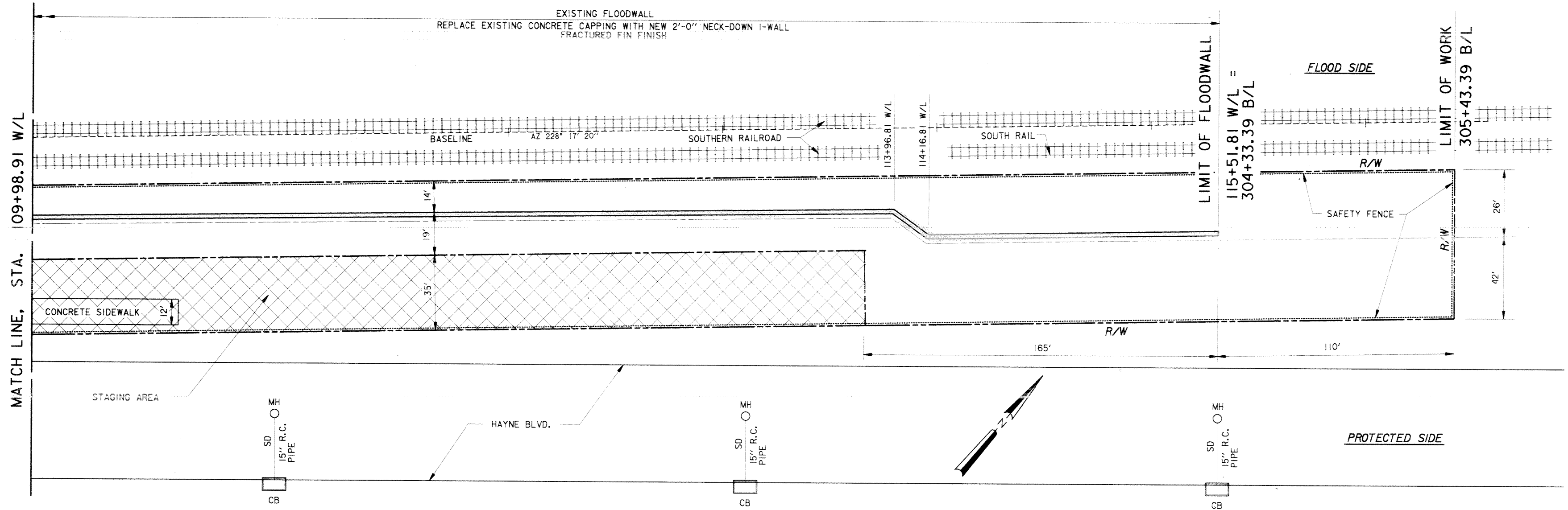
PLAN



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE			
<b>PLAN</b>			
<b>VICINITY LINCOLN BEACH</b>			
<b>STA. 103+70 W/L TO STA. 109+98.91 W/L</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 240	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P10.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 10 OF 49



Safety is a Part of Your Contract



PLAN

NOTES:

1. FOR SURVEYS, USE BENCHMARK "S-3".
2. FOR PROFILE, SEE DWGS. 21 AND 22.
3. THE CONTRACTOR SHALL REPLACE THE EXISTING CONCRETE SIDEWALK, IF DAMAGED BY CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO THE GOVERNMENT. THE CONTRACTOR SHALL DOCUMENT THE PRECONSTRUCTION CONDITION OF THE SIDEWALK WITH SURVEYS, VIDEOS AND PHOTOS.

SCALE: 1" = 20'



LEGEND

CB = CATCH BASIN  
MH = MANHOLE

SYMBOL	DESCRIPTION	DATE	APPROVED
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REVISIONS

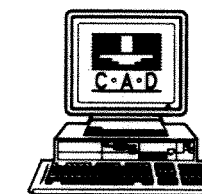
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS  
CORPS OF ENGINEERS  
NEW ORLEANS, LOUISIANA

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE

MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

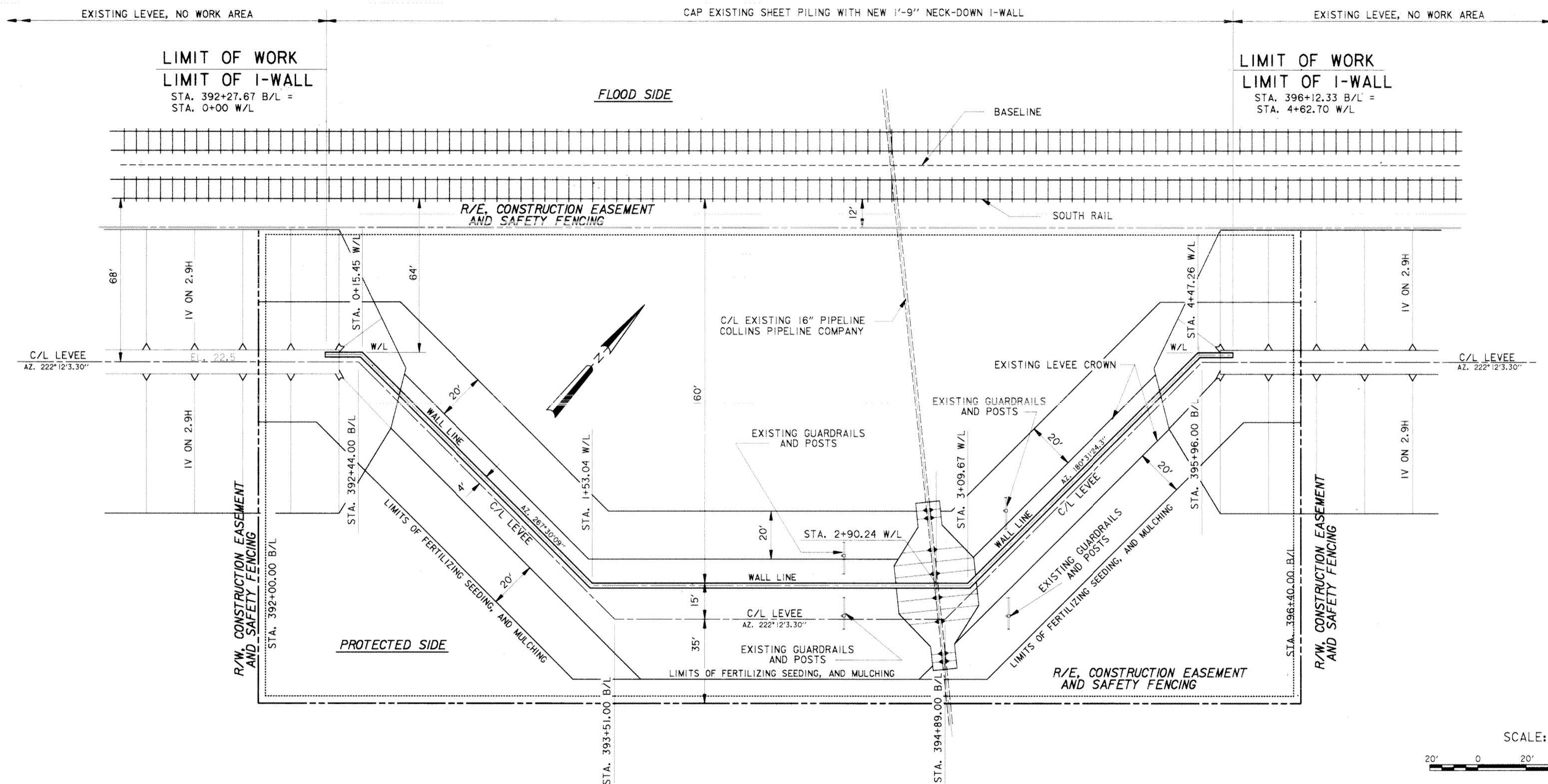
PLAN  
VICINITY LINCOLN BEACH  
STA. 109+98.91 W/L TO STA. 115+51.81 W/L

DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 240	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P11.DWG	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 11 OF 49	

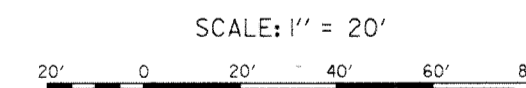


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LAKE PONTCHARTRAIN



PLAN



NOTES:

1. FOR SURVEYS, USE BENCHMARK "S-3".
2. FOR PROFILE, SEE DWG. 24
3. THE CONTRACTOR SHALL LOCATE ALL EXISTING SIGNAGE AND SHALL REMOVE, STORE AND REPLACE ALL SIGNAGE WHICH IMPACTS CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL REMOVE, STORE AND REPLACE THE GUARDRAIL AND POSTS, AT NO COST TO THE GOVERNMENT.

SYMBOL	DESCRIPTION	DATE	APPROVED
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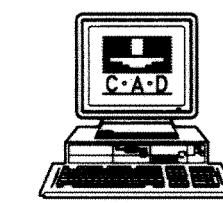
REVISIONS

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

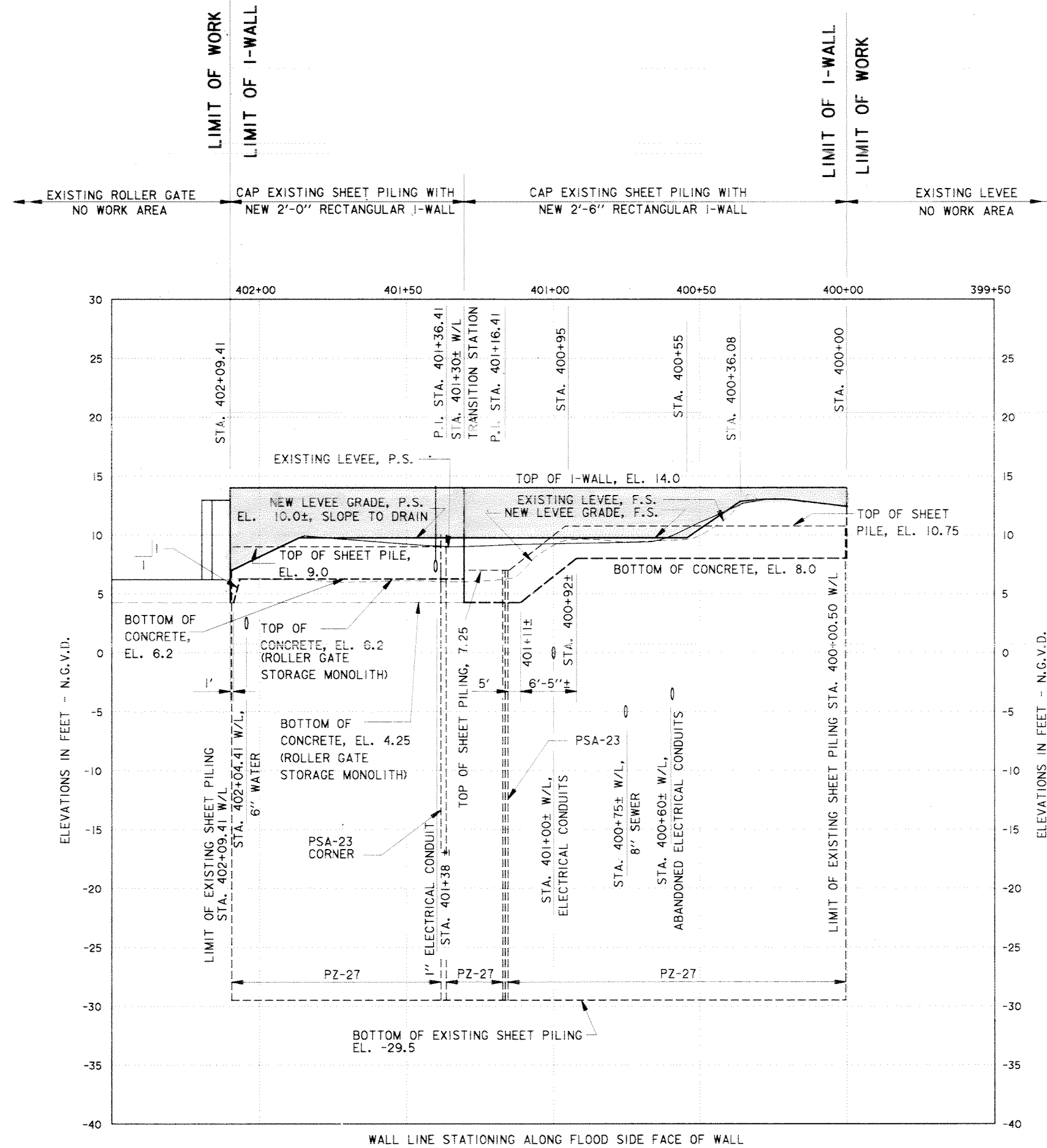
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKFFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

PLAN  
VICINITY COLLINS PIPELINE

DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 240	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P12.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075		
SUBMITTED BY: R.GRUBB DESIGN ENGINEER		DWG. 12 OF 49	



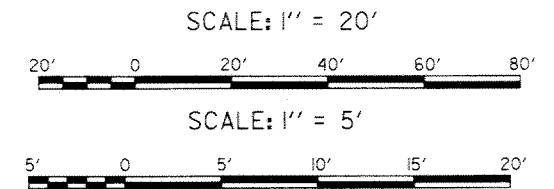
Safety is a Part  
of Your Contract




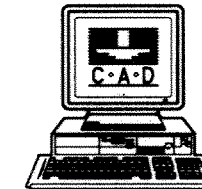
PROFILE VICINITY LAKE MARINA AVE.

SCALE: HOR. 1" = 20'  
VERT. 1" = 5'

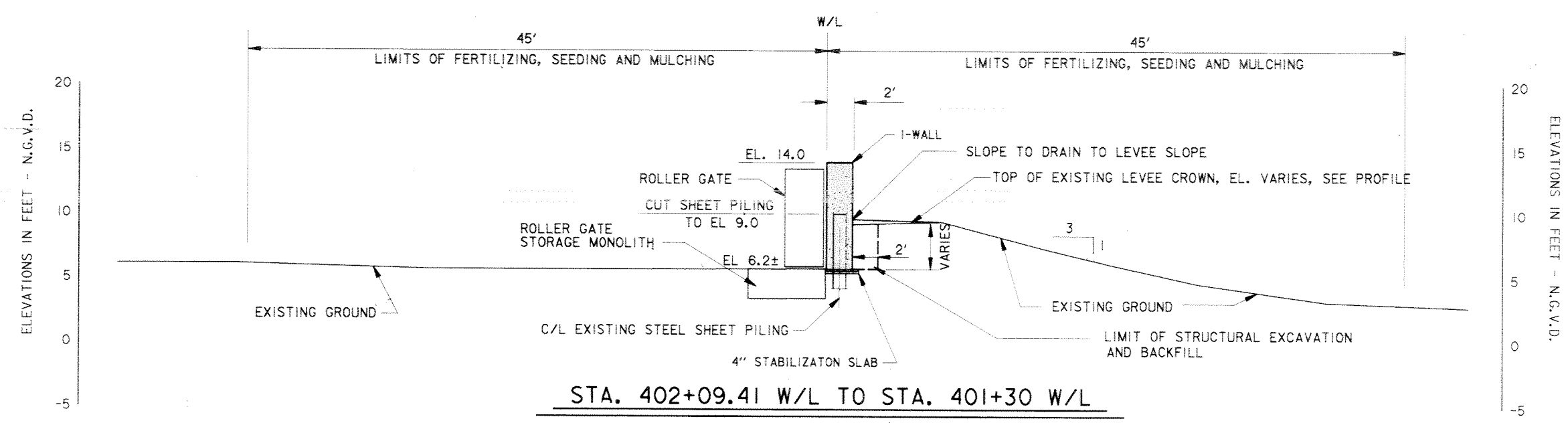
- NOTES:
- FOR PLAN, SEE DWG. 3.
  - FOR TYPICAL SECTIONS, SEE DWG. 14.
  - THE 1" ELECTRICAL CONDUIT, STA. 401+38±, SHALL BE TEMPORARILY RELOCATED BY THE ORLEANS LEVEE BOARD. THE CONDUIT WILL BE REPLACED AFTER COMPLETION OF THE I-WALL BY THE CONTRACTOR. SEE DWG. 46.
  - THE EXISTING UNDERGROUND UTILITIES SHALL NOT BE DISTURBED BY THE CONTRACTOR. IF A UTILITY IS DISTURBED OR DAMAGED DUE TO CONSTRUCTION ACTIVITIES, THE DAMAGE WILL BE REPAIRED BY THE CONTRACTOR, AT NO COST TO THE GOVERNMENT OR THE UTILITY OWNER.



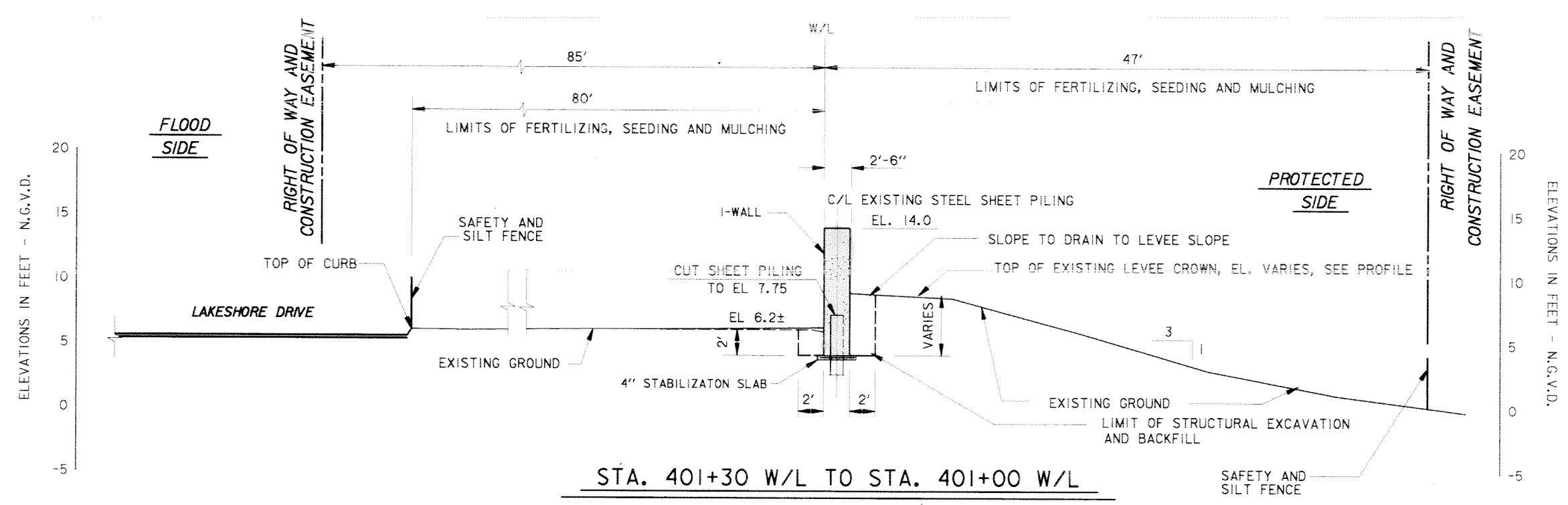
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE</b> <b>VICINITY LAKE MARINA AVE.</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P13.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 13	OF 49
SUBMITTED BY: R.GRUBB DESIGN ENGINEER			



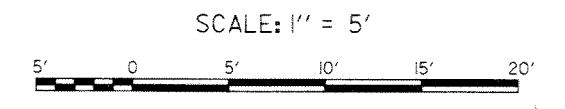
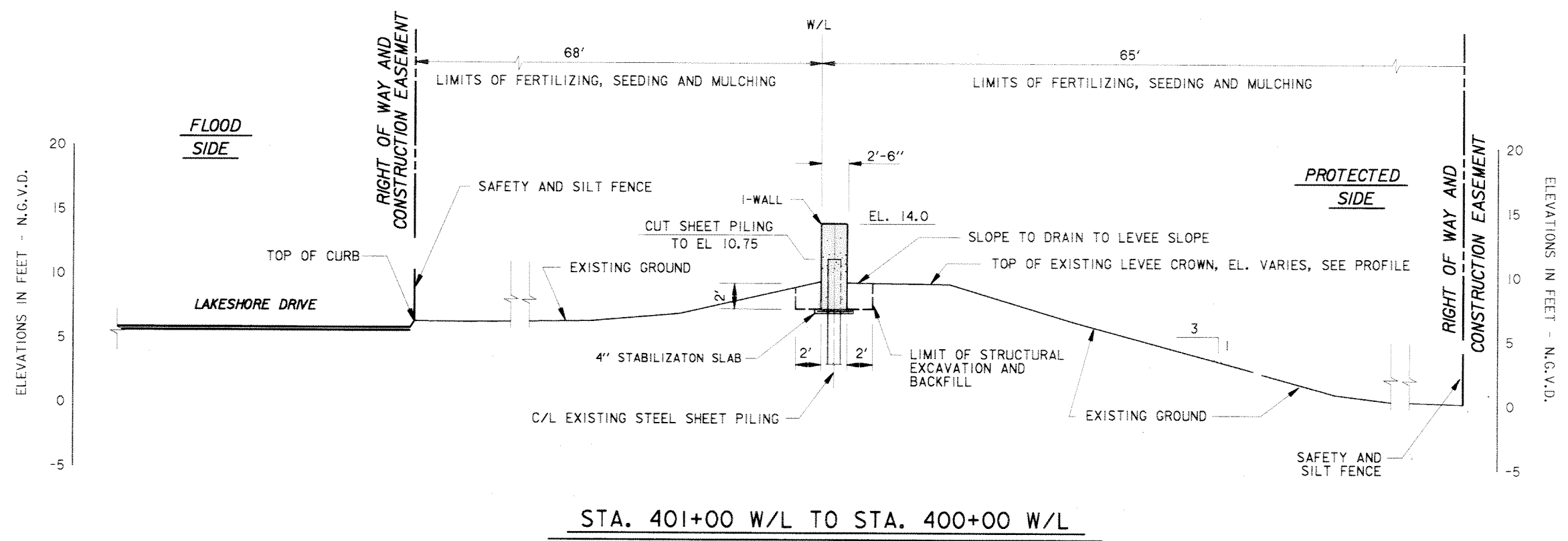
**Safety is a Part of Your Contract**



NOTE:  
PAINT ALL EXPOSED SURFACES, EXCEPT BUSHHAMMERED SURFACES, WITH CEMENTITIOUS PAINT TO MATCH COLOR AND TEXTURE OF ADJACENT FLOODWALL.



NOTES:  
1. FOR PLAN, SEE DWG. 3.  
2. FOR TYPICAL SECTIONS, SEE DWG. 14.



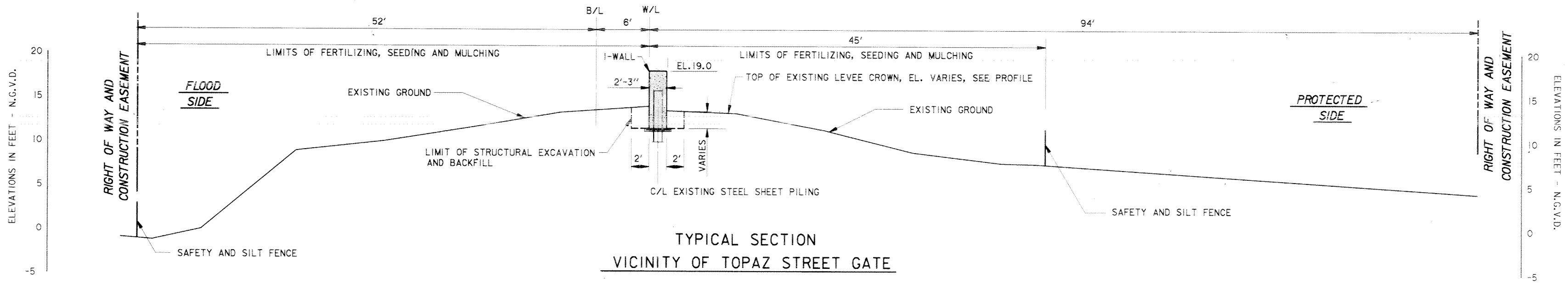
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

**U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS**  
CORPS OF ENGINEERS  
NEW ORLEANS, LOUISIANA  
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
**MISCELLANEOUS FLOODWALL CAPPING**  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

**TYPICAL SECTIONS**  
VICINITY LAKE MARINA AVE.

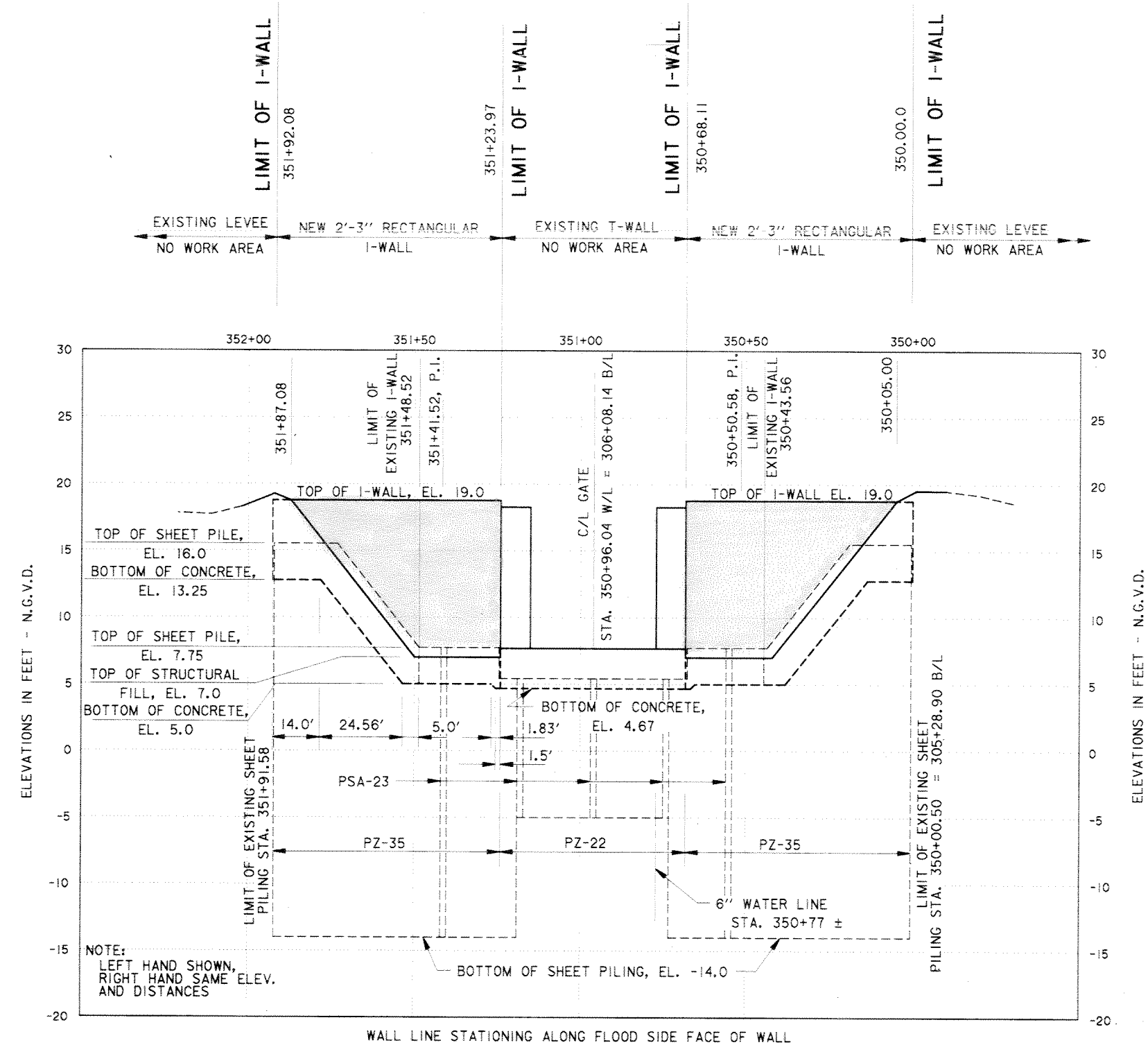
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MACEE	CHECKED BY: R.GRUBB	CADD FILE: 44577P14.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB	DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075	DWG. 14 OF 49





TYPICAL SECTION  
VICINITY OF TOPAZ STREET GATE

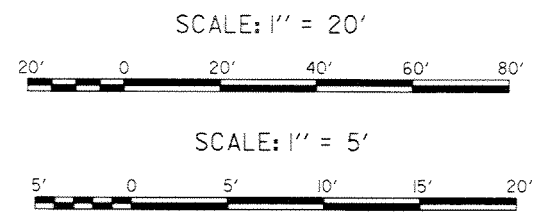
NOTE:  
PAINT ALL EXPOSED SURFACES,  
EXCEPT BUSHHAMMERED SURFACES,  
WITH CEMENTITIOUS PAINT TO MATCH  
COLOR AND TEXTURE OF FLOODWALL  
AT LAKE MARINA AVENUE.



PROFILE VICINITY TOPAZ ST. GATE

SCALE: HOR. 1" = 20'  
VERT. 1" = 5'

- NOTES:
- FOR PLAN, SEE DWG. 4.
  - EXISTING SHEET PILING SHALL REMAIN IN PLACE. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE SHEET PILING DURING FLOODWALL DEMOLITION.



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

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

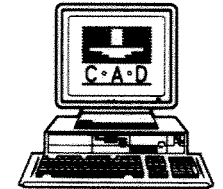
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE

**MISCELLANEOUS FLOODWALL CAPPING**  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

**PROFILE AND TYPICAL SECTION  
VICINITY TOPAZ ST.**

DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 44577P15.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075	DWG. 15 OF 49	

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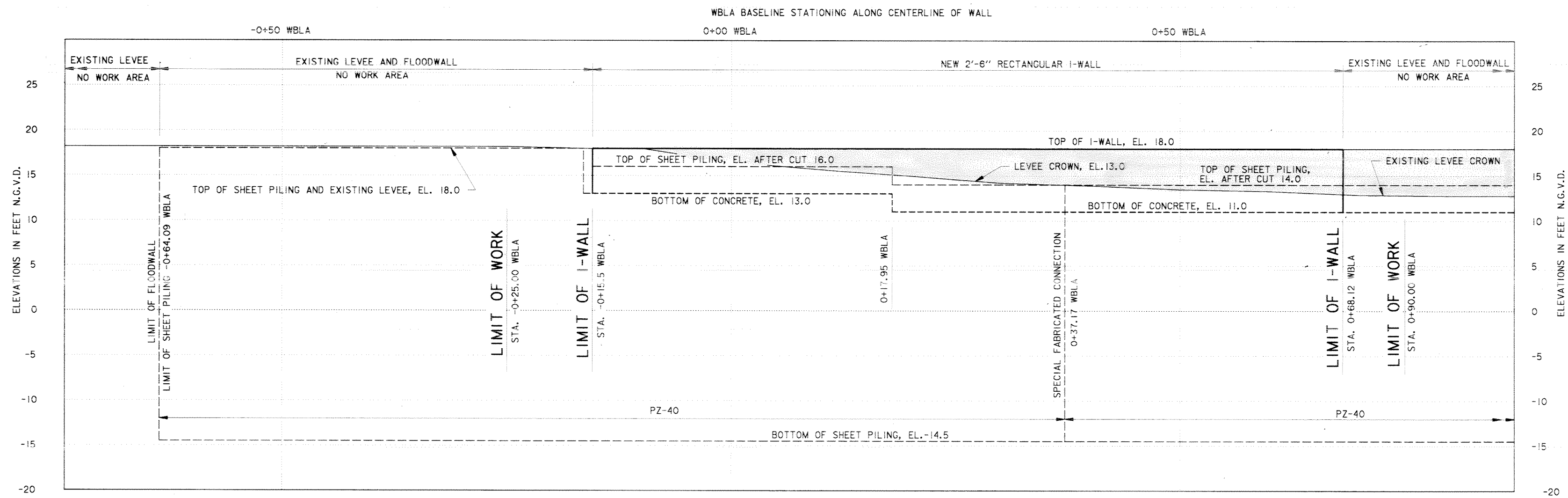
Aug. 16

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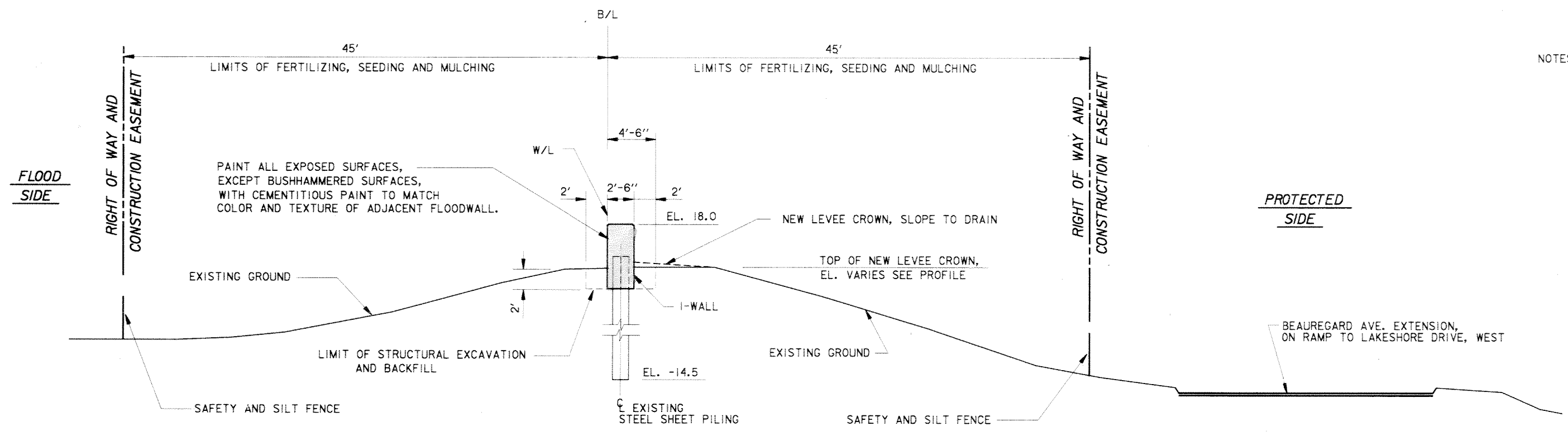
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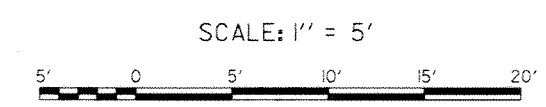


PROFILE  
VICINITY BAYOU ST. JOHN (WEST)



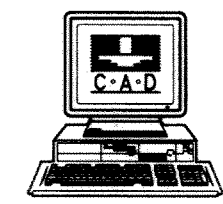
TYPICAL SECTION  
VICINITY BAYOU ST. JOHN (WEST)

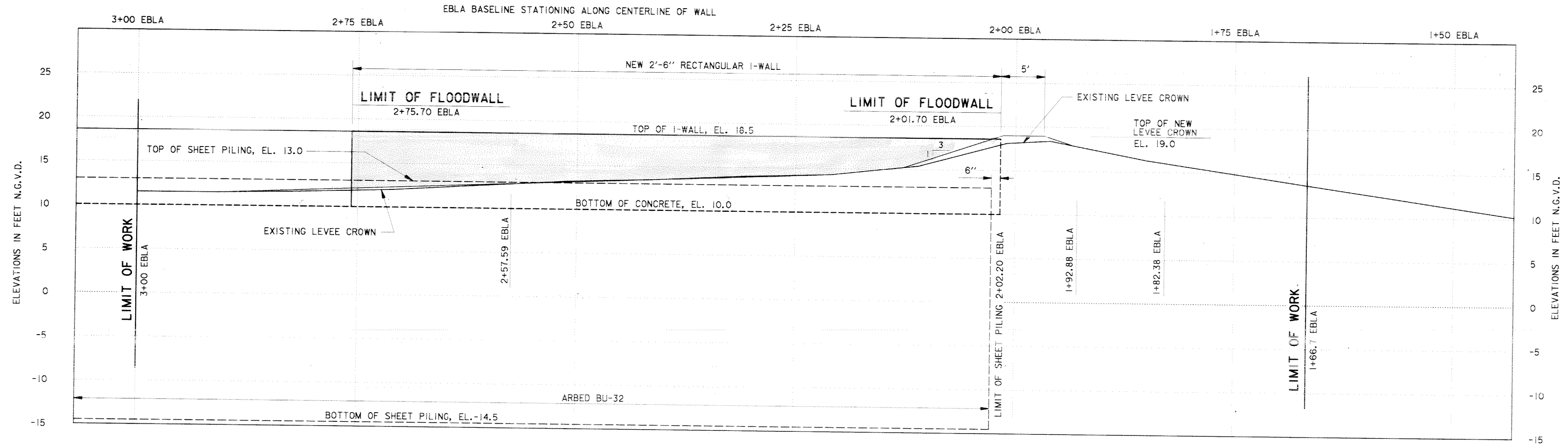
- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR TYPICAL WALL JOINTS, SEE DWG. 32.
  3. FOR PLAN, SEE DWG. 6.



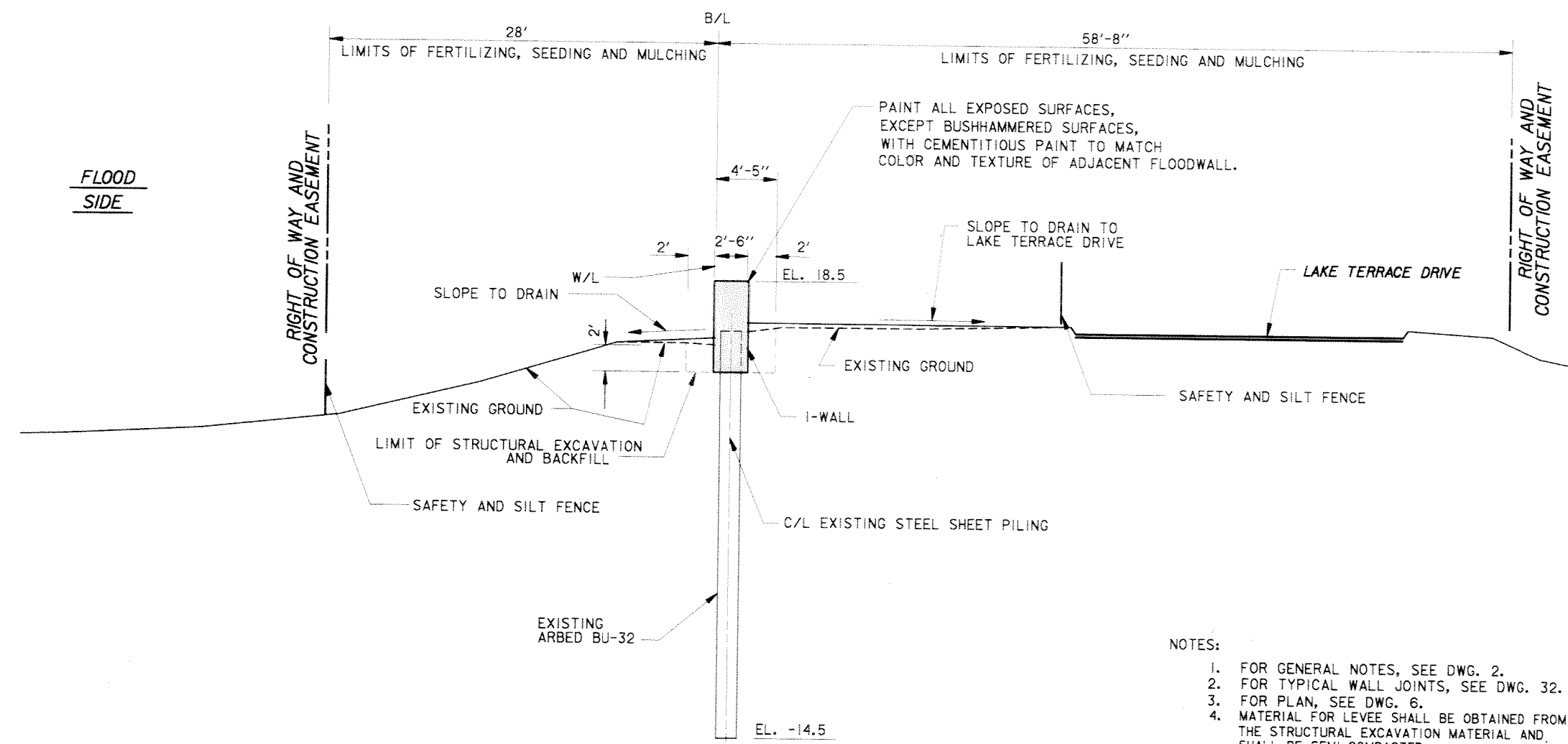
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE &amp; TYPICAL SECTION</b> <b>VICINITY BAYOU ST. JOHN (WEST)</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P17.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 17 OF 49

Safety is a Part  
of Your Contract



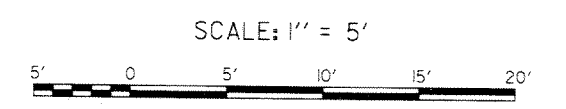


**PROFILE**

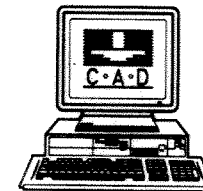


**TYPICAL SECTION  
VICINITY BAYOU ST. JOHN (EAST)**

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR TYPICAL WALL JOINTS, SEE DWG. 32.
  3. FOR PLAN, SEE DWG. 6.
  4. MATERIAL FOR LEVEE SHALL BE OBTAINED FROM THE STRUCTURAL EXCAVATION MATERIAL AND SHALL BE SEMI-COMPACTED.



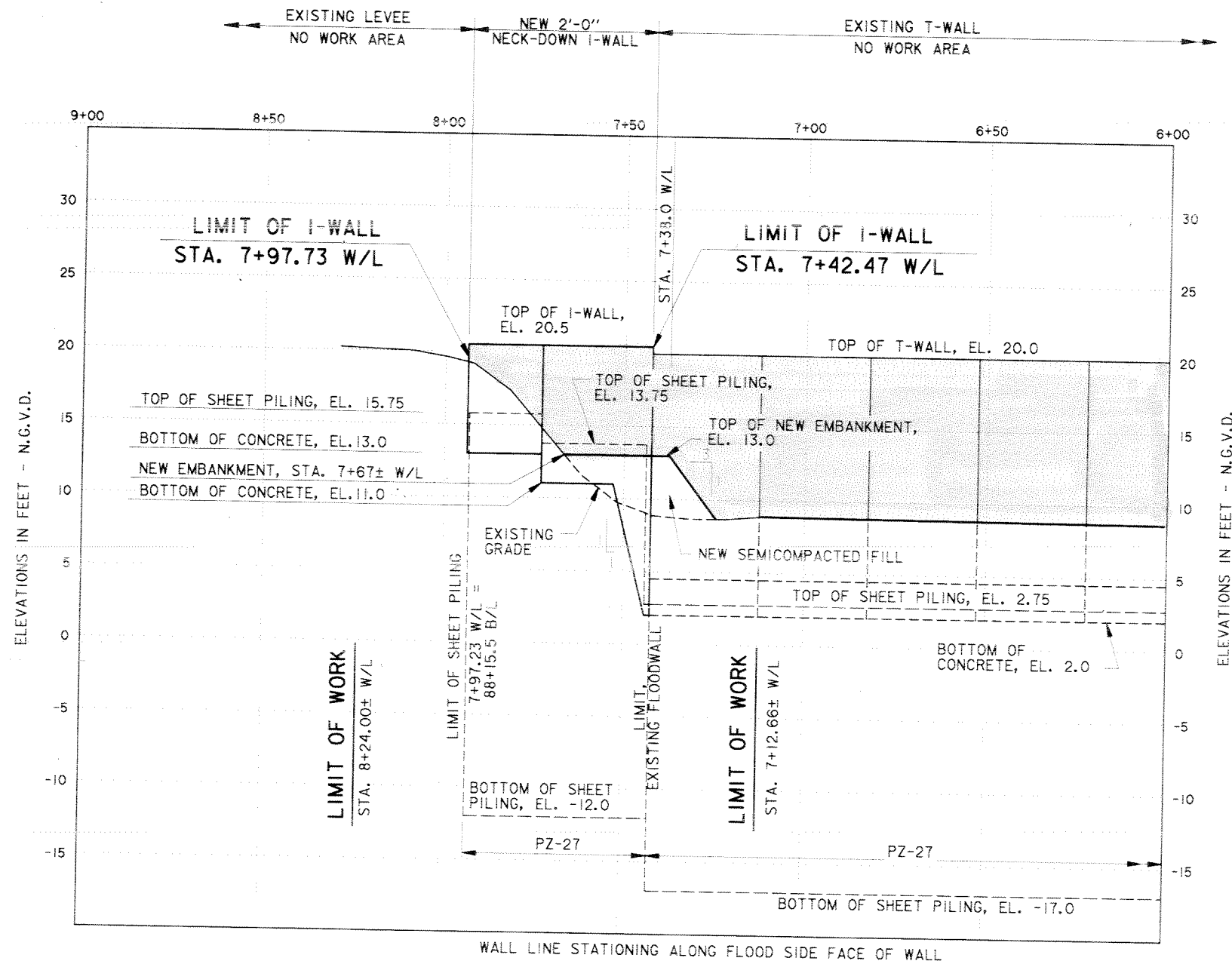
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE &amp; TYPICAL SECTION</b> <b>VICINITY BAYOU ST. JOHN(EAST)</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.WAGEE	CHECKED BY: R.GRUBB	CADD FILE: 44577P18.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075	DWG. 18 OF 49	



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of Your Contract**



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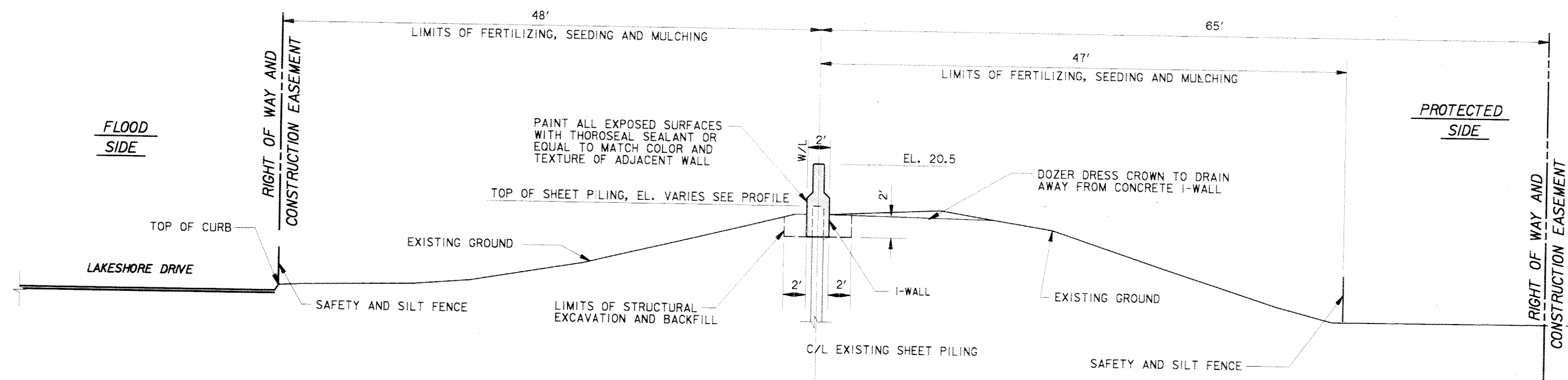


WALL LINE STATIONING ALONG FLOOD SIDE FACE OF WALL

**PROFILE VICINITY FRANKLIN AVE.**

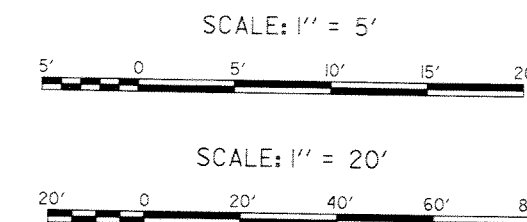
SCALE: HOR. 1" = 20'  
VERT. 1" = 5'

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR TYPICAL WALL JOINTS, SEE DWG. 34.
  3. FOR PLAN, SEE DWG. 7.



**TYPICAL SECTION VICINITY FRANKLIN AVE.**

SCALE: 1" = 5'



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

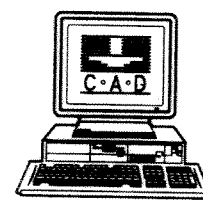
**U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS**  
CORPS OF ENGINEERS  
NEW ORLEANS, LOUISIANA

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE

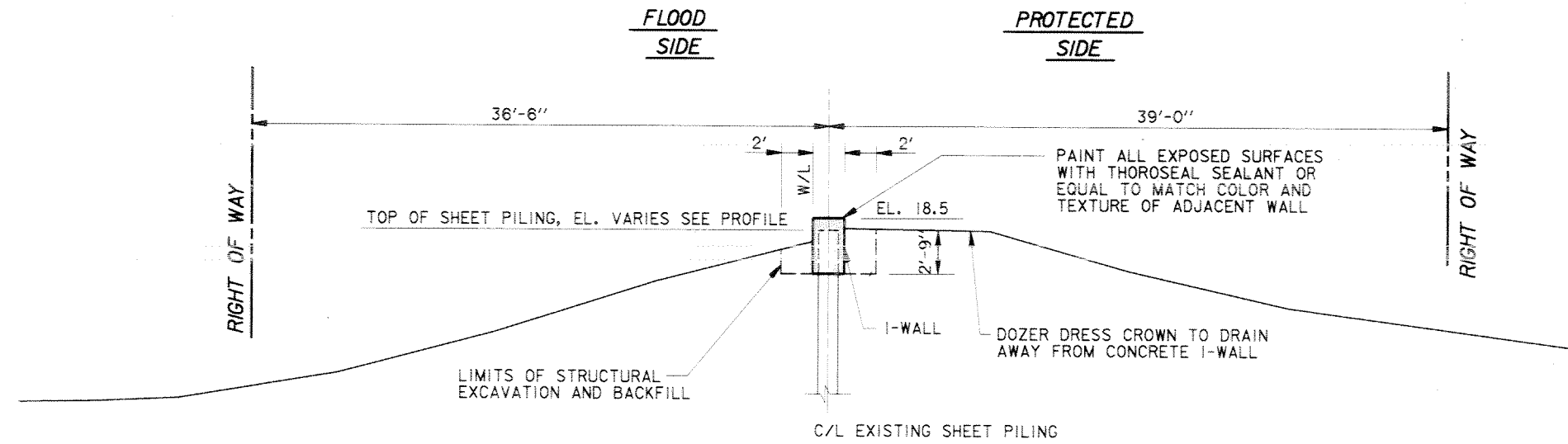
MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

**PROFILE AND TYPICAL SECTION VICINITY OF FRANKLIN AVE.**

DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 44577P/9.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 19 OF 49	

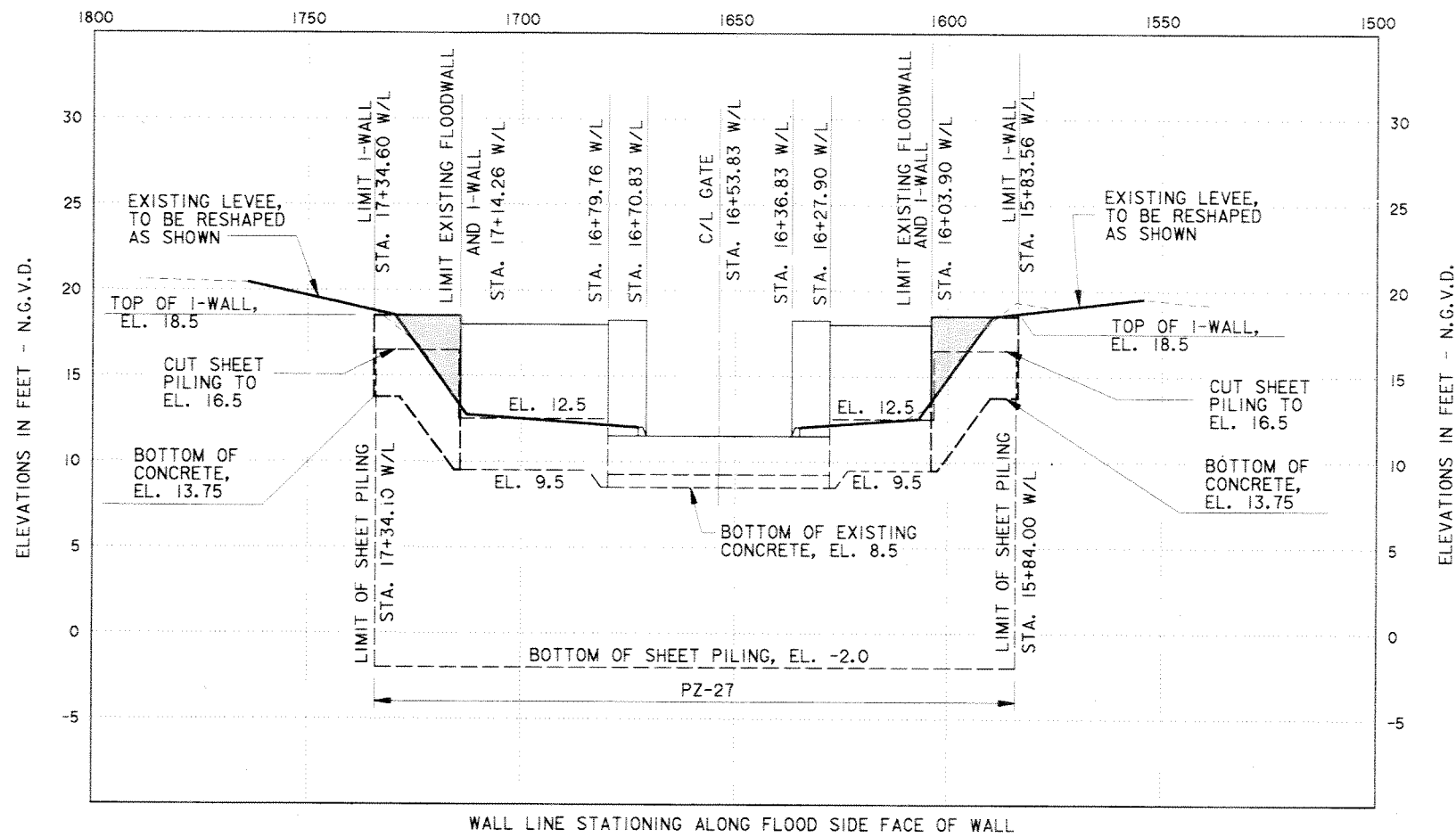
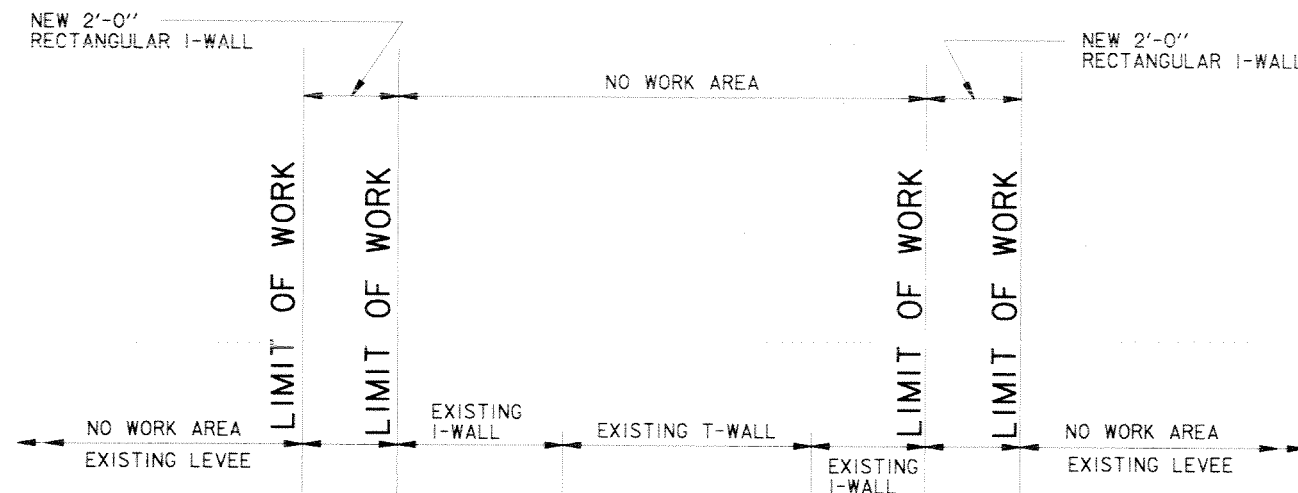


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TYPICAL SECTION  
VICINITY CAMP LEROY JOHNSON  
STA. 17+14.26 W/L TO STA 17+34.6 W/L

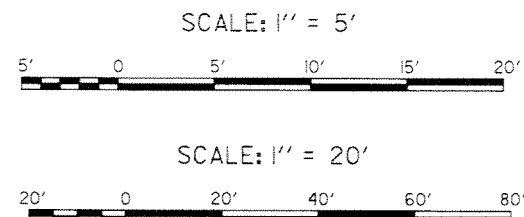
SCALE: 1" = 5'  
STA. 15+83.5 W/L TO STA. 16+03.9 W/L SIMILAR



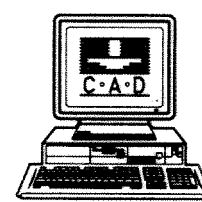
PROFILE VICINITY CAMP LEROY JOHNSON

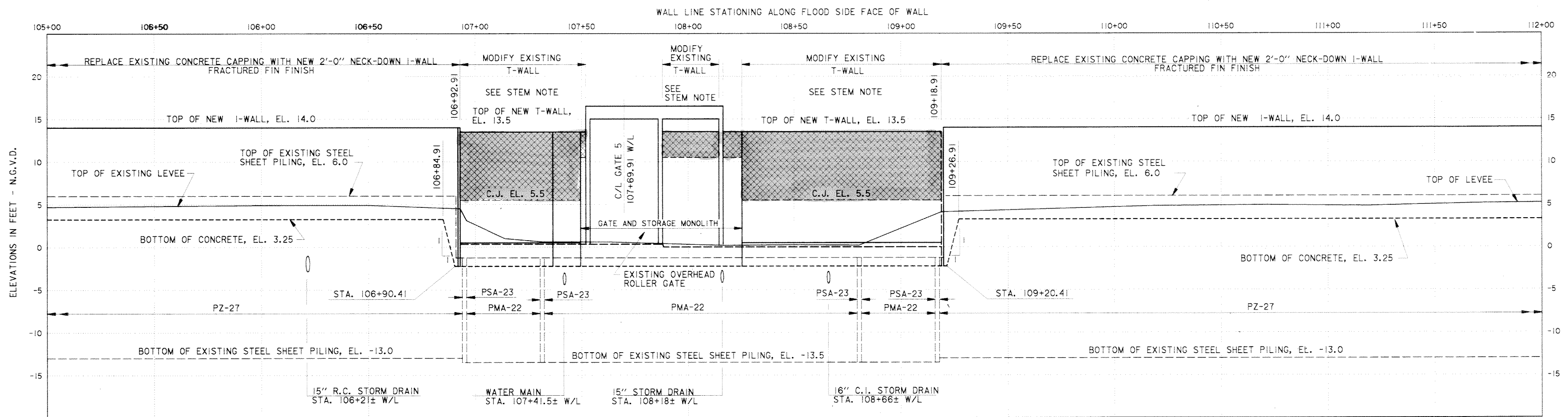
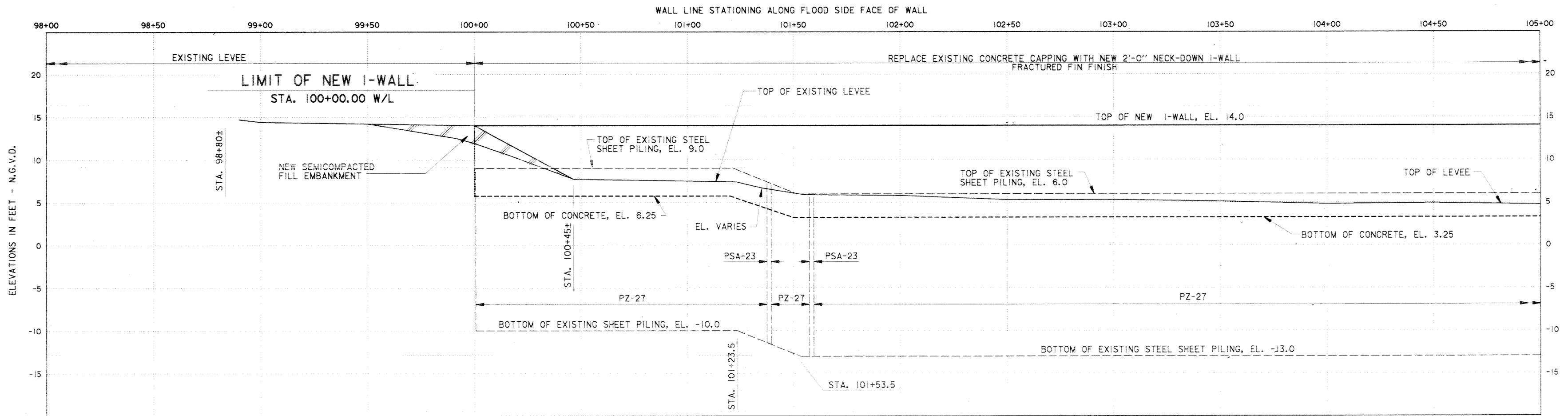
SCALE: HOR. 1" = 20'  
VERT. 1" = 5'

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWG. 8.



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE AND TYPICAL SECTION</b> <b>VICINITY OF CAMP LEROY JOHNSON</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 4457720.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 20 OF 49	
SUBMITTED BY: R.GRUBB DESIGN ENGINEER			





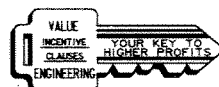
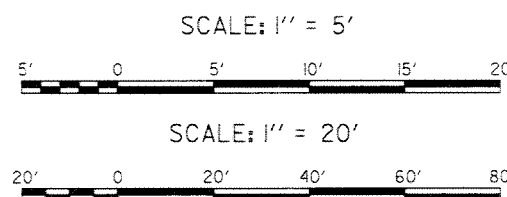
STEM NOTE:  
 REPLACE EXISTING STEM WITH NEW STEM.  
 FOR DETAILS, SEE DWG. 35.

NOTES:

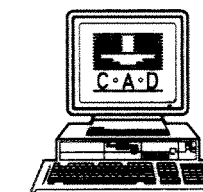
1. FOR GENERAL NOTES, SEE DWG. 2.
2. FOR PLAN, SEE DWGS. 9 THRU 11.
3. FOR TYPICAL WALL JOINTS, SEE DWG. 34.
4. FOR TYPICAL SECTIONS, SEE DWG. 23.
5. THE EXISTING SHEET PILING SHALL REMAIN IN PLACE. THE CONTRACTOR SHALL TAKE CARE TO NOT DAMAGE THE SHEET PILING DURING DEMOLITION OPERATIONS.

PROFILE

SCALE: HOR. 1" = 20'  
 VERT. 1" = 5'

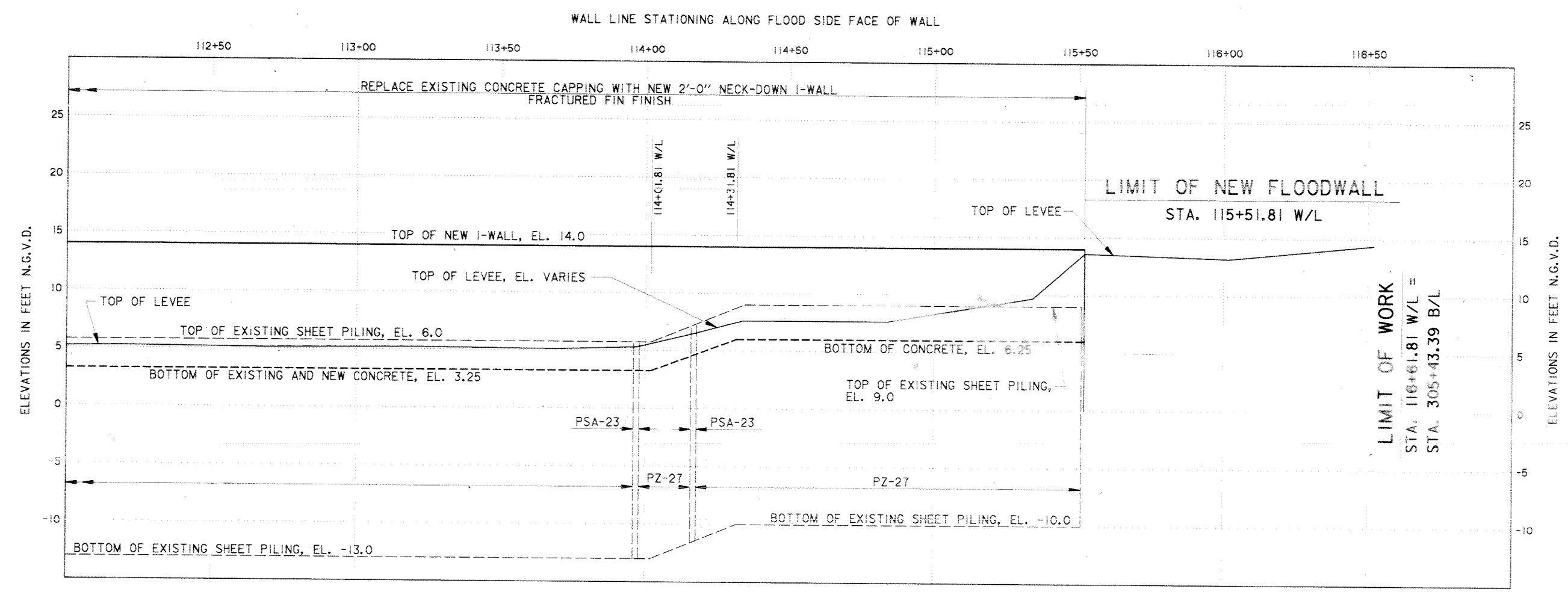


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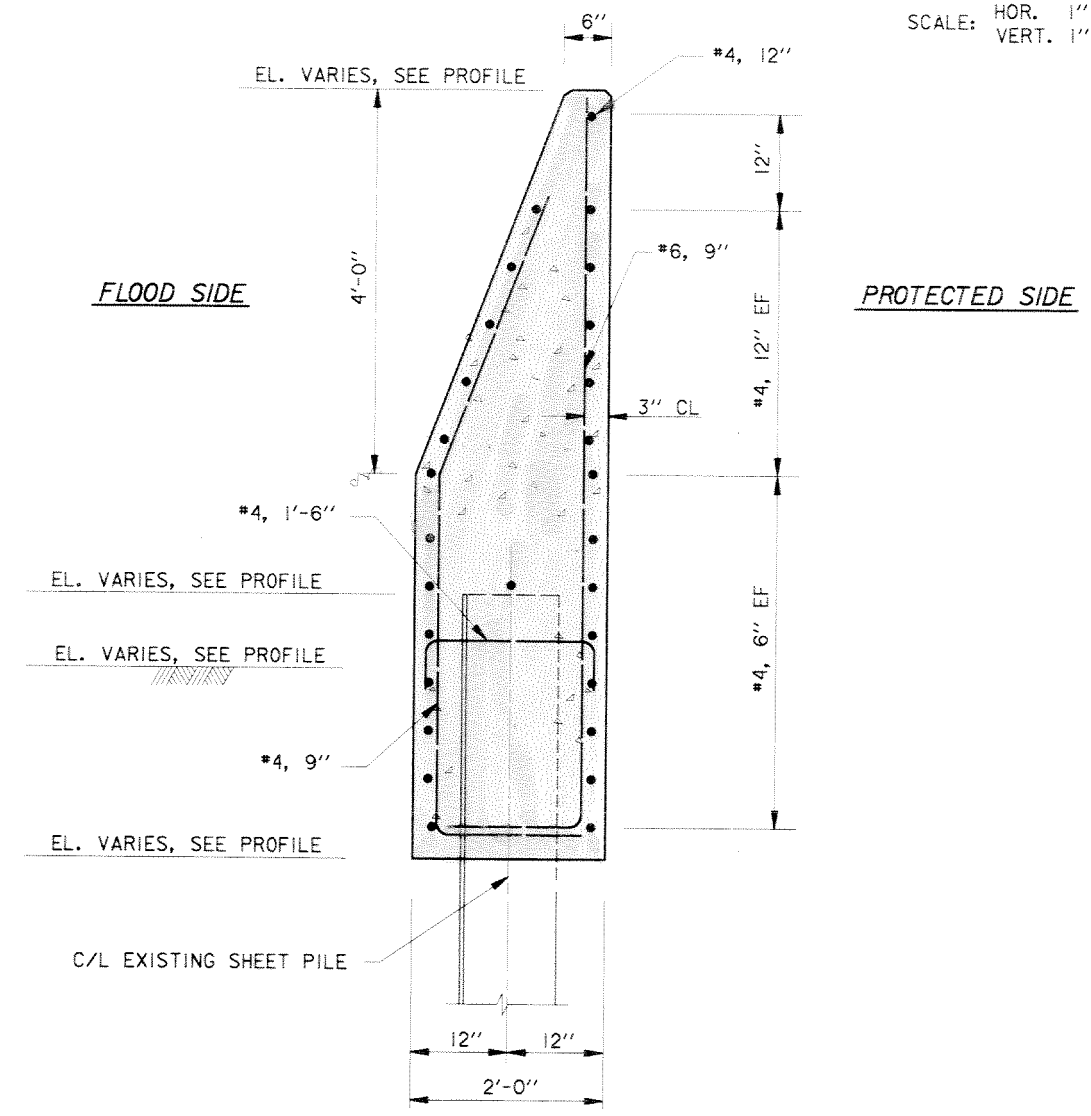
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE</b> <b>VICINITY OF LINCOLN BEACH</b> <b>STA. 100+00 W/L TO STA. 112+00 W/L</b>			
DESIGNED BY: R. GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L. WAGEE	CADD FILE: 4457P21.DGN	FILE NO. H-8-44577	
CHECKED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 21	OF 49
SUBMITTED BY: R. GRUBB DESIGN ENGINEER			

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**PROFILE**

SCALE: HOR. 1" = 20'  
VERT. 1" = 5'

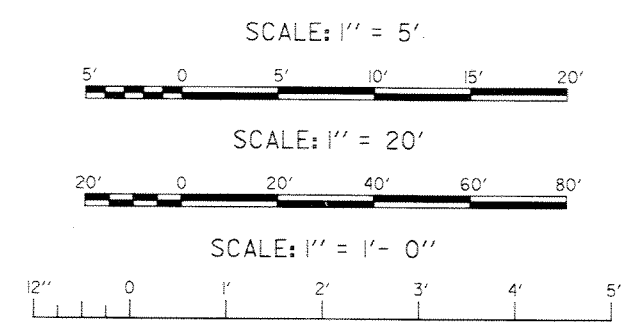


TYPICAL SECTION

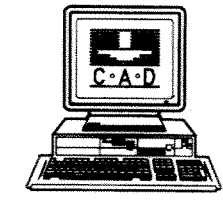
**EXISTING I-WALL**

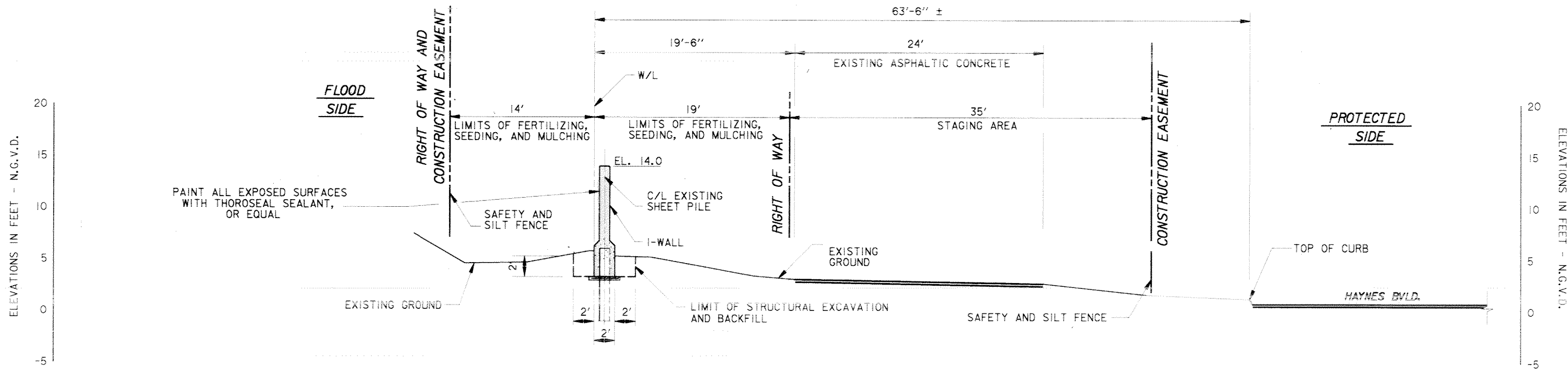
SCALE: 1" = 1'-0"

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWGS. 9 THRU 11.
  3. FOR TYPICAL WALL JOINTS, SEE DWG. 34.
  4. FOR TYPICAL SECTIONS, SEE DWG. 23.

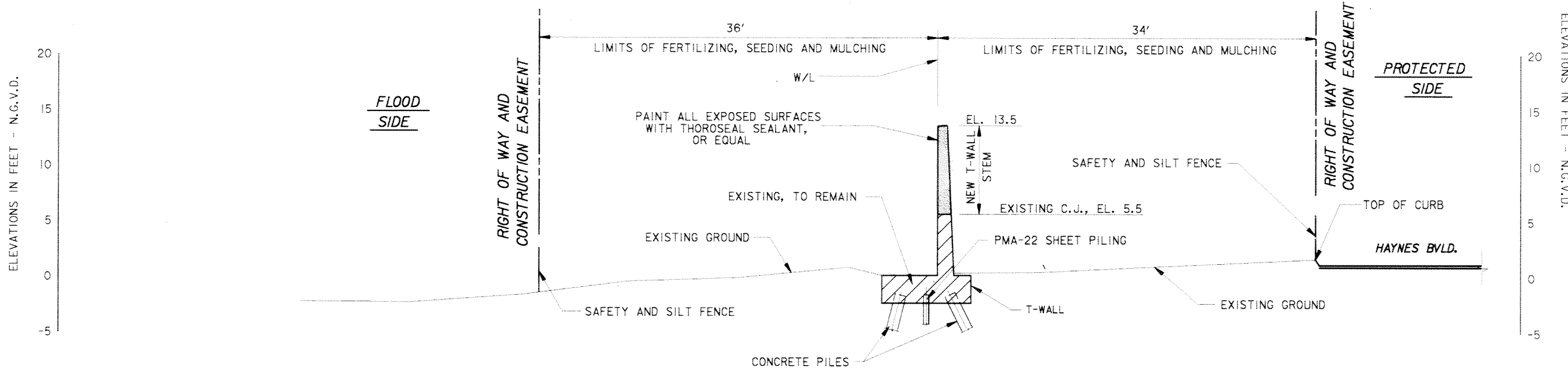


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE</b> <b>VICINITY OF LINCOLN BEACH</b> <b>STA. 112+00 W/L TO STA. 115+51.81 W/L</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577922.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 22 OF 49





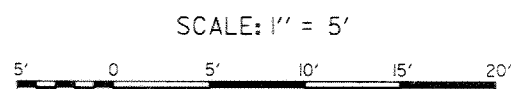
TYPICAL SECTION  
VICINITY OF LINCOLN BEACH, I-WALL SECTION



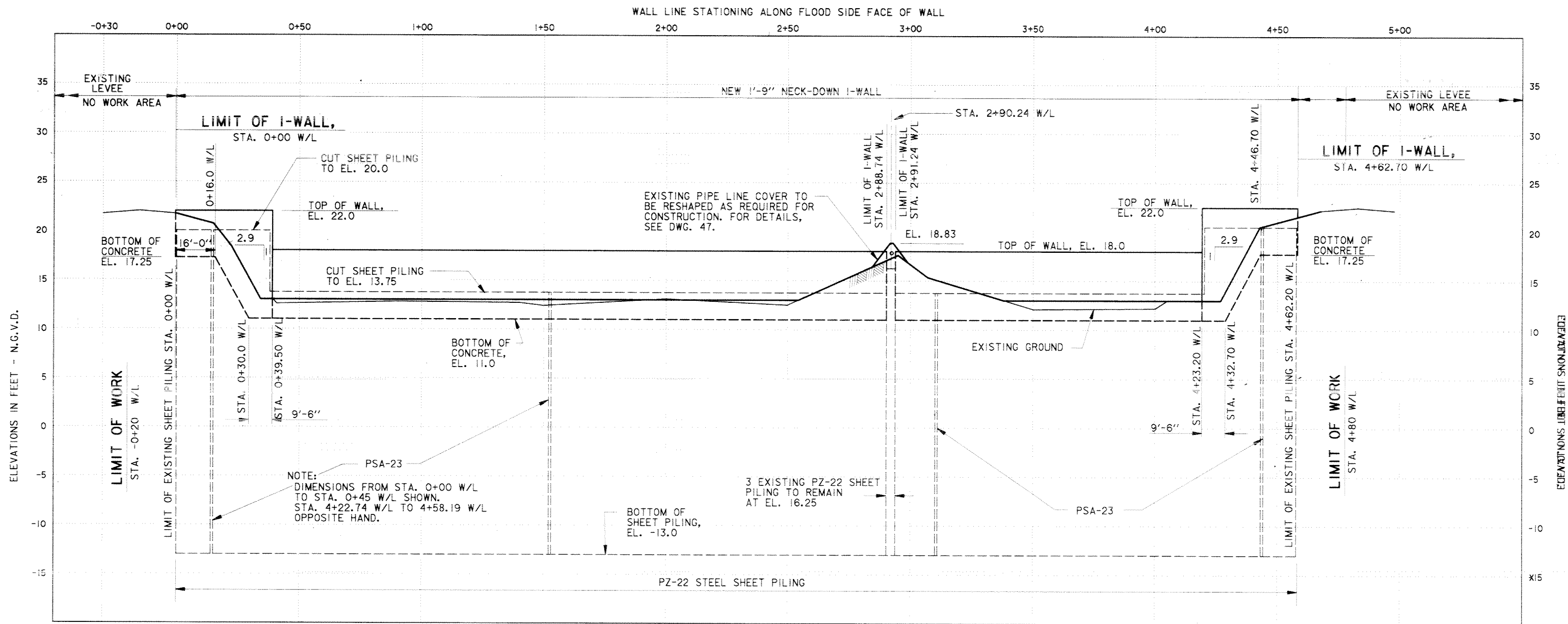
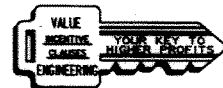
TYPICAL SECTION  
VICINITY OF LINCOLN BEACH, T-WALL SECTION

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWGS. 9 THRU 11.
  3. FOR PROFILES, SEE DWGS. 21 AND 22.
  4. FOR TYPICAL WALL JOINTS, SEE DWG. 34.

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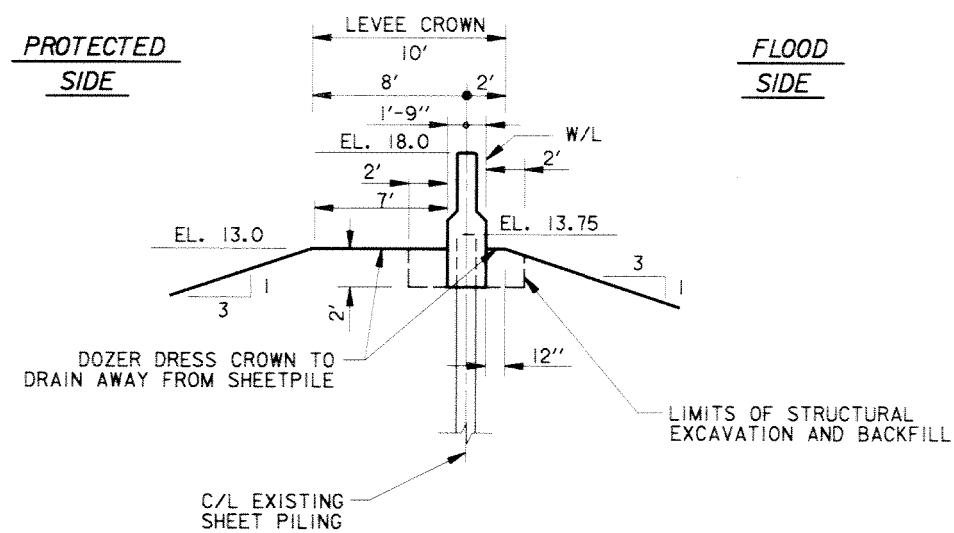
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>TYPICAL SECTIONS</b> VICINITY LINCOLN BEACH			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 4457TP23.DGN	FILE NO.	H-8-44577
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 23 OF 49



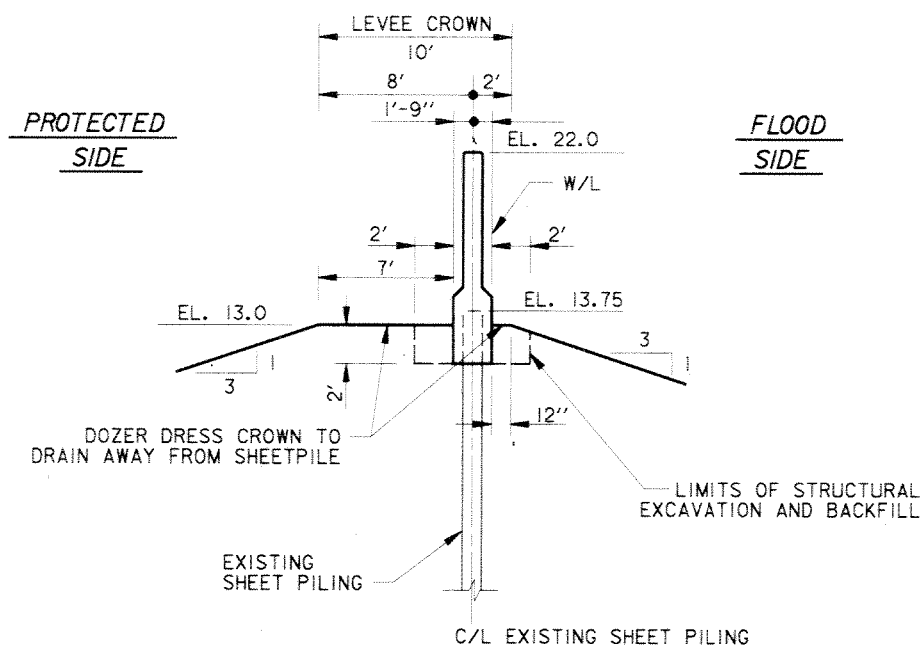
**PROFILE VICINITY COLLINS PIPELINE**

SCALE: HOR. 1" = 20'  
VERT. 1" = 5'

NOTE:  
PAINT ALL EXPOSED SURFACES,  
THOROSEAL SEALANT OR EQUAL.



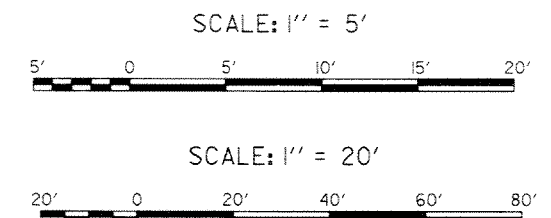
STA. 0+39.50 W/L  
TO  
STA. 4+23.20 W/L



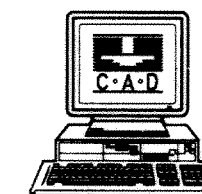
STA. 0+00.00 W/L TO STA 0+39.50 W/L  
AND  
STA. 4+23.20 W/L TO STA. 4+62.70 W/L

**TYPICAL SECTIONS VICINITY COLLINS PIPELINE**

SCALE: 1" = 5'

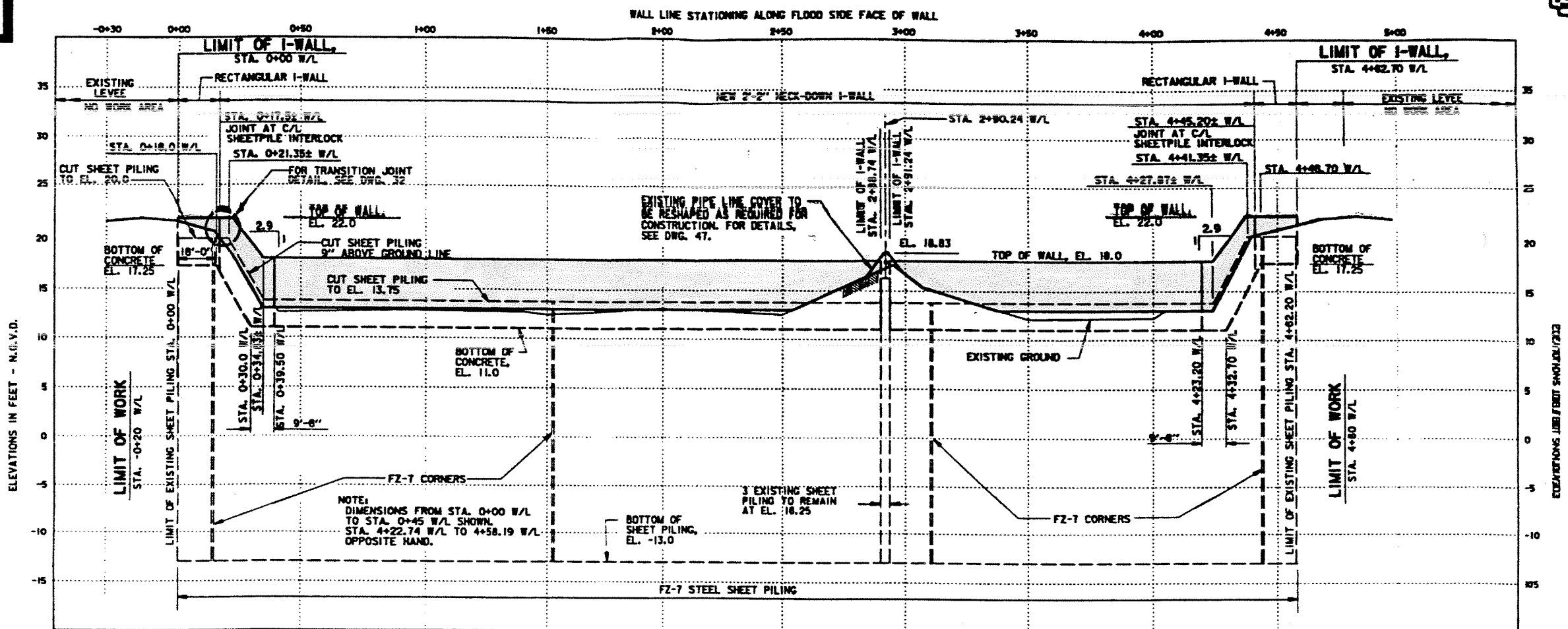


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SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE AND TYPICAL SECTIONS</b> <b>VICINITY OF COLLINS PIPELINE</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 4457P24.DGN		FILE NO. H-8-44577
CHECKED BY: R.GRUBB			
SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075		DWG. 24 OF 49
DESIGN ENGINEER			

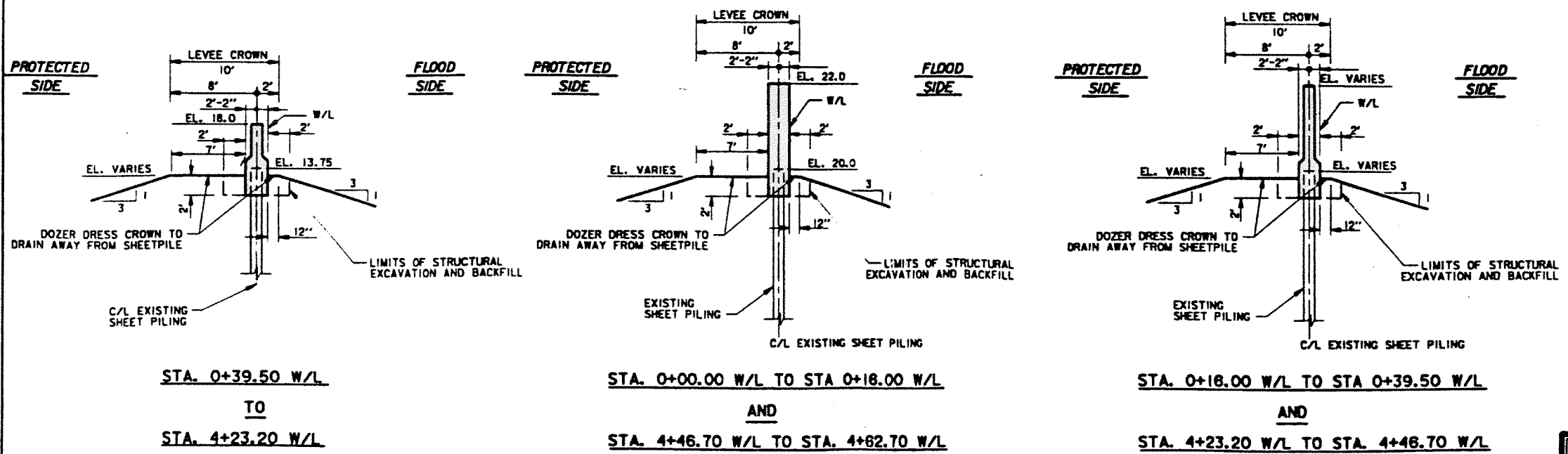
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PROFILE VICINITY COLLINS PIPELINE

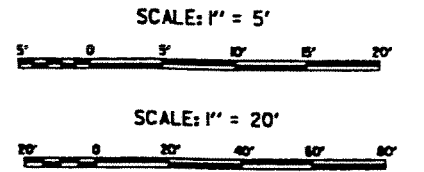
SCALE: HOR. 1" = 20'  
VERT. 1" = 5'

NOTE: PAINT ALL EXPOSED SURFACES, THOROSEAL SEALANT OR EQUAL.



TYPICAL SECTIONS VICINITY COLLINS PIPELINE

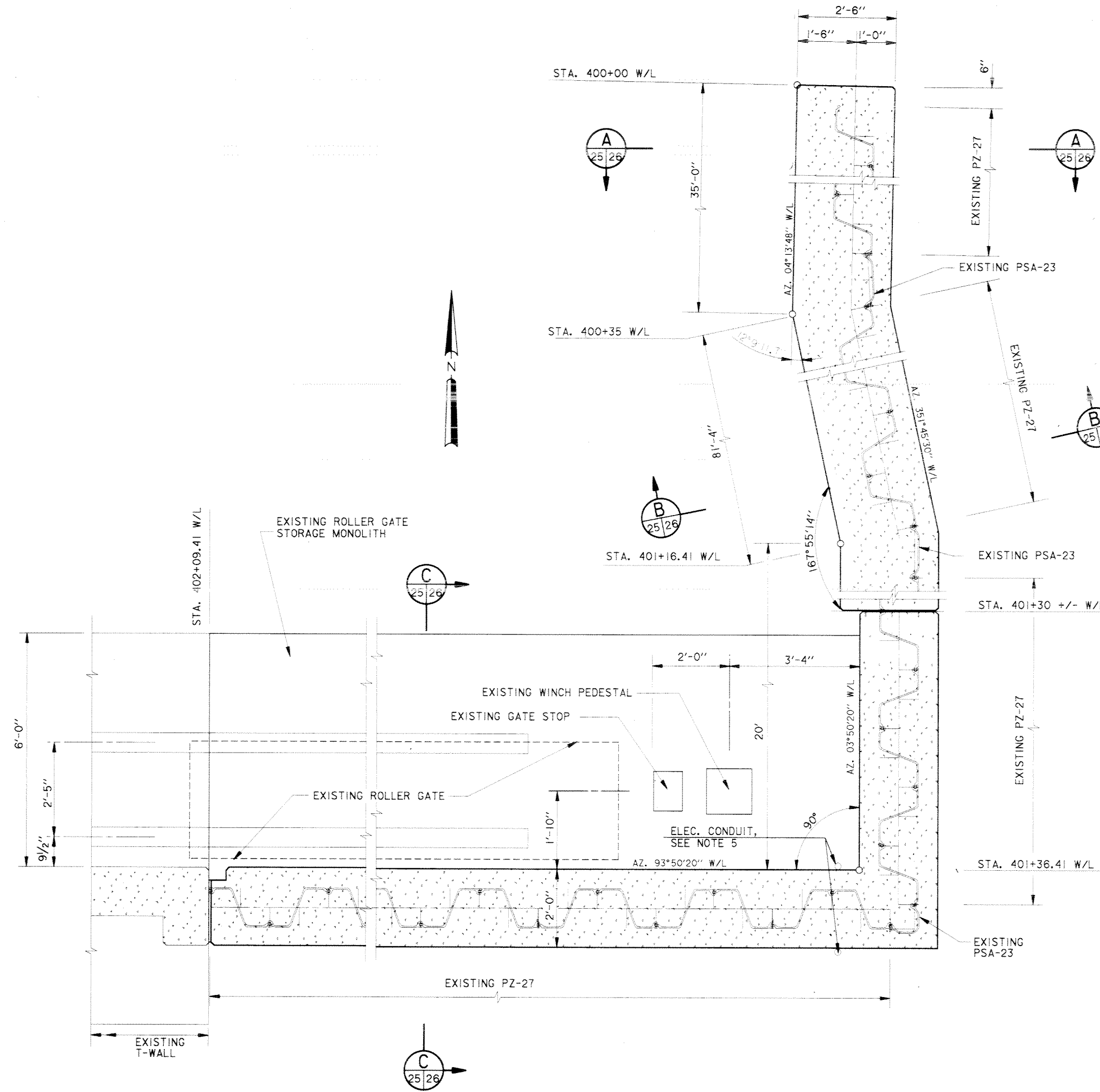
N.T.S.



CHANGES TO I-WALL SECTION AND PROFILE		7-17-98	R.M.D.
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE FRONTONAL, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PROFILE AND TYPICAL SECTIONS                  VICINITY OF COLLINS PIPELINE</b>			
DESIGNED BY: G. BRIDGES	DATE: MARCH 97	PLAT SCALE: 1" = 20'	PLAT DATE: DEC 97
DRAWN BY: L. BRIDGES	CHECKED BY: G. BRIDGES	ISSUED FOR: CONTRACTOR	FILE NO.: H-8-44577
APPROVED BY: G. BRIDGES	SOLICITATION NO. DACT29-97-8-0075	PAGE 24 OF 49	

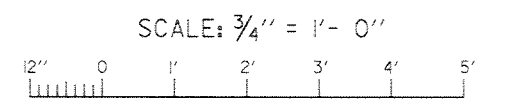


Safety is a Part of Your Contract

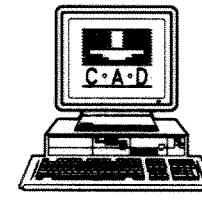


PLAN  
SCALE: 3/4" = 1'-0"

- NOTES:
- BETWEEN STA. 400+35 W/L AND STA. 401+16.41 W/L, SHEET PILING C/L MAY BE OUT OF ALIGNMENT UP TO 6" TO THE FLOODSIDE.
  - BETWEEN STA. 402+00 W/L AND STA. 401+50 W/L, SHEET PILING C/L MAY BE OUT OF ALIGNMENT UP TO 4" TO THE FLOODSIDE.
  - TO PROVIDE SUFFICIENT REINFORCEMENT CLEARANCE, SHEET PILING BETWEEN STA. 402+00 W/L AND STA. 401+50 W/L, WHICH ARE WITHIN 4" OF THE STORAGE MONOLITH, SHALL BE CUT TO EL. 6.5.
  - ANY DAMAGES TO THE EXISTING ROLLER GATE, GATE STOP, OR GATE WINCH PEDESTAL RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT HIS EXPENSE.
  - ELECTRICAL CONDUIT LOCATED AT STA. 401+37± W/L SHALL BE TEMPORARILY RELOCATED OUTSIDE FINISHED WALL. SEE DWG. 46 FOR FINAL RELOCATION DETAILS.
  - DURING CONSTRUCTION THE EXISTING ROLLER GATE SHALL BE STORED AT THE LAKE MARINA WORKSITE AS SHOWN ON DWG. 3. ROLLER GATE SHALL BE PLACED LEVEL ON CRANE MATS DURING STORAGE TO PREVENT GATE DEFORMATION. (APPROXIMATE GATE WEIGHT = 15 TONS.)
  - STEEL PLATE AT STA. 401+43± SHALL BE REMOVED BY THE CONTRACTOR. THE #6 REINFORCING BAR ON THE EXISTING SHEET PILING SHALL BE REMOVED WITH THE CUT PORTIONS OF THE SHEET PILING. ALL REMOVED STEEL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

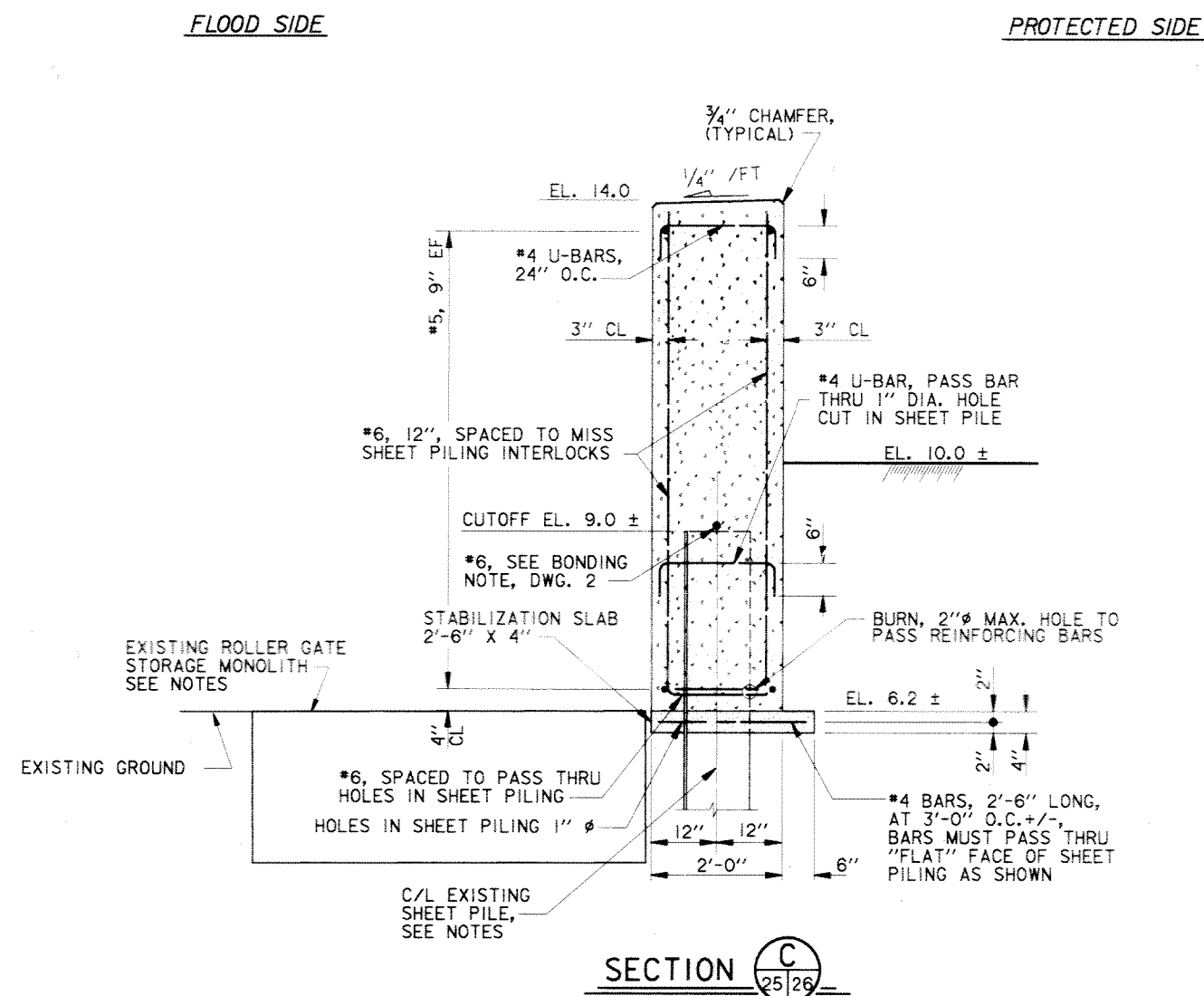
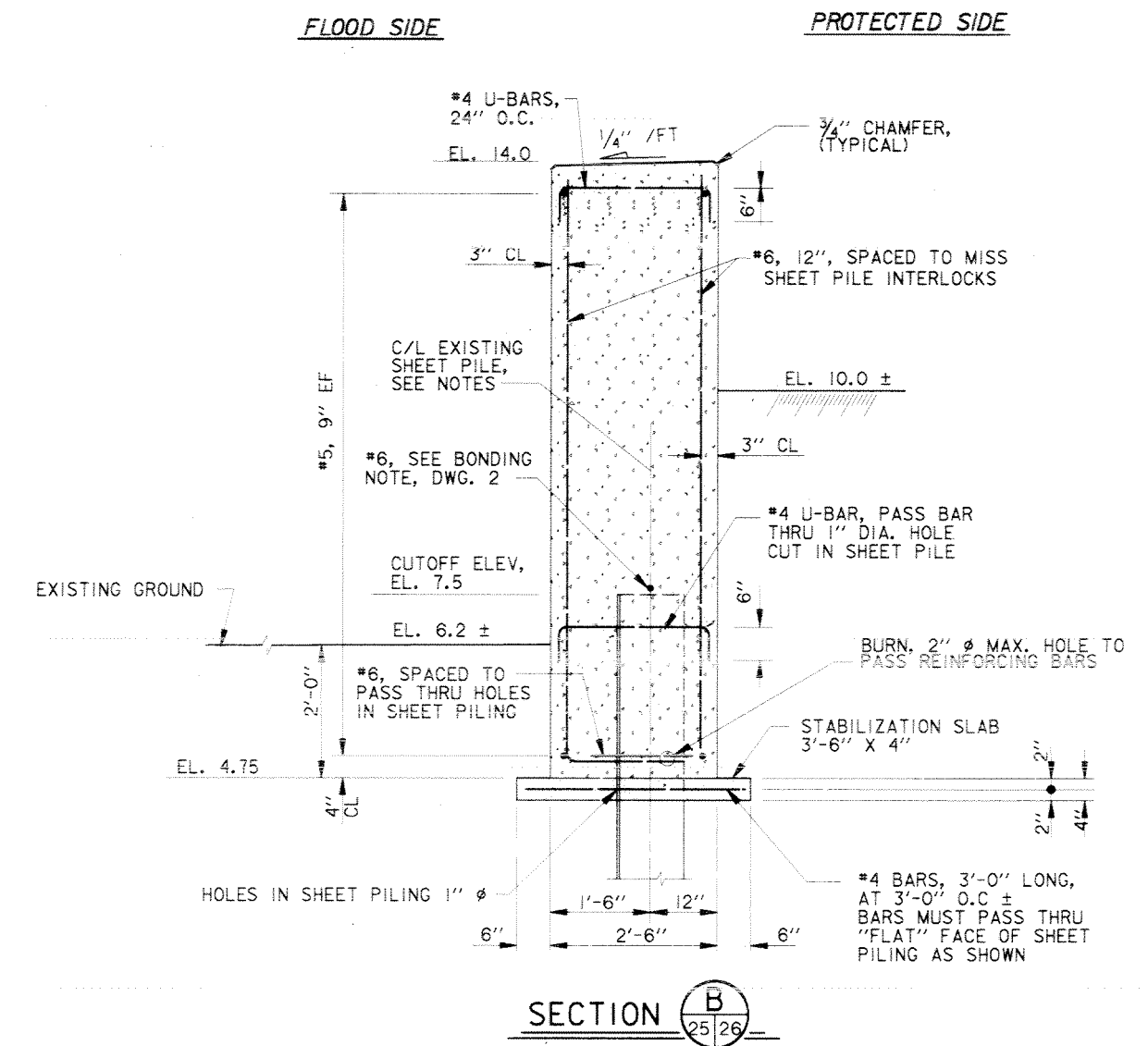
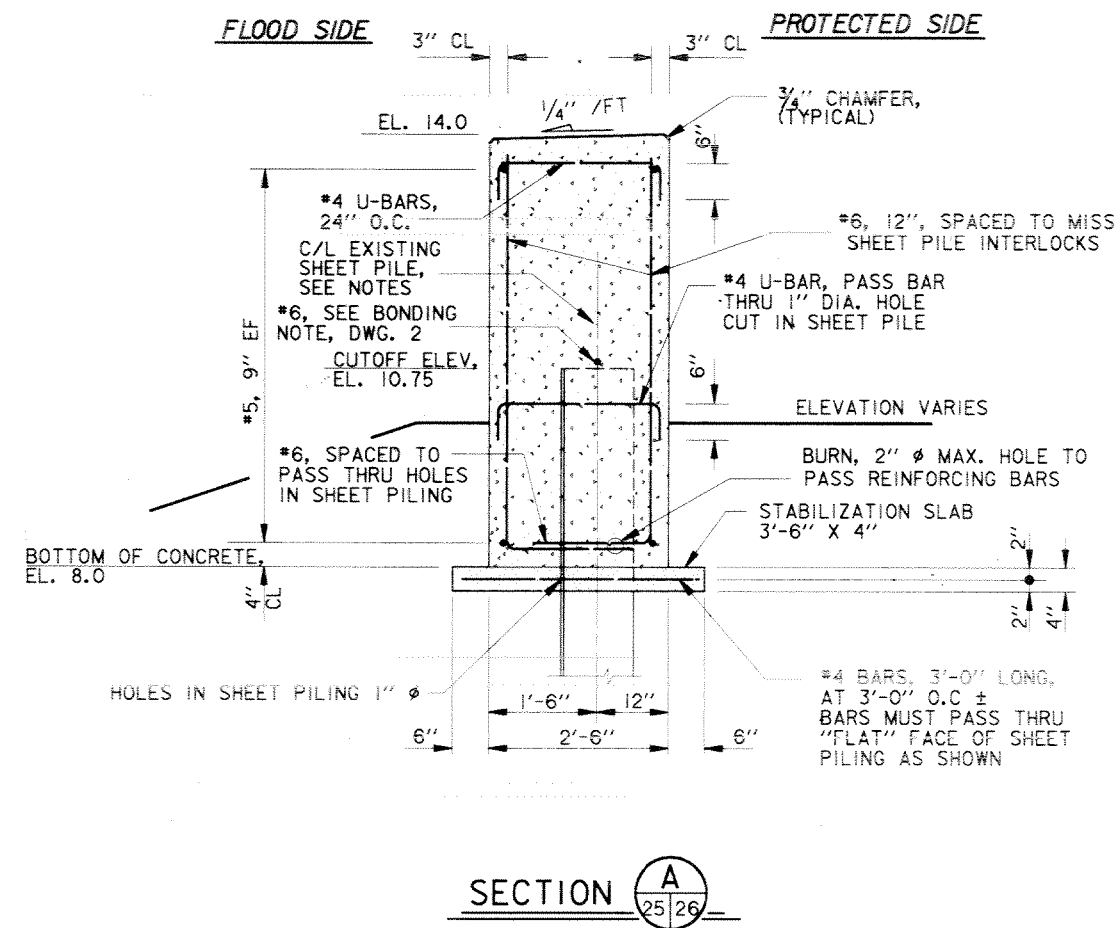


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>DETAILED PLAN</b> <b>VICINITY OF LAKE MARINA AVE.</b>			
DESIGNED BY: R. GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CADD FILE: 44577P25.DGN	FILE NO. H-8-44577	
CHECKED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 25 OF 49	
SUBMITTED BY: R. GRUBB DESIGN ENGINEER			

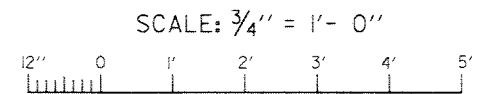




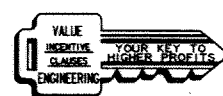
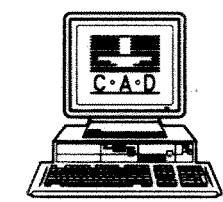
**Safety is a Part  
of Your Contract**



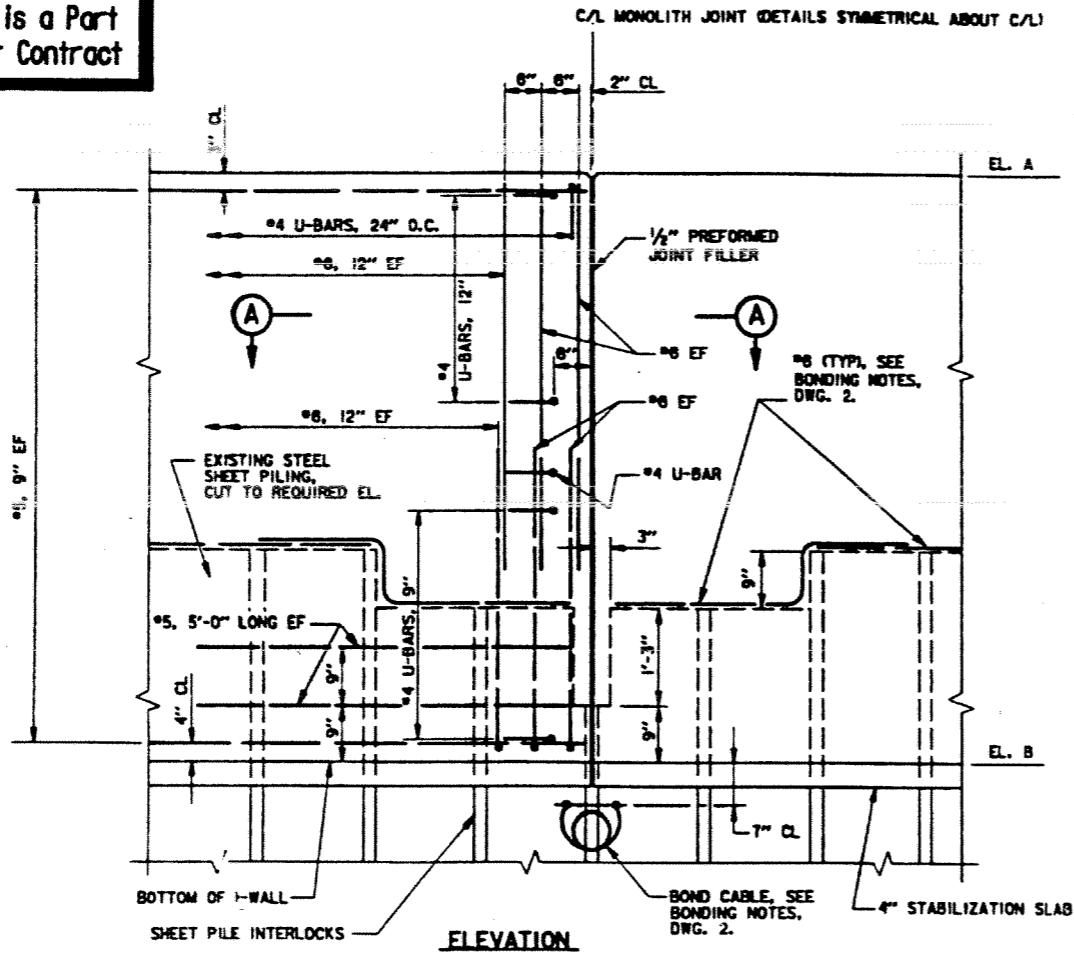
- NOTES:
- BETWEEN STA. 400+35 W/L AND STA. 401+16.41 W/L, SHEET PILING C/L MAY BE OUT OF ALIGNMENT UP TO 6" TO THE FLOODSIDE.
  - BETWEEN STA. 402+00 W/L AND STA. 401+50 W/L, SHEET PILING C/L MAY BE OUT OF ALIGNMENT UP TO 4" TO THE FLOODSIDE.
  - SHEET PILING BETWEEN STA. 402+00 W/L AND STA. 401+50 W/L, WHICH ARE WITHIN 4" OF THE STORAGE MONOLITH, SHALL BE CUT TO EL. 6.5.
  - ANY DAMAGES TO THE EXISTING ROLLER GATE, GATE STOP, OR GATE WINCH PEDESTAL RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR, AT HIS EXPENSE.
  - EXISTING ROLLER GATE NOT SHOWN FOR CLARITY.
  - DURING CONSTRUCTION THE EXISTING ROLLER GATE SHALL BE STORED ON SITE.
  - FOR OVERALL PLAN, SEE DWG. 3.
  - FOR PROFILE, SEE DWG. 13.



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE			
<b>I-WALL REINFORCEMENT</b> <b>VICINITY LAKE MARINA AVE.</b>			
DESIGNED BY: B. GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L. MACEE	CADD FILE: 44577P26.DGN	FILE NO. H-4-44577	
CHECKED BY: J. ROMERO	SUBMITTED BY: R. GRUBB, DESIGN ENGINEER		
SOLICITATION NO. DACW29-97-B-0075		DWG. 26 OF 49	



**Safety is a Part  
of Your Contract**

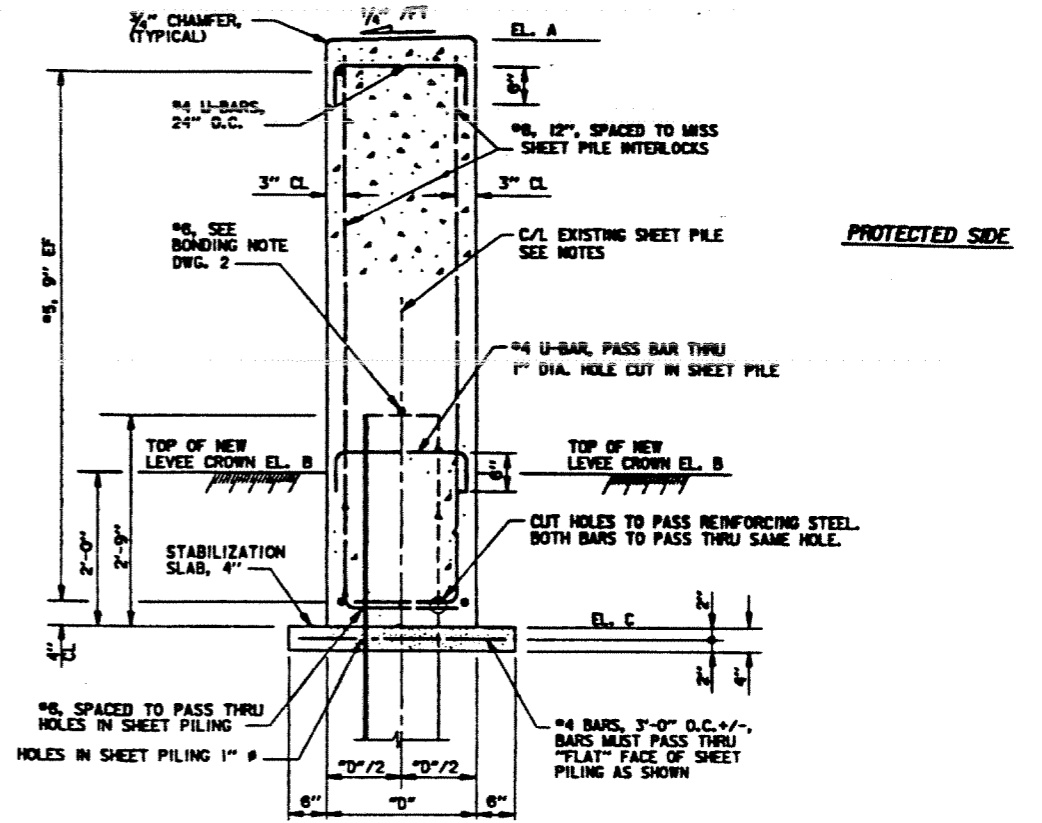


NOTES:  
JOINT DETAIL SHALL BE  
USED FOR ALL RECTANGULAR  
SHAPED I-WALLS.

**DETAIL OF I-WALL MONOLITH JOINTS**

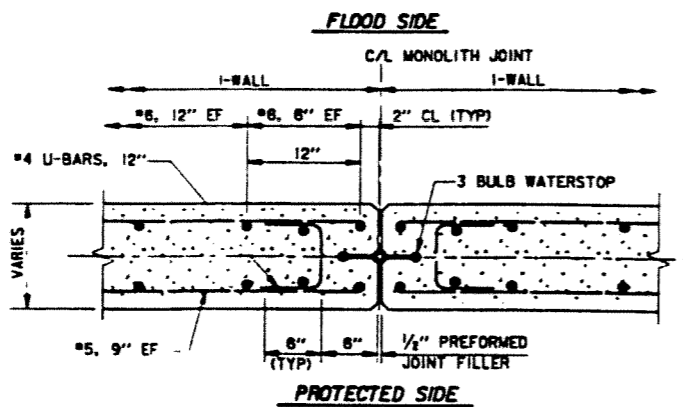
SCALE: 1" = 1'- 0"

**FLOOD SIDE**



**TYPICAL REINFORCEMENT**

SCALE: 1" = 1'- 0"



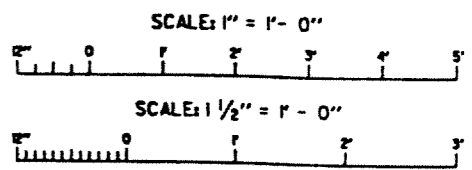
**SECTION A**

**TYPICAL REINFORCEMENT AT MONOLITH JOINTS**

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

ELEVATION SCHEDULE Δ			
LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE "D"	ELEVATIONS	
		A	B & C
TOPAZ ST. FLOODGATE	2'-3"	19.0	EL. VARIES, SEE PROFILE, DWG. 15
BAYOU ST. JOHN (WEST)	2'-8"	18.0	EL. VARIES, SEE PROFILE, DWG. 17
BAYOU ST. JOHN (EAST)	2'-8"	18.5	EL. VARIES, SEE PROFILE, DWG. 18
CAMP LEROY JOHNSON	2'-0"	18.5	EL. VARIES, SEE PROFILE, DWG. 20
COLLINS PIPELINE	2'-2"	22.0	EL. VARIES, SEE PROFILE, DWG. 24

- NOTES:
- FOR GENERAL NOTES, SEE DWG. 2.
  - FOR PROFILES AND TYPICAL SECTIONS, SEE DWGS. 13 THRU 24.
  - FOR TYPICAL WALL REINFORCEMENT, SEE DWGS. 25 THRU 39.
  - FOR MISCELLANEOUS DETAILS, SEE DWGS. 40 THRU 49.
  - FOR PLANS, SEE DWGS. 3 THRU 12.
  - FOR THE BAYOU ST. JOHN WORKSITE, 2-#8 BARS WILL BE REQUIRED ON TOP OF SHEET PILING.



REVISED ELEVATION SCHEDULE

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

LAKE FRONTON, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.M.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

**I-WALL REINFORCEMENT  
FOR RECTANGULAR I-WALLS**

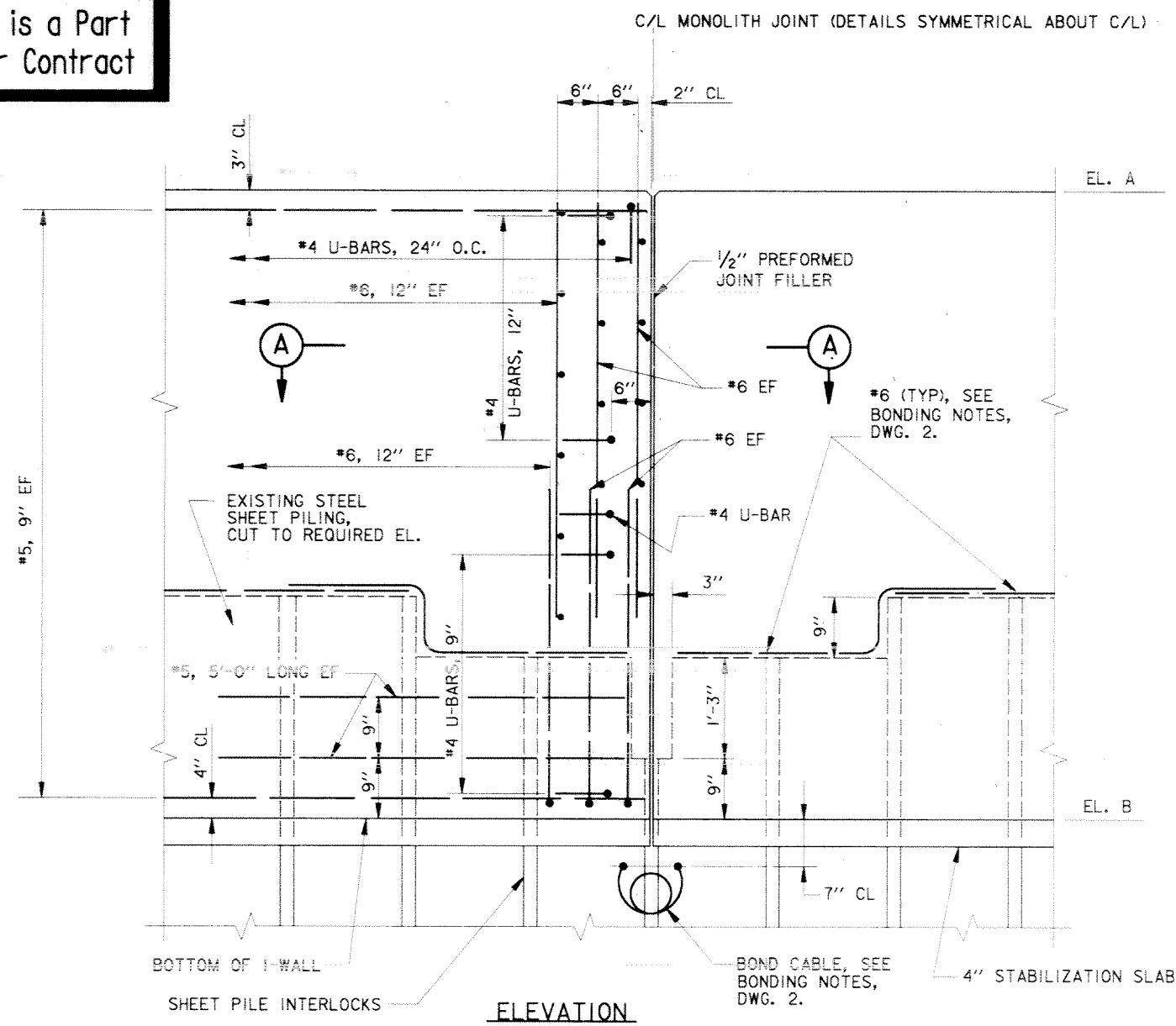
DESIGNED BY: D. GIBSON  
CHECKED BY: L. BARRIS

DATE: MARCH 97  
DWG. P.L.S. CONTROLLED

PLAT SCALE: 1/2" = 1'- 0"  
PLAT DATE: DEC 97

PROJECT NO. 4-44577

Safety is a Part of Your Contract

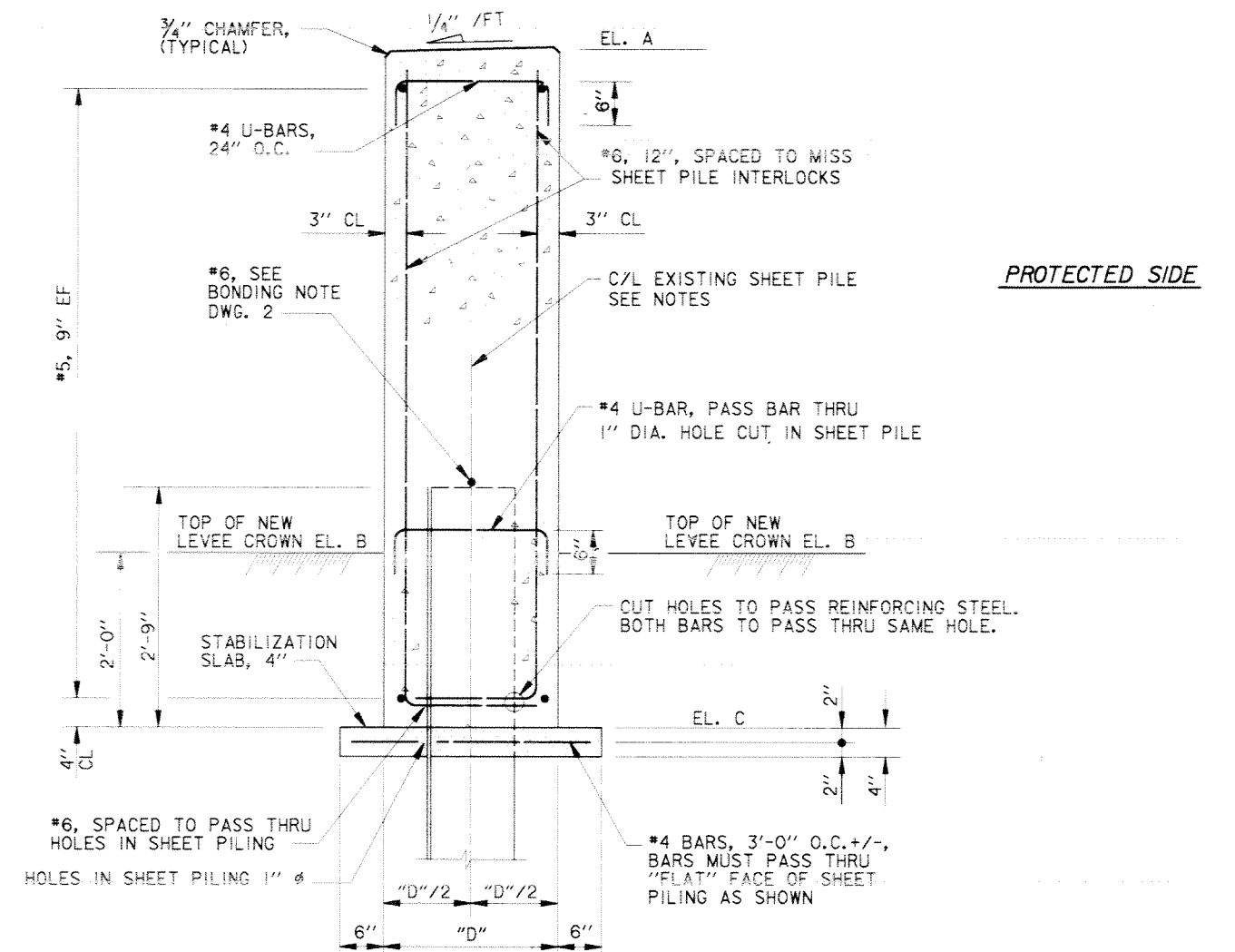


NOTES:  
JOINT DETAIL SHALL BE USED FOR ALL RECTANGULAR SHAPED I-WALLS.

**DETAIL OF I-WALL MONOLITH JOINTS**

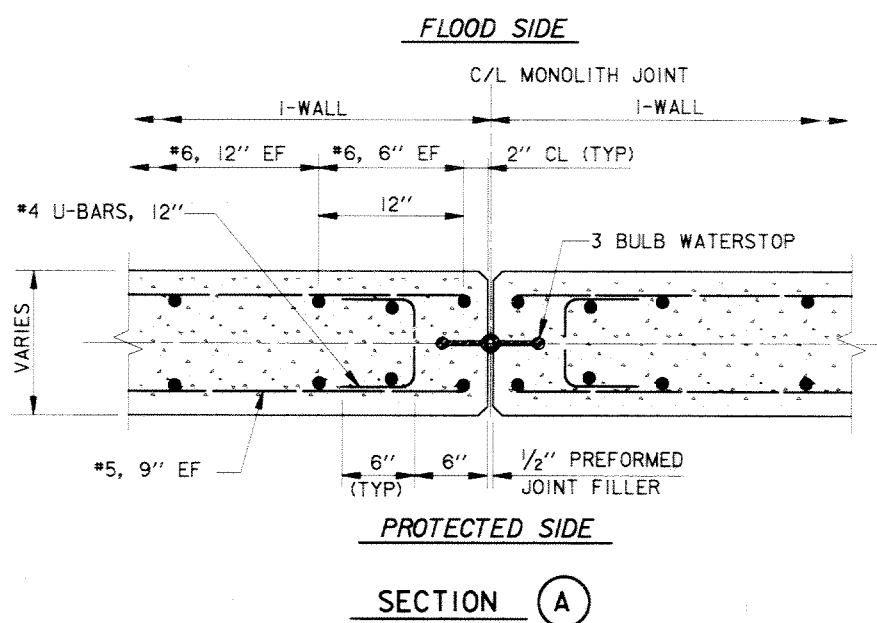
SCALE: 1" = 1'- 0"

FLOOD SIDE



**TYPICAL REINFORCEMENT**

SCALE: 1" = 1'- 0"



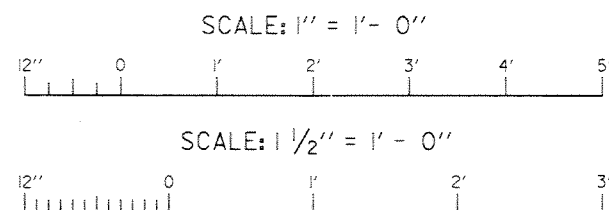
**TYPICAL REINFORCEMENT AT MONOLITH JOINTS**

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

ELEVATION SCHEDULE				
LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE "D"	ELEVATIONS		
		A	B & C	
TOPAZ ST. FLOODGATE	2'-3"	19.0	EL. VARIES, SEE PROFILE, DWG. 15	
BAYOU ST. JOHN (WEST)	2'-6"	18.0	EL. VARIES, SEE PROFILE, DWG. 17	
BAYOU ST. JOHN (EAST)	2'-6"	18.5	EL. VARIES, SEE PROFILE, DWG. 18	
CAMP LEROY JOHNSON	2'-0"	18.5	EL. VARIES, SEE PROFILE, DWG. 20	

NOTES:

- FOR GENERAL NOTES, SEE DWG. 2.
- FOR PROFILES AND TYPICAL SECTIONS, SEE DWGS. 13 THRU 24.
- FOR TYPICAL WALL REINFORCEMENT, SEE DWGS. 25 THRU 39.
- FOR MISCELLANEOUS DETAILS, SEE DWGS. 40 THRU 49.
- FOR PLANS, SEE DWGS. 3 THRU 12.
- FOR THE BAYOU ST. JOHN WORKSITE, 2-#6 BARS WILL BE REQUIRED ON TOP OF SHEET PILING.

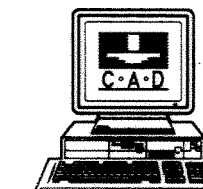


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

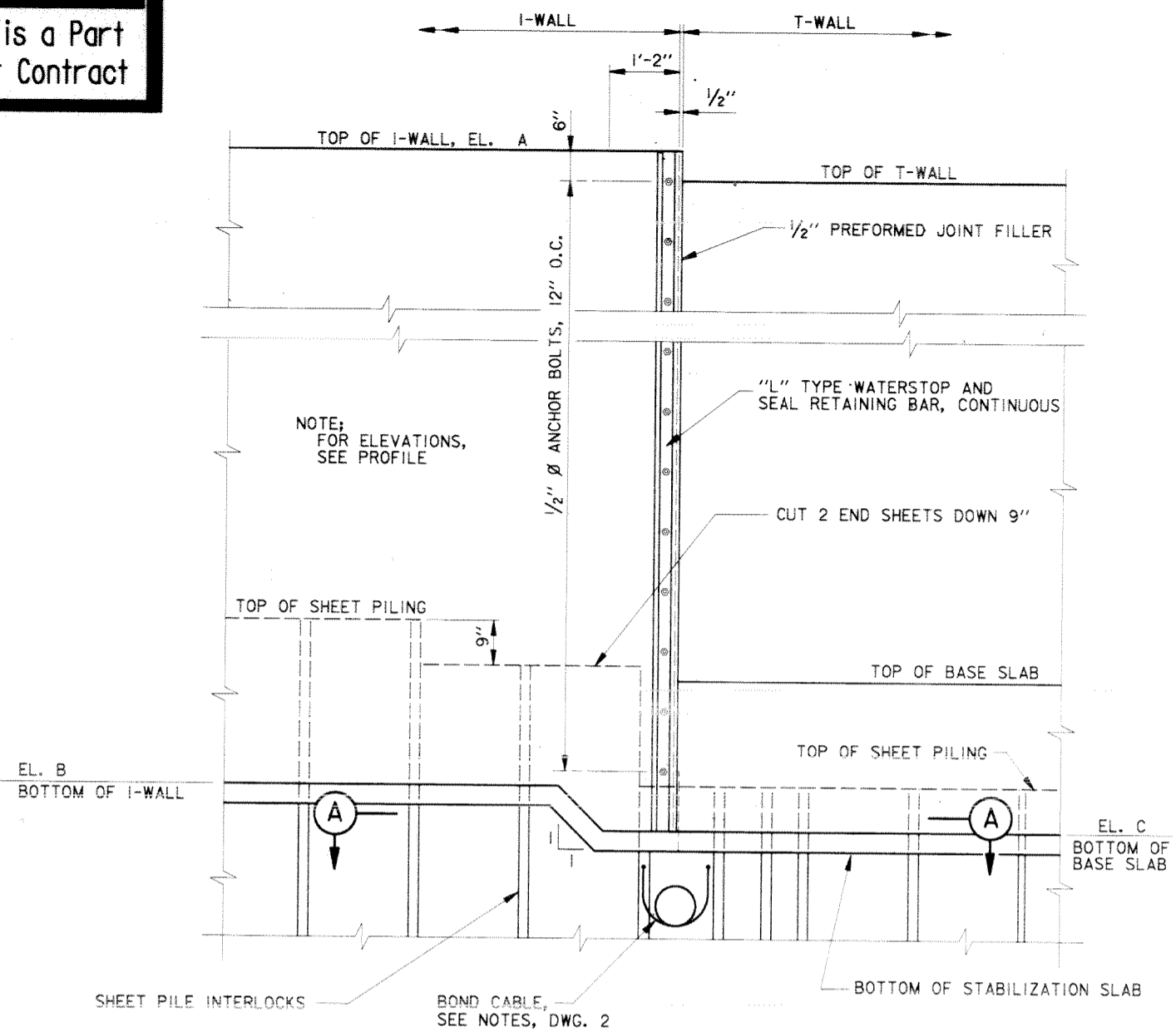
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS  
CORPS OF ENGINEERS  
NEW ORLEANS, LOUISIANA  
LAKE PONCHATRAN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

**I-WALL REINFORCEMENT FOR RECTANGULAR I-WALLS**

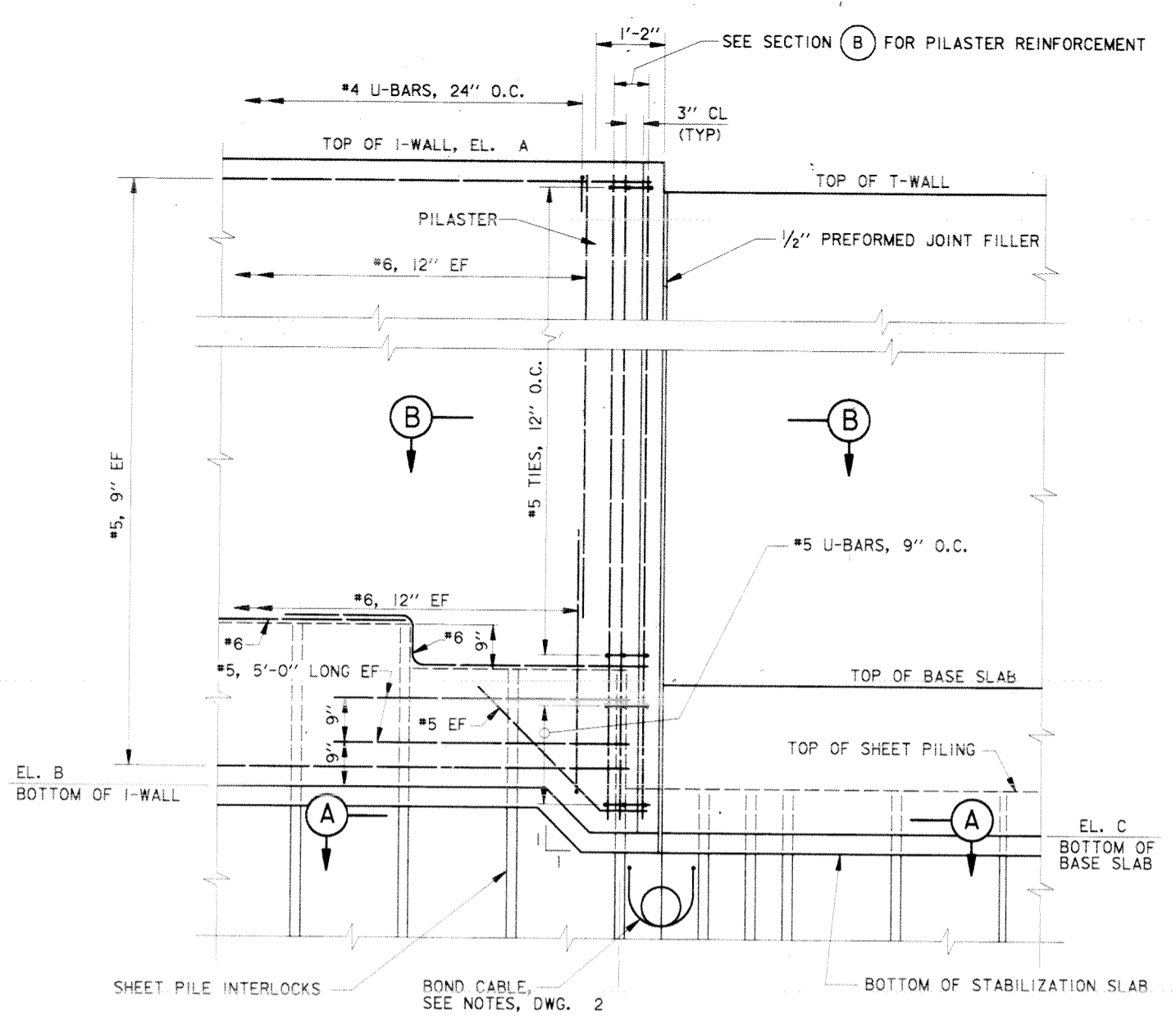
DESIGNED BY: B. GRUBB	DATE: MARCH 97	PLOT SCALE: 12	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CHECKED BY: J. ROMERO	CADD FILE: 4457P27.DGN	FILE NO. H-4-44577
SUBMITTED BY: R. GRUBB DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075	DWG. 27 OF 49	



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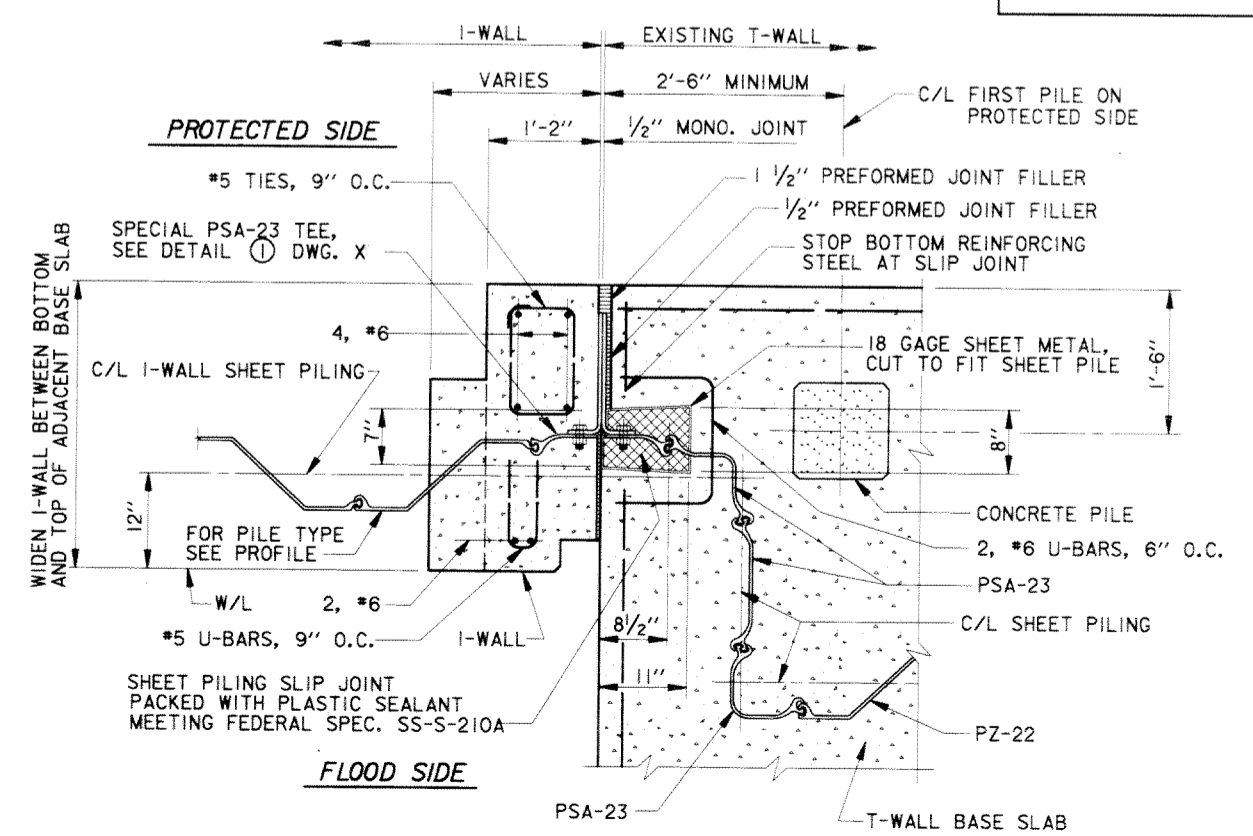
**FLOOD SIDE ELEVATION  
I-WALL TO T-WALL**  
SCALE: 3/4" = 1'-0"



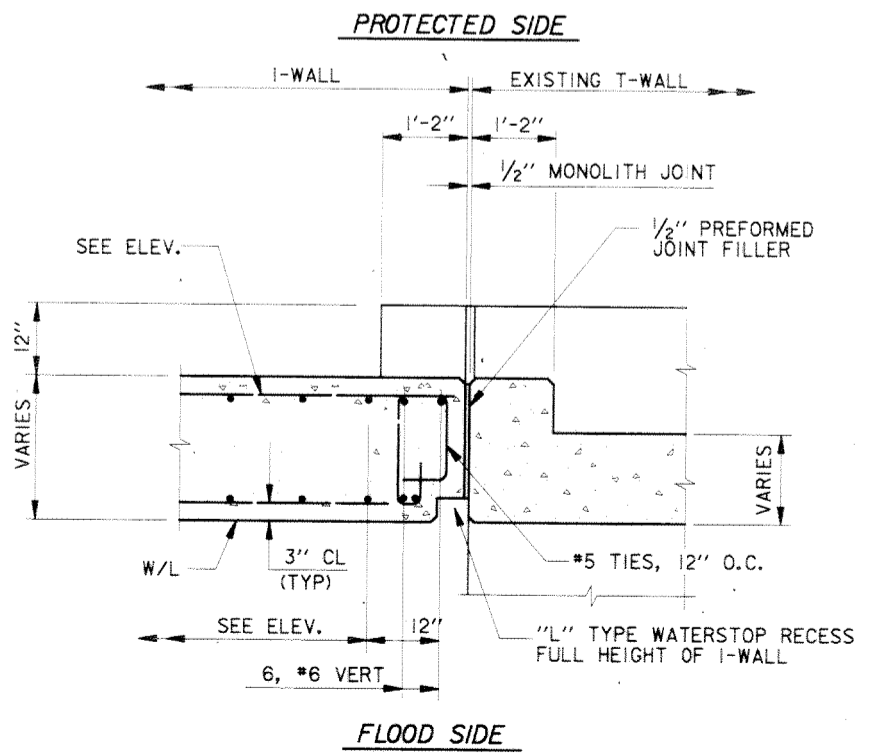
**FLOOD SIDE ELEVATION  
REINFORCEMENT  
I-WALL TO T-WALL**  
SCALE: 3/4" = 1'-0"

LOCATION (SEE PROFILES FOR STATIONS)	ELEVATIONS	
	A	B & C
LAKE MARINA AVE.	14.0	EL. VARIES, SEE PROFILE, DWG. 13
TOPAZ ST. FLOODGATE	19.0	EL. VARIES, SEE PROFILE, DWG. 15

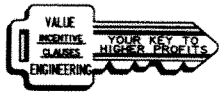
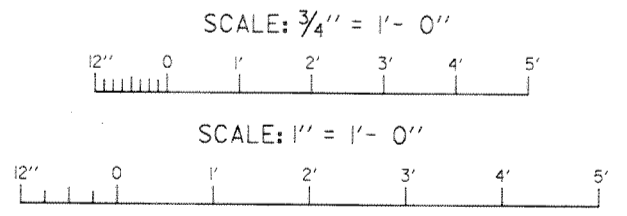
- NOTES:
- FOR GENERAL NOTES, SEE DWG. 2.
  - FOR PROFILES AND TYPICAL SECTIONS, SEE DWG. 5.
  - FOR PLANS, SEE DWGS 3 AND 4.



**SECTION A**  
SCALE: 1" = 1'-0"

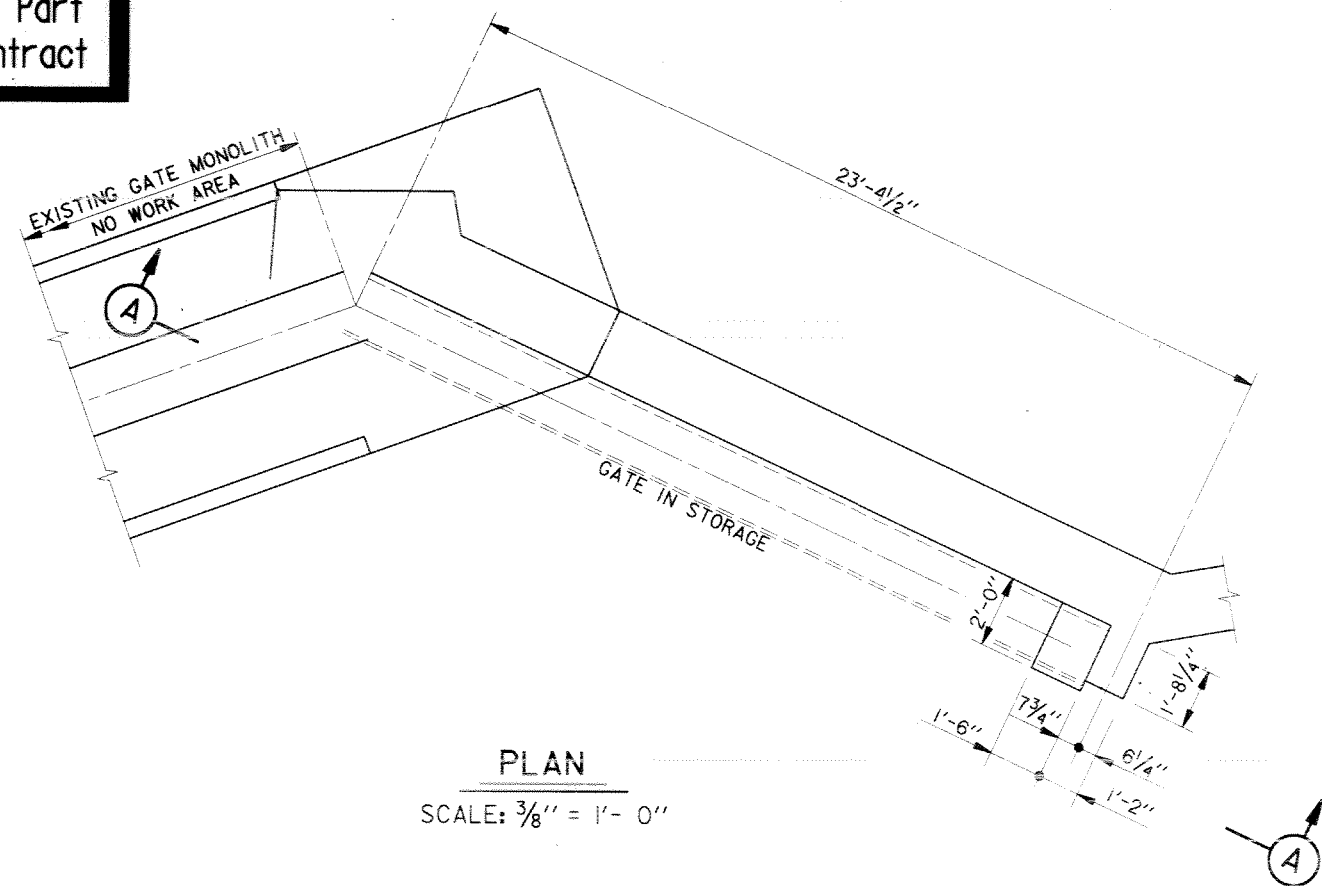


**SECTION B**  
SCALE: 3/4" = 1'-0"

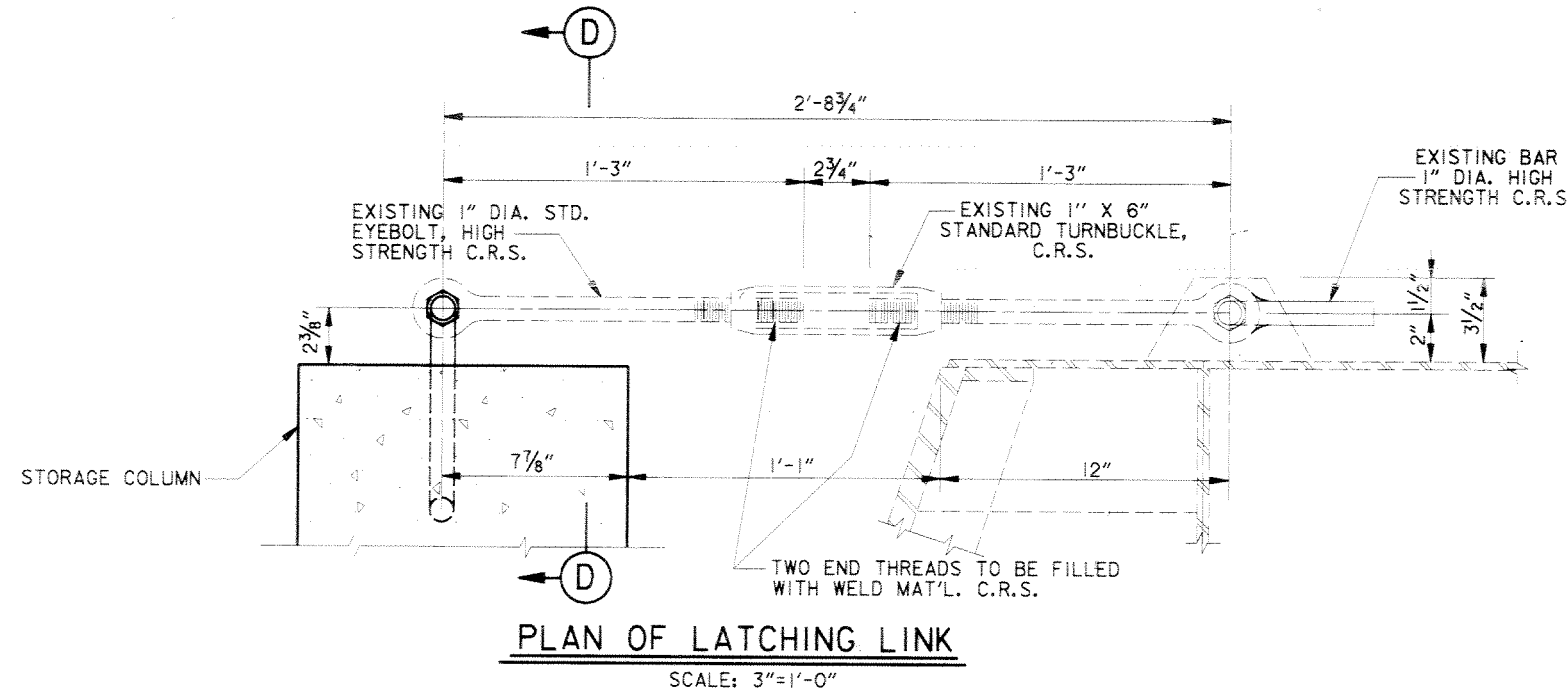


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>I-WALL JOINTS</b> <b>TYPICAL DETAILS - VICINITY OF LAKE MARINA AVE. &amp; TOPAZ STREET</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P28.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 28 OF 49

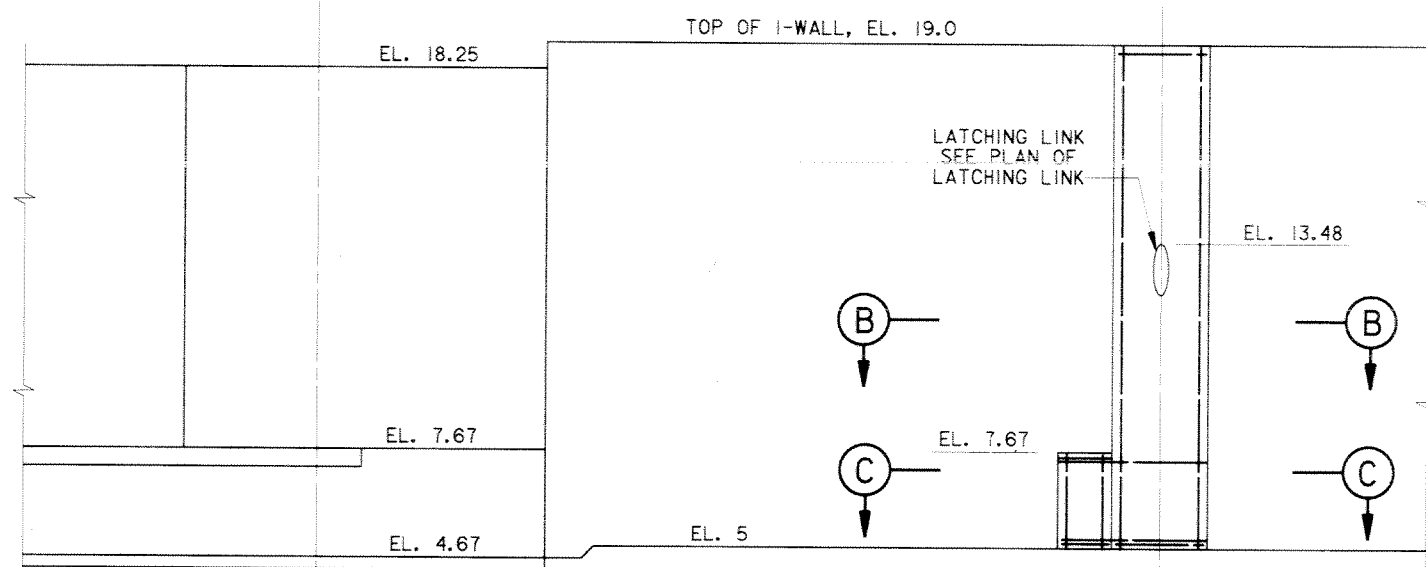
Safety is a Part of Your Contract



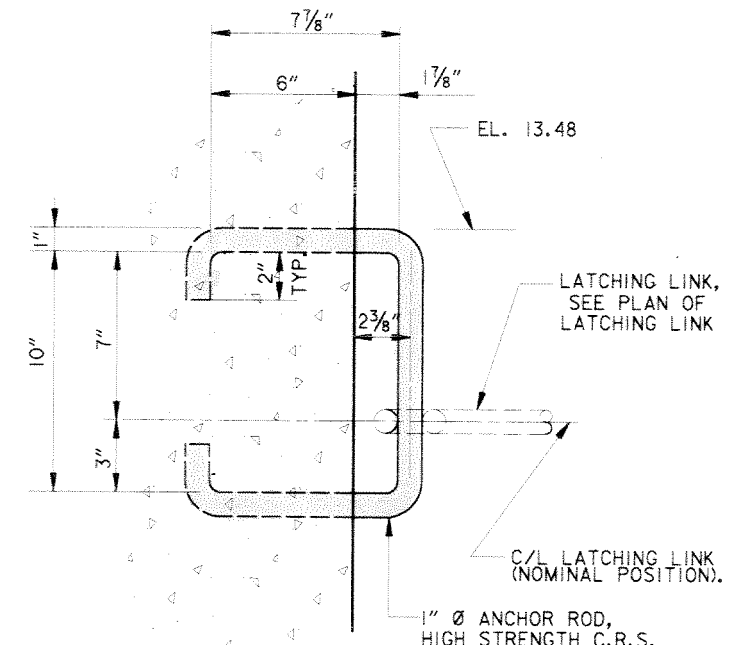
PLAN  
SCALE: 3/8" = 1'- 0"



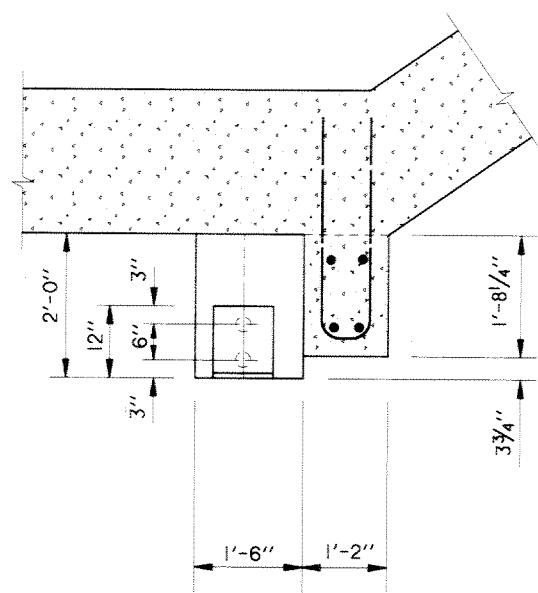
PLAN OF LATCHING LINK  
SCALE: 3/4" = 1'- 0"



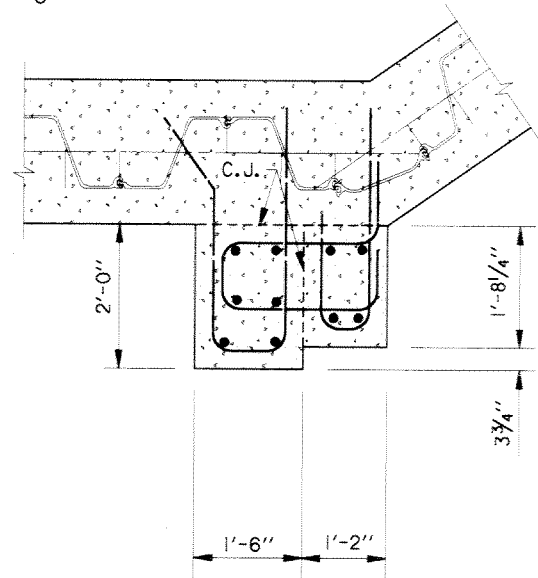
SECTION A  
SCALE: 3/8" = 1'- 0"



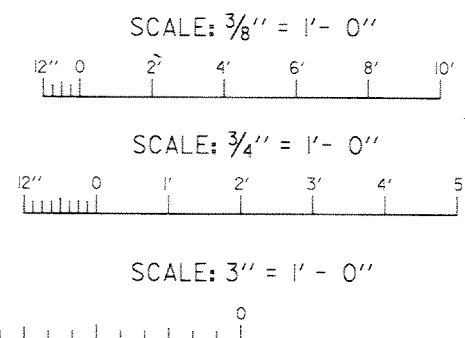
SECTION D  
SCALE: 3/4" = 1'- 0"



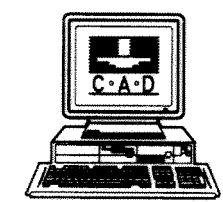
SECTION B  
SCALE: 3/4" = 1'- 0"



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

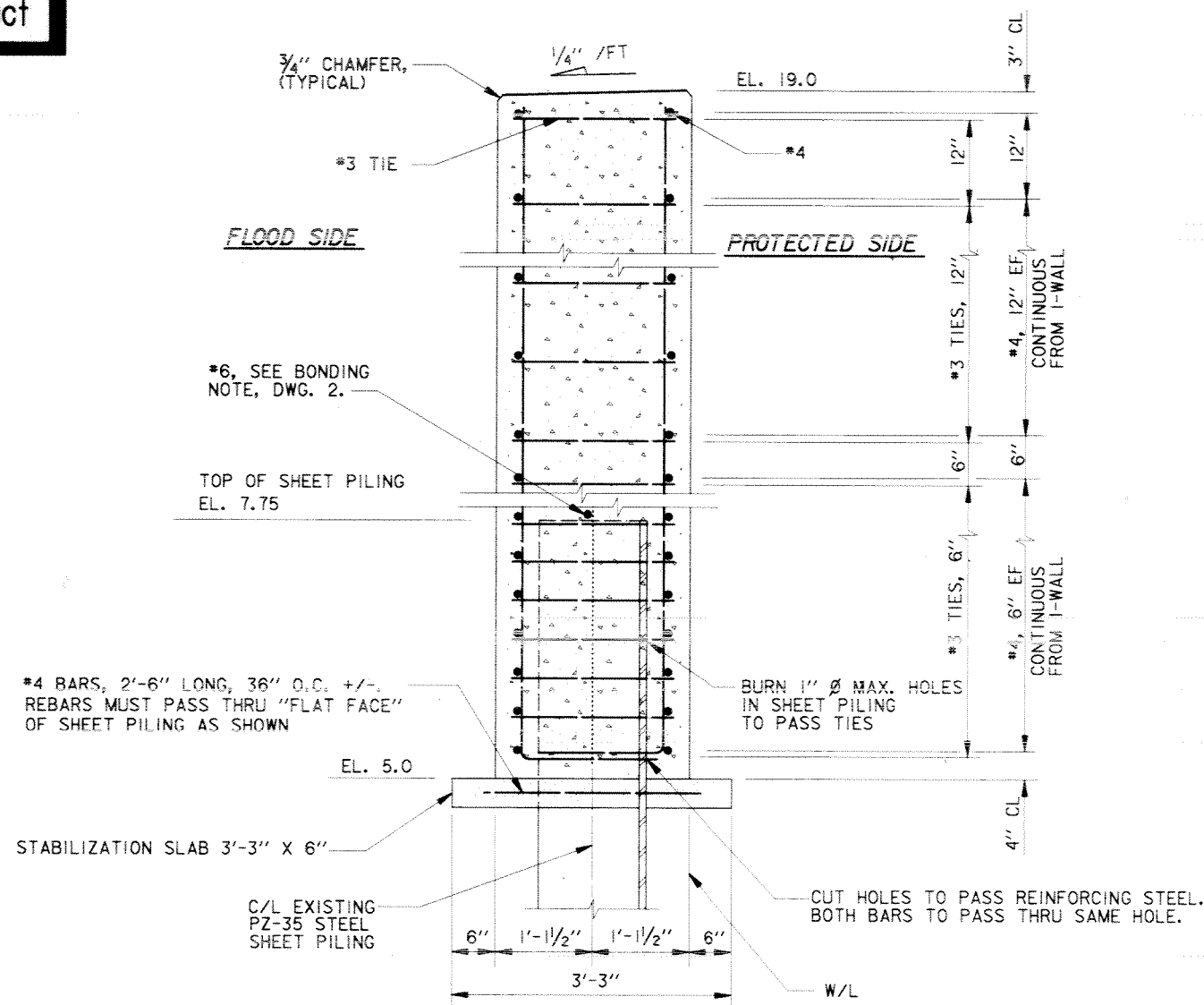


- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWG. 4.
  3. FOR PROFILE AND TYPICAL SECTIONS, SEE DWG. 15.



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>STORAGE MONOLITH DETAILS</b> <b>VICINITY TOPAZ ST. GATE</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 32	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577929.DGN		FILE NO. H-8-44577
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 29 OF 49
	DESIGN ENGINEER		

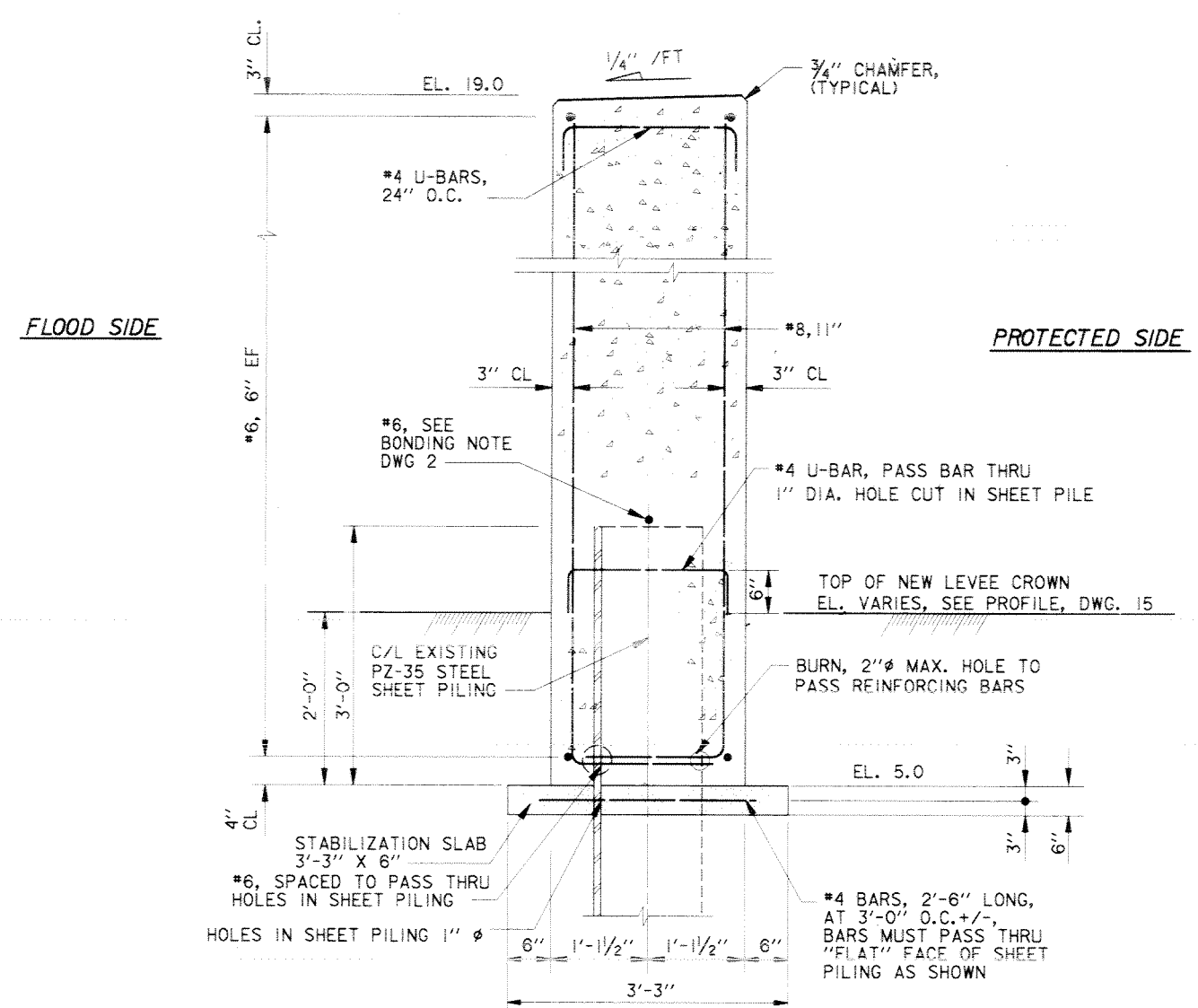
Safety is a Part of Your Contract



STA. 351+31 W/L TO STA. 351+24 W/L  
 STA. 350+68 W/L TO STA. 350+62 W/L

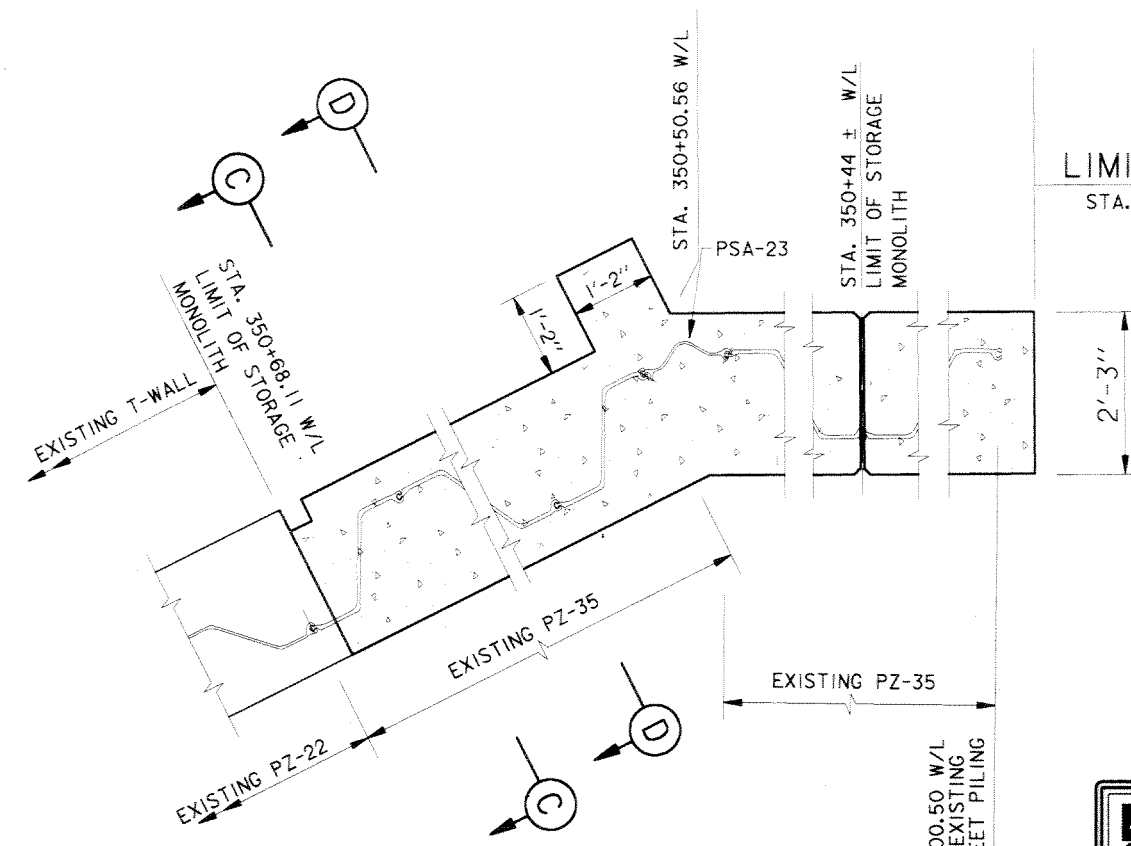
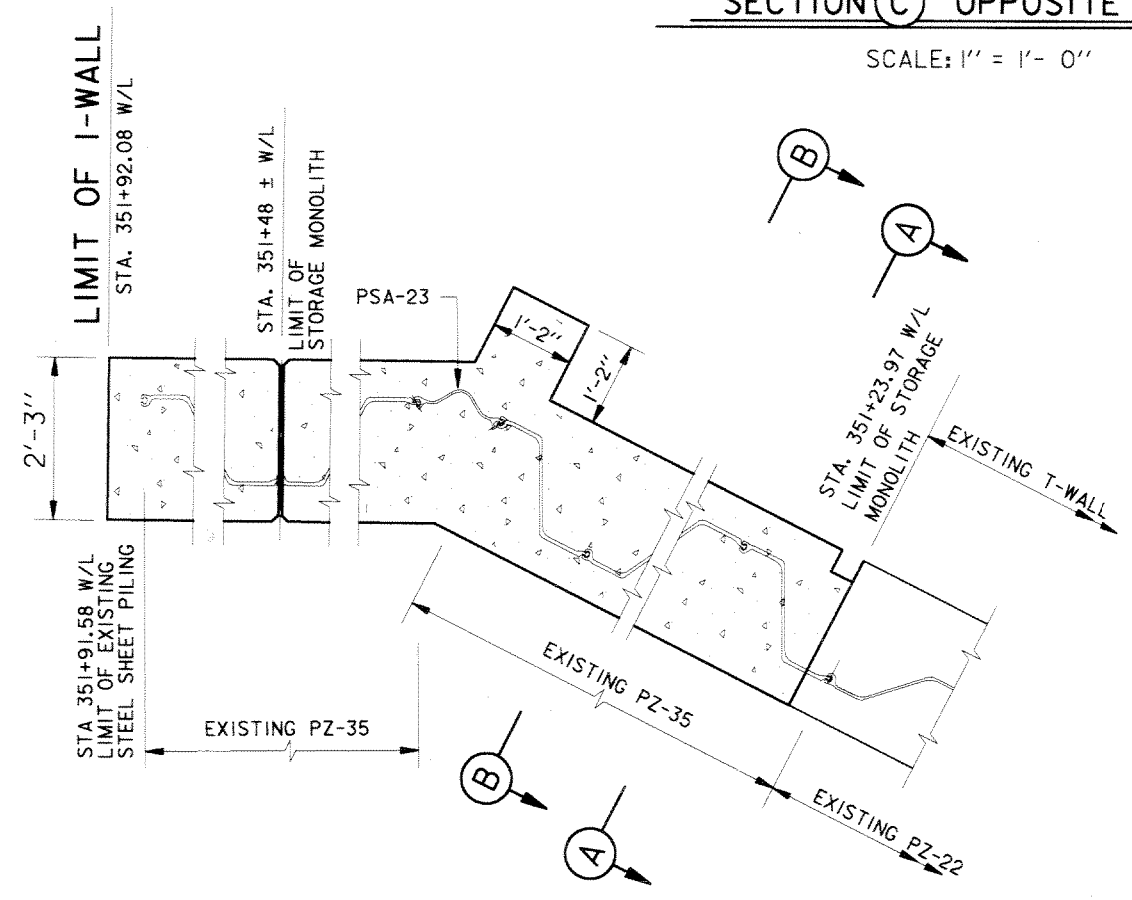
SECTION (A) SHOWN  
 SECTION (C) OPPOSITE HAND

SCALE: 1" = 1'- 0"



SECTION (B) SHOWN  
 SECTION (D) OPPOSITE HAND

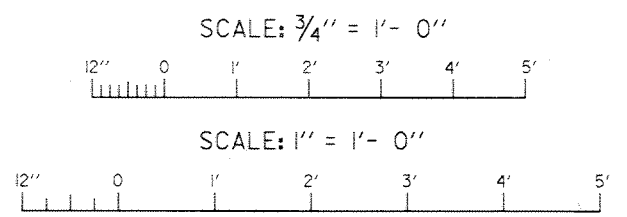
SCALE: 1" = 1'- 0"



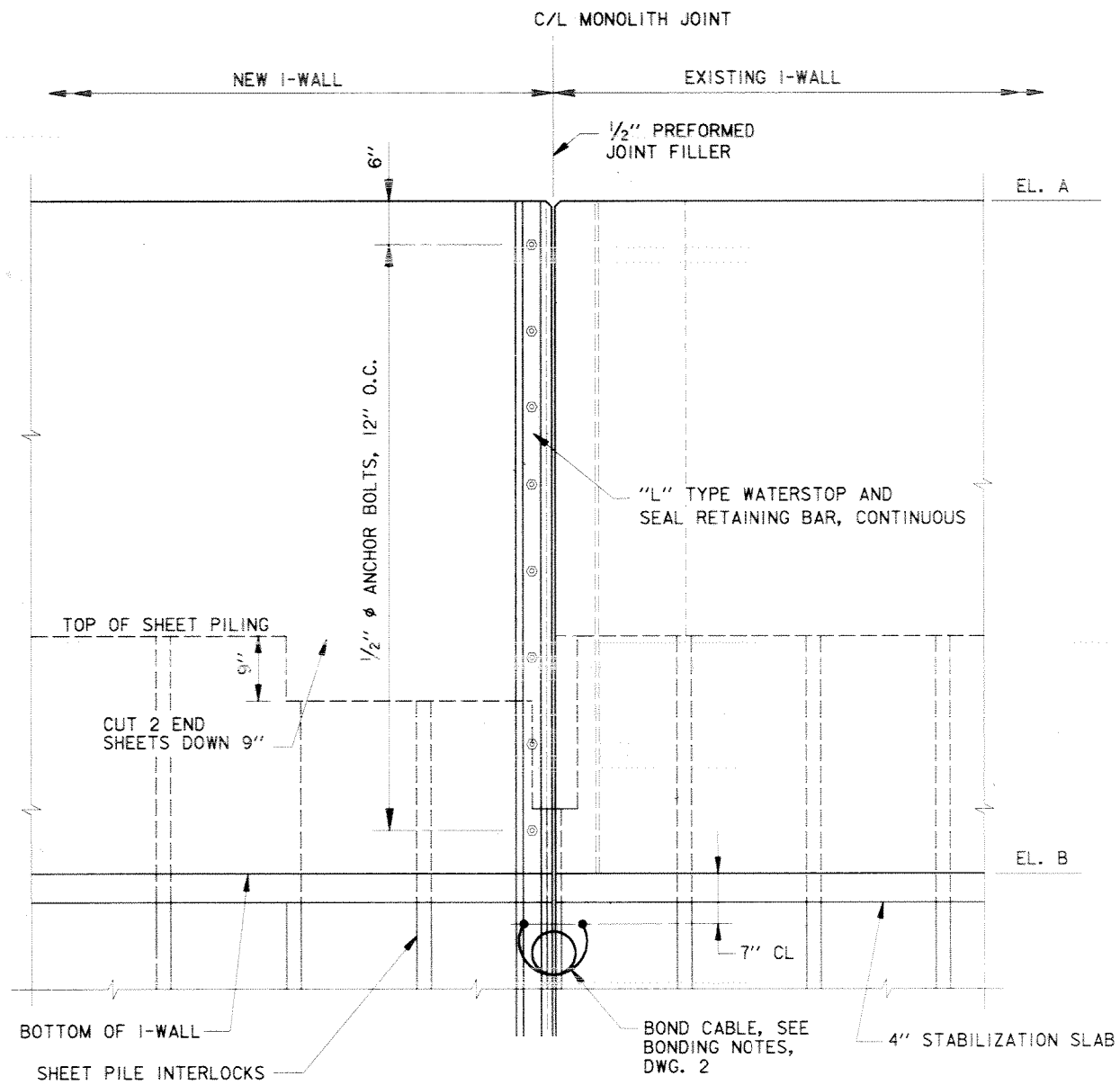
PARTIAL PLAN

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

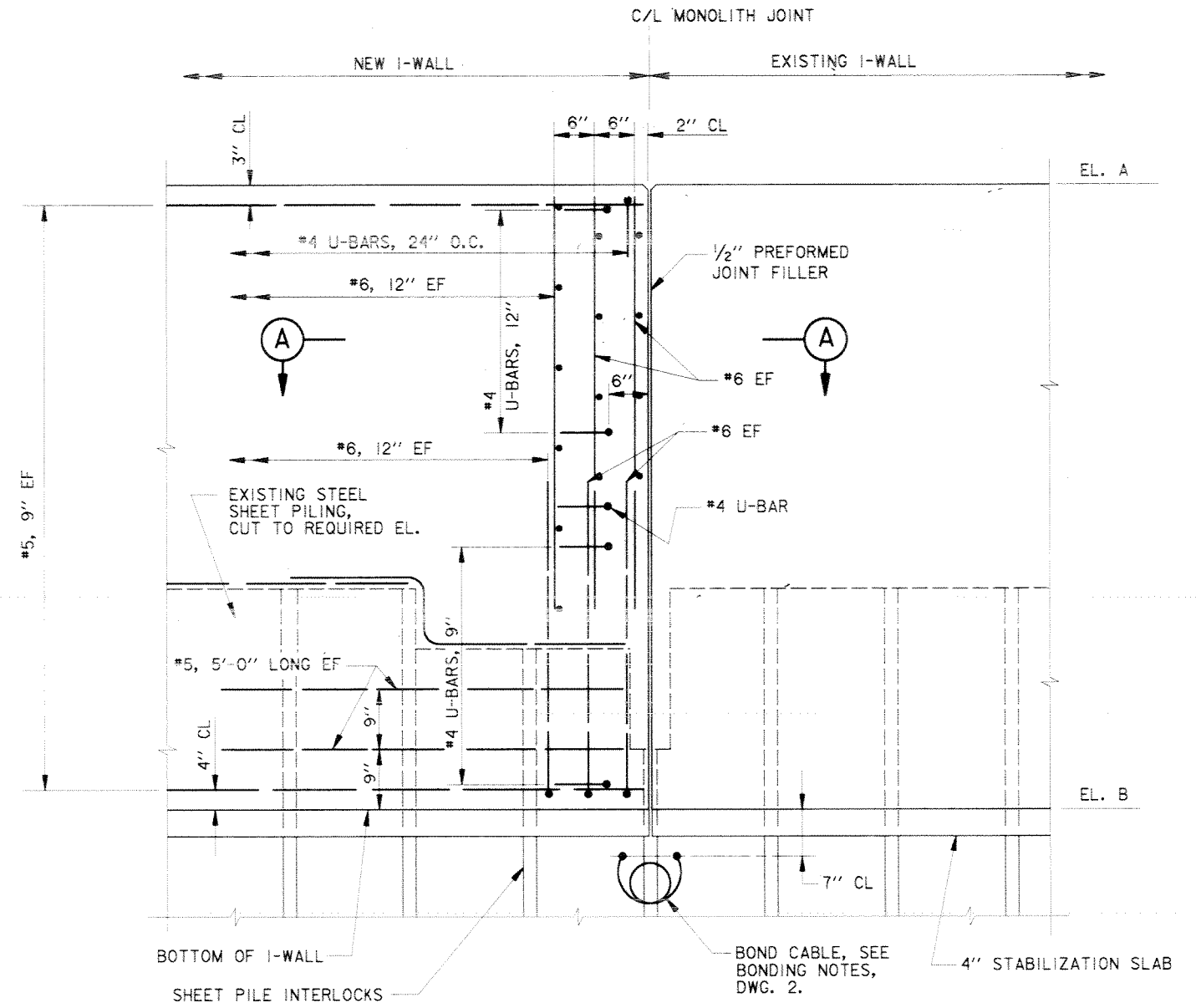
- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PROFILE AND TYPICAL SECTIONS, SEE DWG. 15.
  3. FOR TYPICAL WALL JOINTS, SEE DWG. 28.
  4. FOR PLAN, SEE DWG. 4.



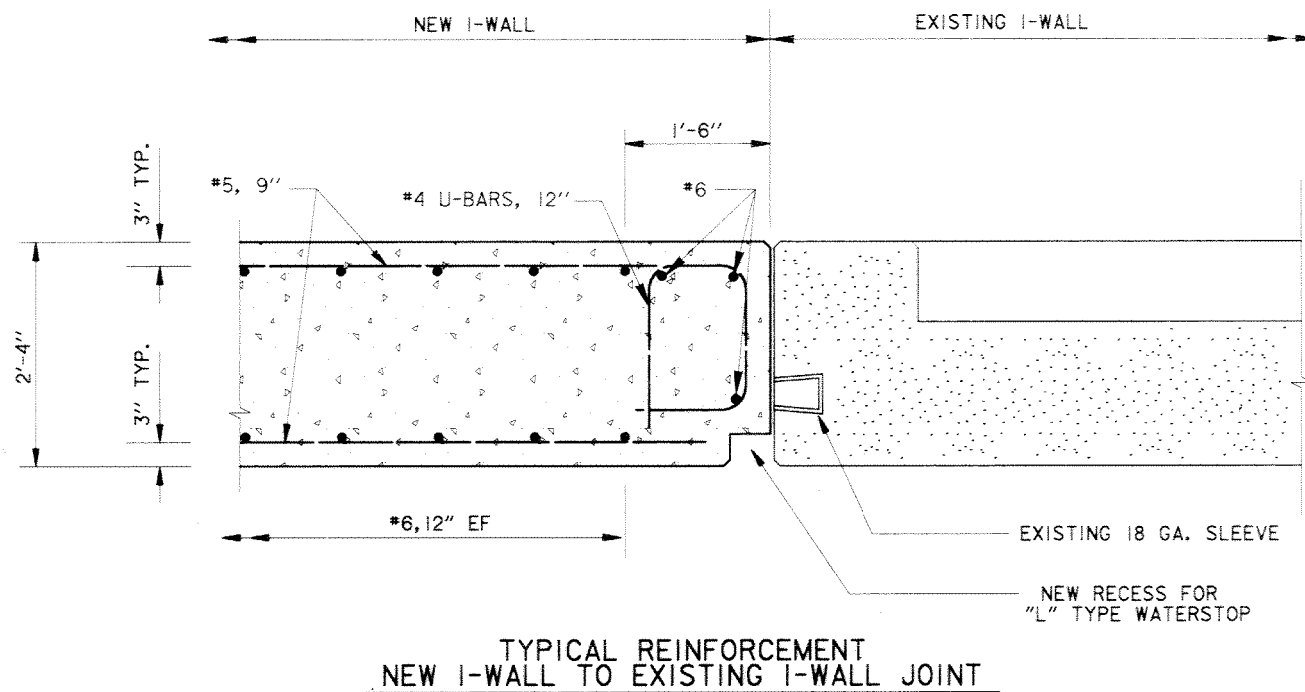
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE			
MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE			
I-WALL REINFORCEMENT MITER GATE STORAGE MONOLITHS VICINITY TOPAZ STREET GATE			
DESIGNED BY: B. GRUBB	DATE: MARCH 97	PLOT SCALE: 12	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CADD FILE: 44577P30.DGN	FILE NO. H-4-44577	
CHECKED BY: J. ROMERO	SUBMITTED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 30 OF 49



FLOOD SIDE ELEVATION  
NEW I-WALL TO EXISTING I-WALL



FLOOD SIDE ELEVATION  
REINFORCING DETAIL  
NEW I-WALL TO EXISTING I-WALL



TYPICAL REINFORCEMENT  
NEW I-WALL TO EXISTING I-WALL JOINT

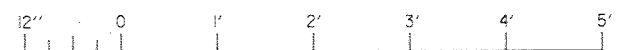
SECTION A

ELEVATION SCHEDULE		
LOCATION (SEE PROFILES FOR STATIONS)	ELEVATIONS	
	A	B
LAKE MARINA AVE.	14.0	EL. VARIES, SEE PROFILE, DWG. 13
BAYOU ST JOHN (WEST)	18.0	EL. VARIES, SEE PROFILE, DWG. 17
BAYOU ST JOHN (EAST)	18.5	EL. VARIES, SEE PROFILE, DWG. 18

NOTE:  
EAST SIDE SHOWN, WEST SIDE OPPOSITE HAND.

- NOTES:
- FOR GENERAL NOTES, SEE DWG. 2.
  - FOR PLAN, SEE DWG. 6.
  - FOR PROFILE AND TYPICAL SECTIONS, SEE DWGS. 17 AND 18.

SCALE: 1" = 1'-0"



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

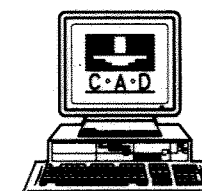
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS  
CORPS OF ENGINEERS  
NEW ORLEANS, LOUISIANA

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

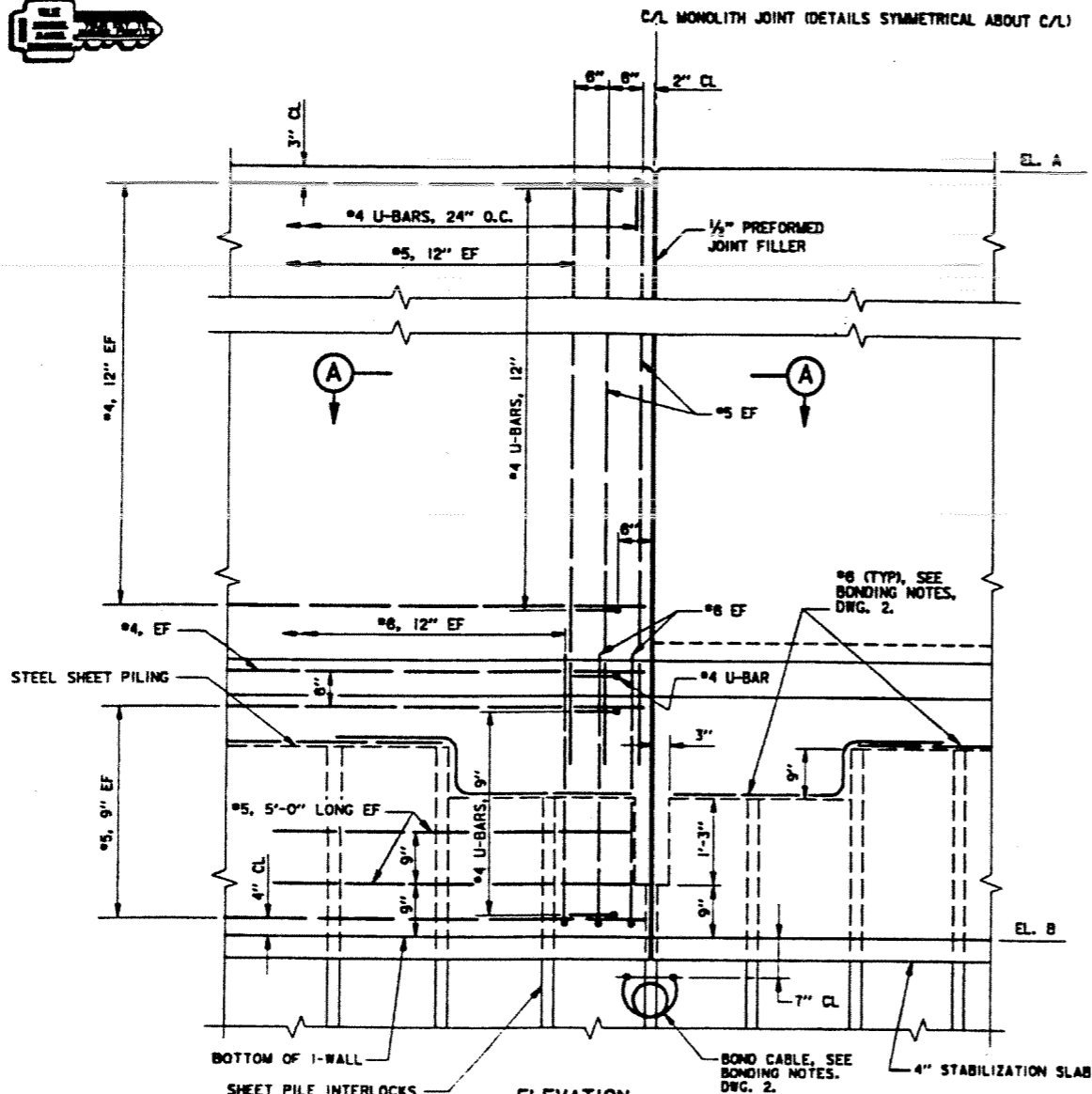
I-WALL JOINTS  
VICINITY LAKE MARINA AVE. AND  
BAYOU ST. JOHN (EAST & WEST)

DESIGNED BY: B. GRUBB	DATE: MARCH 97	PLOT SCALE: 12	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CADD FILE: 44577P3.DGN	FILE NO. H-4-44577	
CHECKED BY: J. ROMERO	SUBMITTED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 31 OF 49

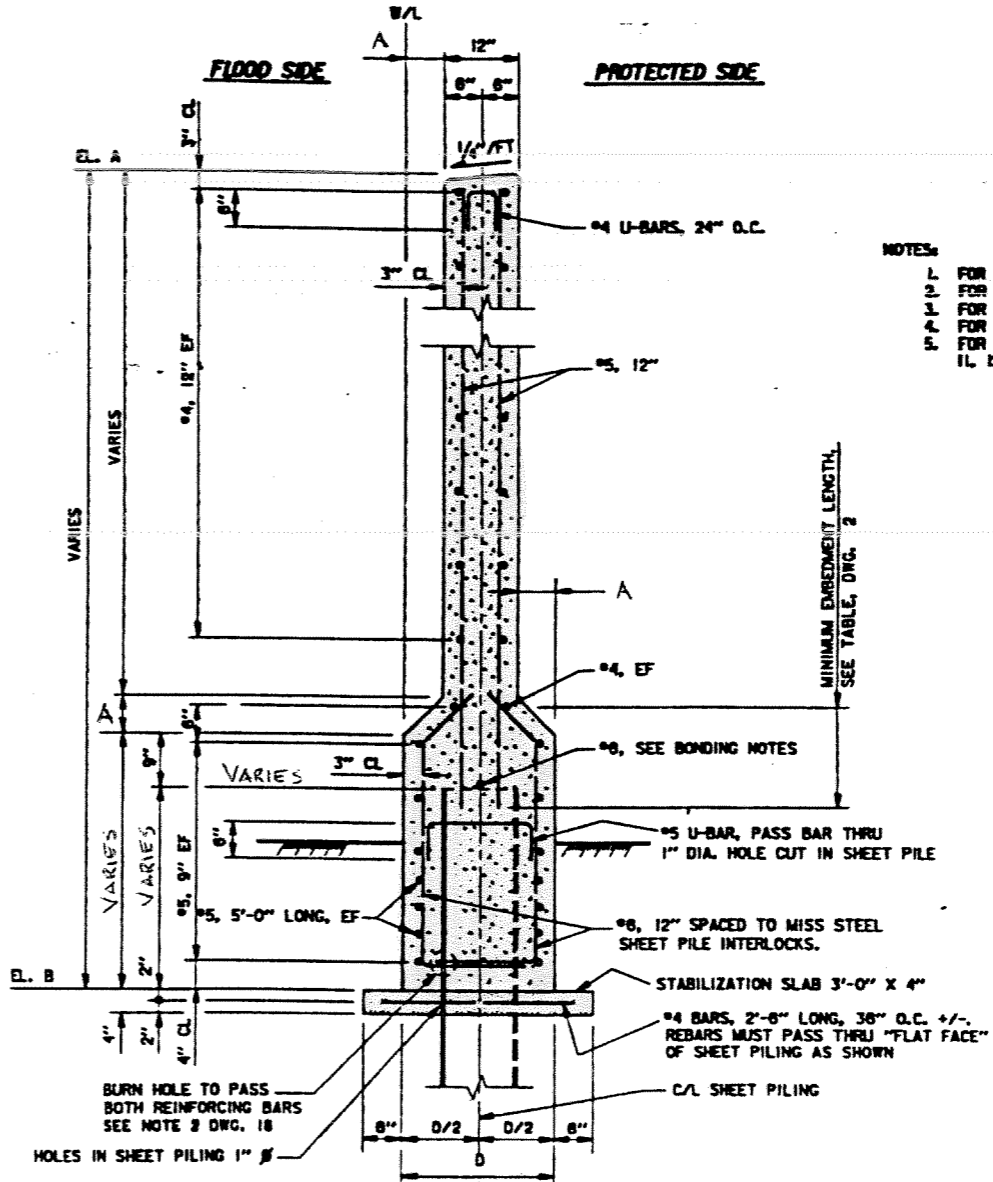
Safety is a Part  
of Your Contract



Safety is a Part of Your Contract

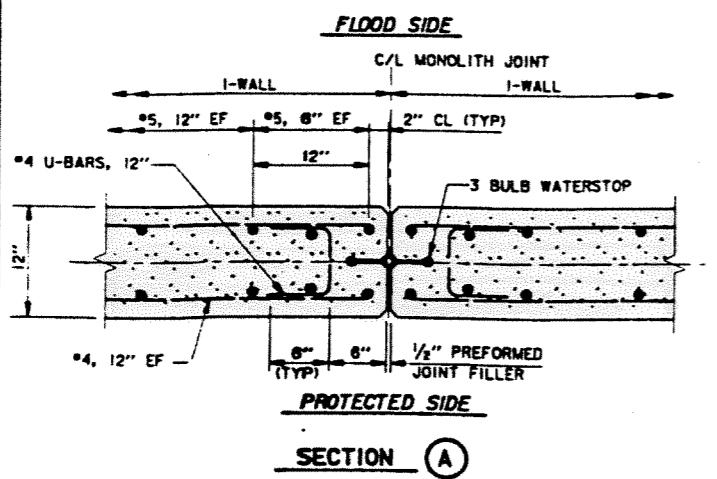


**DETAIL OF I-WALL MONOLITH JOINTS**  
SCALE: 1" = 1'-0"

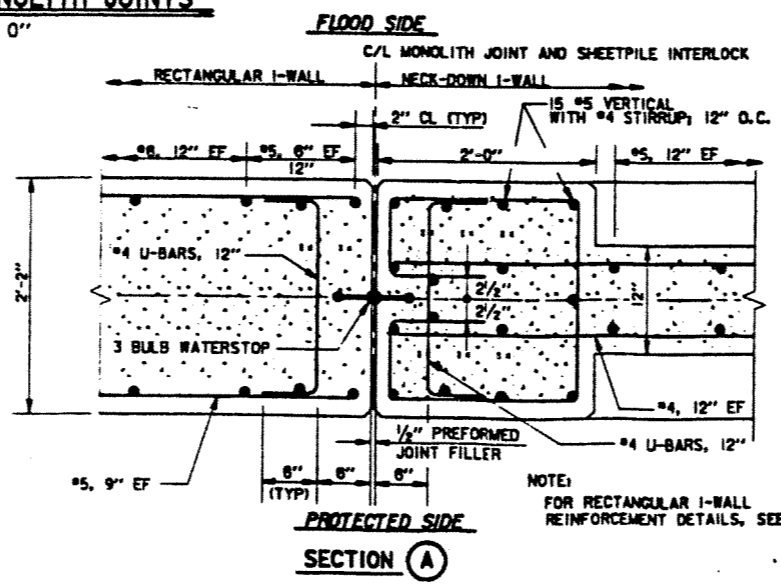


**TYPICAL REINFORCEMENT**  
SCALE: 1" = 1'-0"

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR TYPICAL SECTIONS, SEE DWGS. 19, 23, AND 24.
  3. FOR TYPICAL WALL JOINTS, SEE DWG. 34.
  4. FOR MISCELLANEOUS DETAILS, SEE DWGS. 39 AND 48.
  5. FOR PLAN AND PROFILES, SEE DWGS. 7, 9, 10, 11, 12, 19, 21, 22, AND 24.



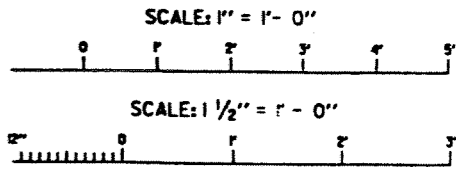
**TYPICAL REINFORCEMENT AT MONOLITH JOINTS**  
SCALE: 1 1/2" = 1'-0"



**TYPICAL REINFORCEMENT AT TRANSITION Δ MONOLITH JOINTS (COLLINS PIPELINE)**  
SCALE: 1 1/2" = 1'-0"

**ELEVATION SCHEDULE Δ**

LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE "0"	ELEVATIONS	
		A	B & C
FRANKLIN AVENUE	2'-0"	20.5	EL. VARIES, SEE PROFILE, DWG. 19
LINCOLN BEACH	2'-0"	14.0	EL. VARIES, SEE PROFILE, DWGS. 21 & 22
COLLINS PIPELINE	2'-2"	22.0	EL. VARIES, SEE PROFILE, DWG. 24



REVISION ELEVATION SCHEDULE AND ADDED TRANSITION JOINT DETAIL  
DATE: 7-17-98  
APPROVED: R.M.G.

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

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

**I-WALL REINFORCEMENT FOR NECK-DOWN I-WALLS**

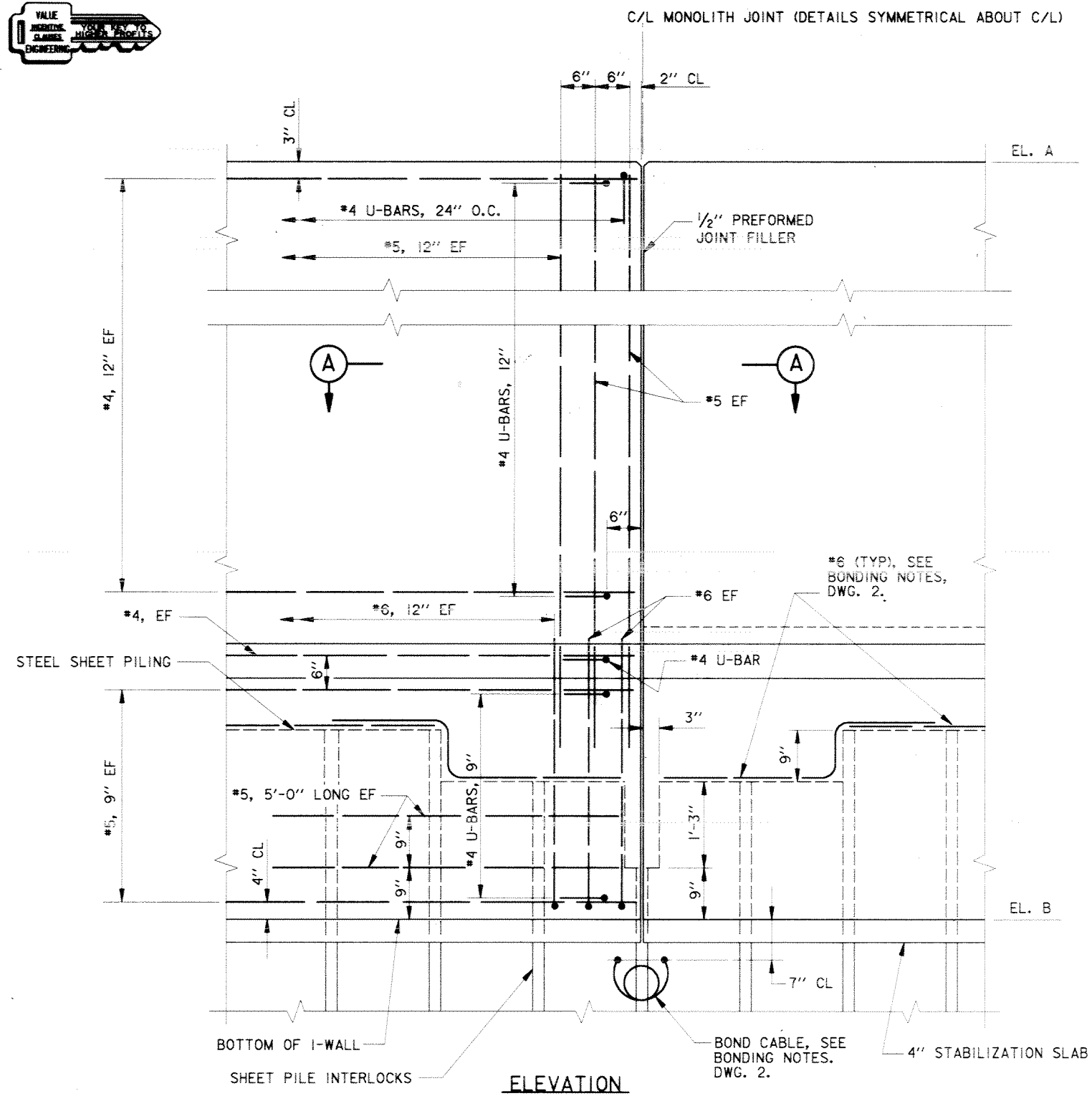
DESIGNED BY: FLORIAN	DATE: MARCH 97	PLAT SCALE: 12	PLAT DATE: DEC 97
CHECKED BY: FLORIAN	CHG. FILED: [blank]	FILE NO. H-8-44577	
SELECTATION NO. DACW29-97-B-0078		DWG. 32 OF 49	





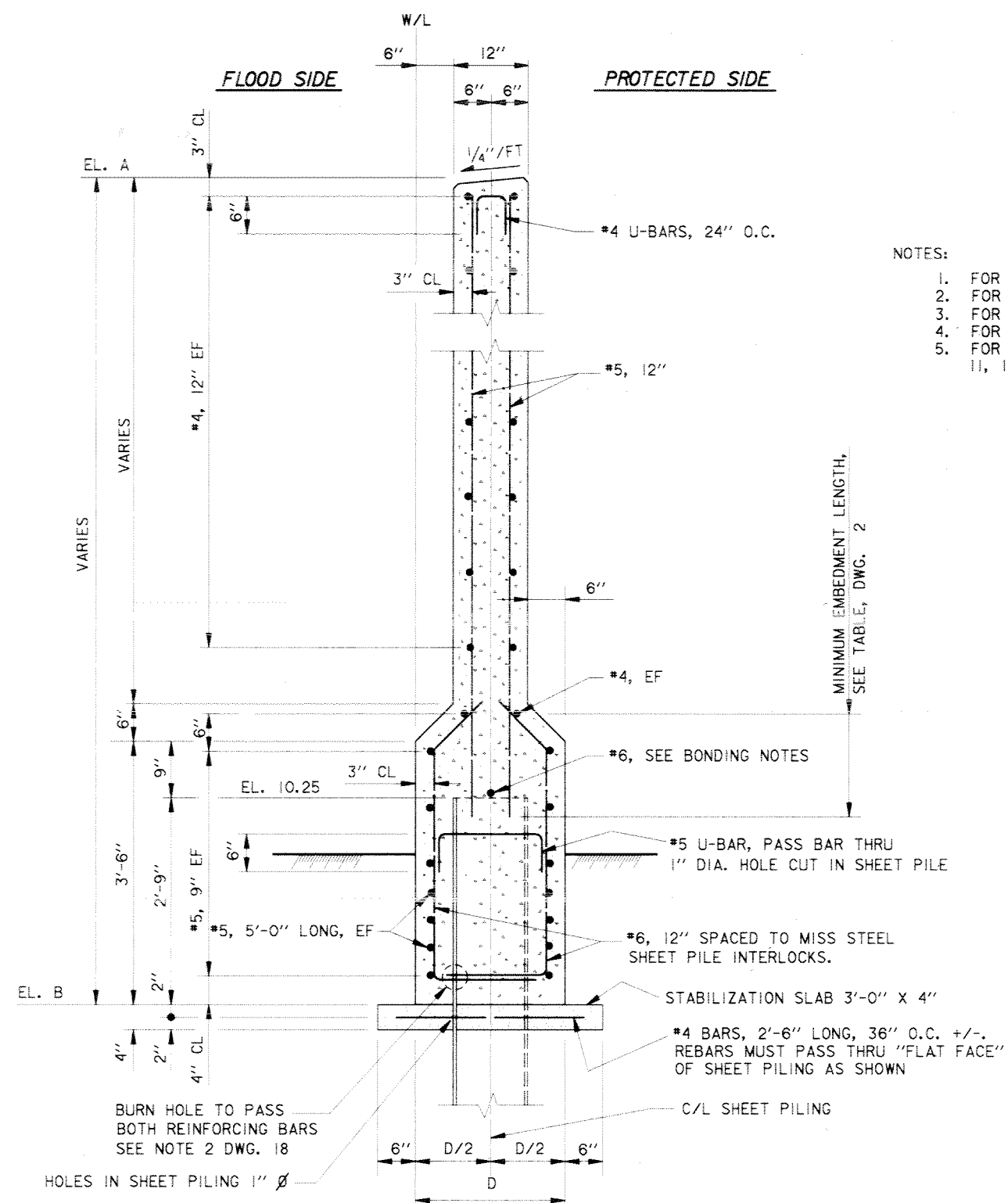


**Safety is a Part of Your Contract**



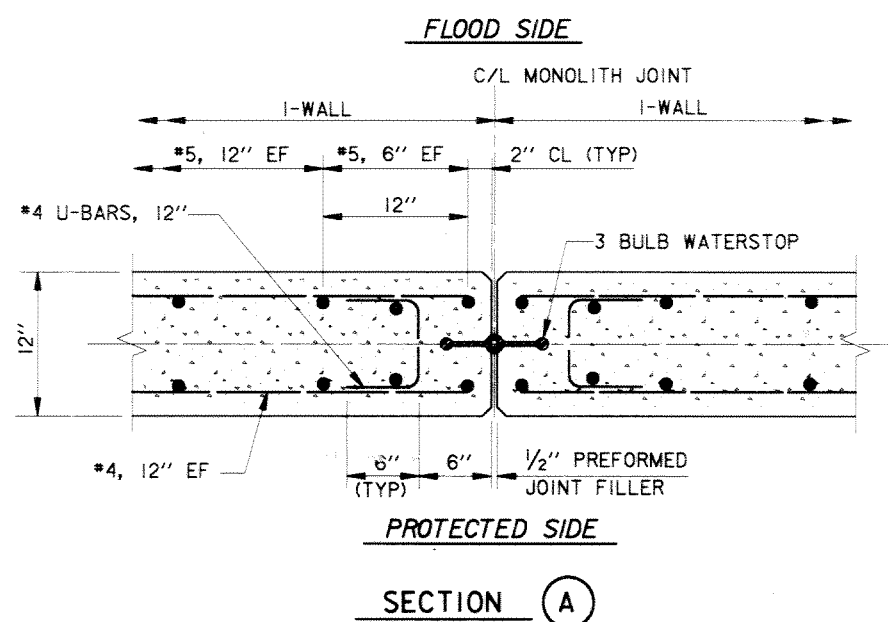
**DETAIL OF I-WALL MONOLITH JOINTS**

SCALE: 1" = 1'-0"



**TYPICAL REINFORCEMENT**

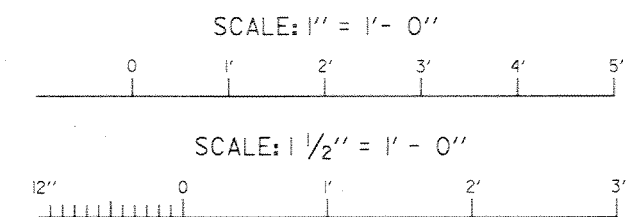
SCALE: 1" = 1'-0"



**TYPICAL REINFORCEMENT AT MONOLITH JOINTS**

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

ELEVATION SCHEDULE				
LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE "D"	ELEVATIONS		
		A	B & C	
FRANKLIN AVENUE	2'-0"	20.5	EL. VARIES, SEE PROFILE, DWG. 19	
LINCOLN BEACH	2'-0"	14.0	EL. VARIES, SEE PROFILE, DWGS. 21 & 22	
COLLINS PIPELINE	1'-9"	22.0	EL. VARIES, SEE PROFILE, DWG. 24	



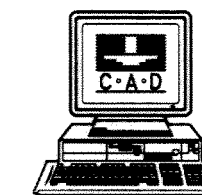
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

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

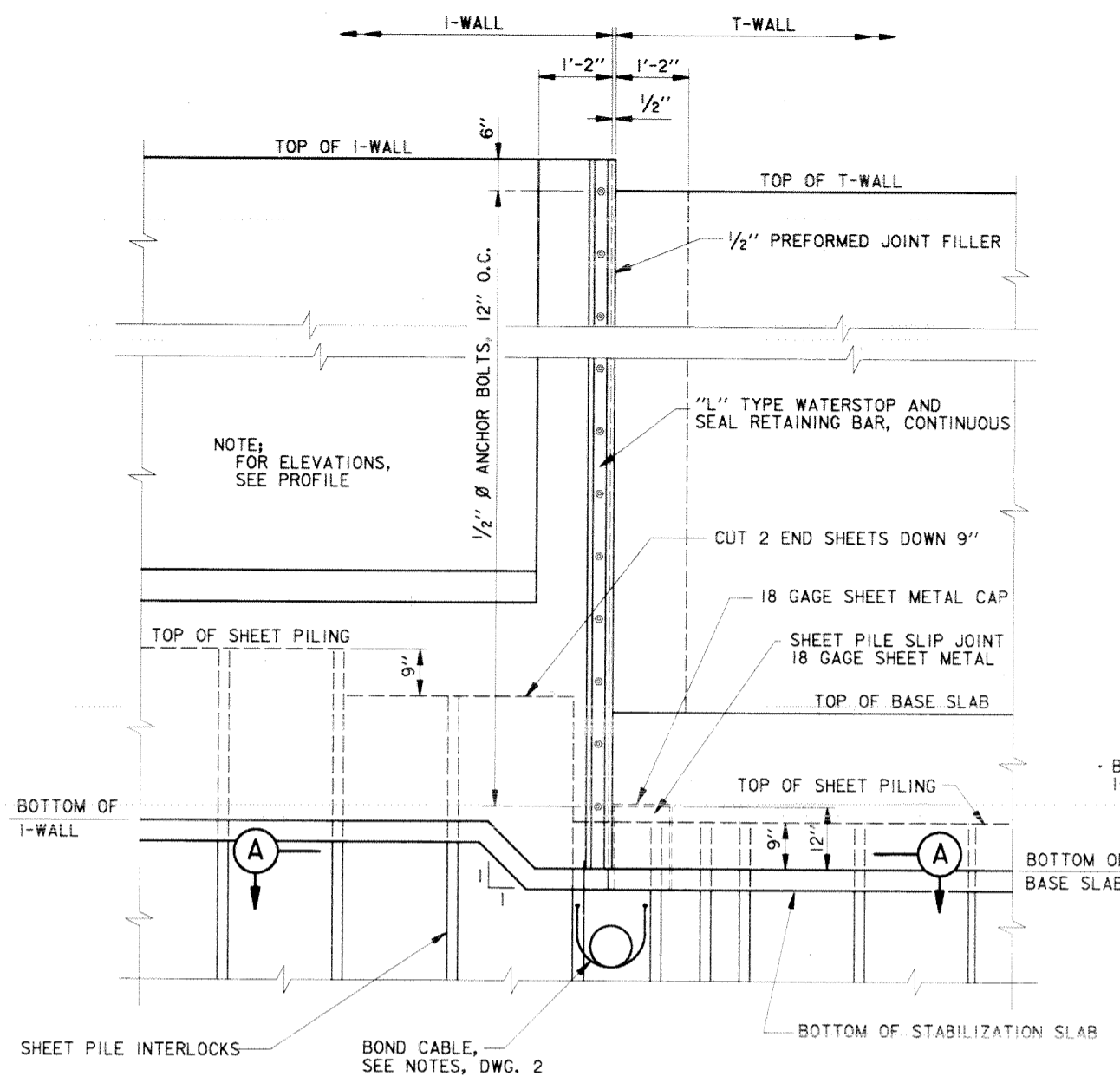
LAKE PONCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
**MISCELLANEOUS FLOODWALL CAPPING**  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

**I-WALL REINFORCEMENT FOR NECK-DOWN I-WALLS**

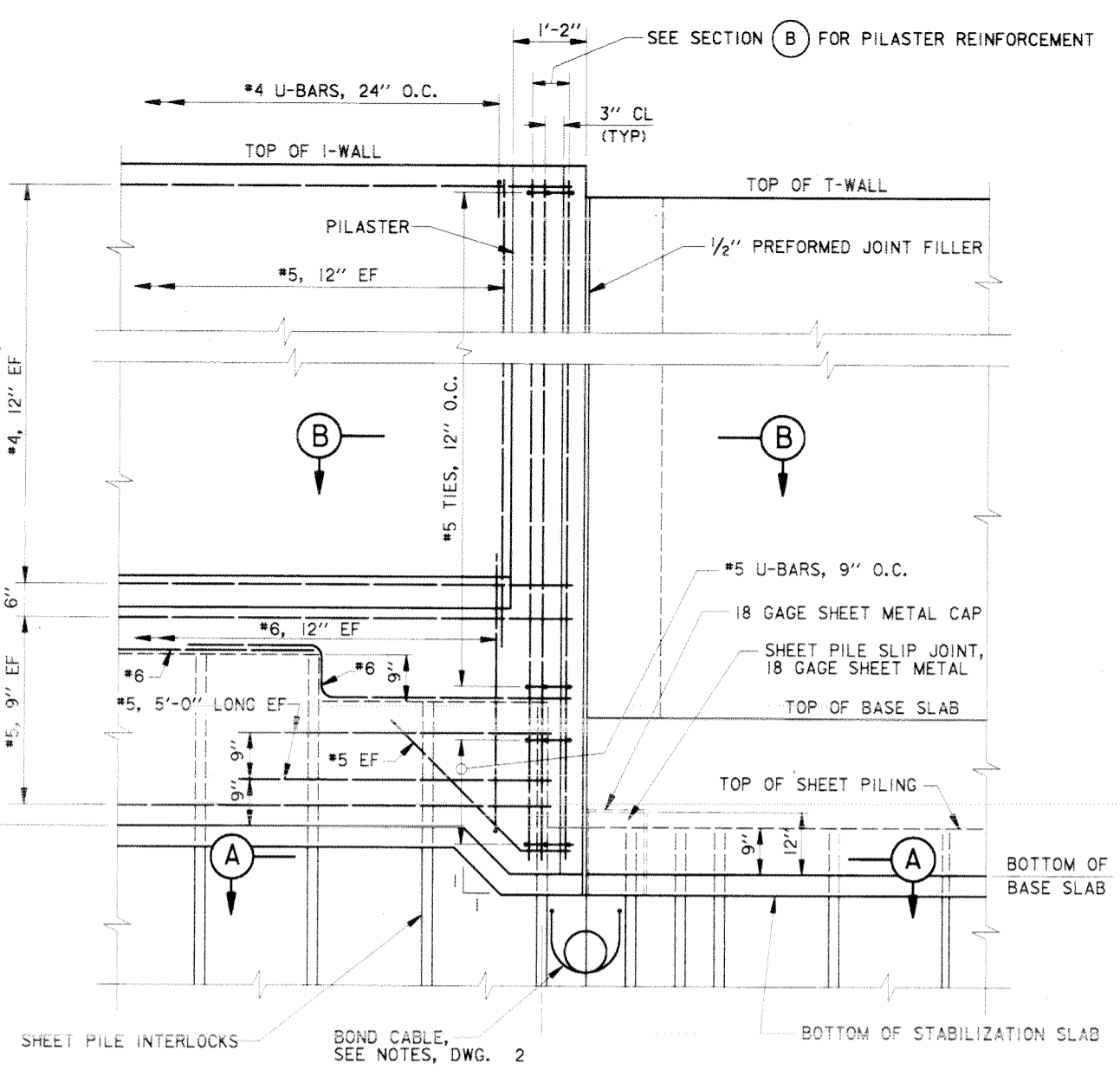
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 12	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	FILE NO. H-8-44577	DWG. 32 OF 49
SUBMITTED BY: R.GRUBB DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075		



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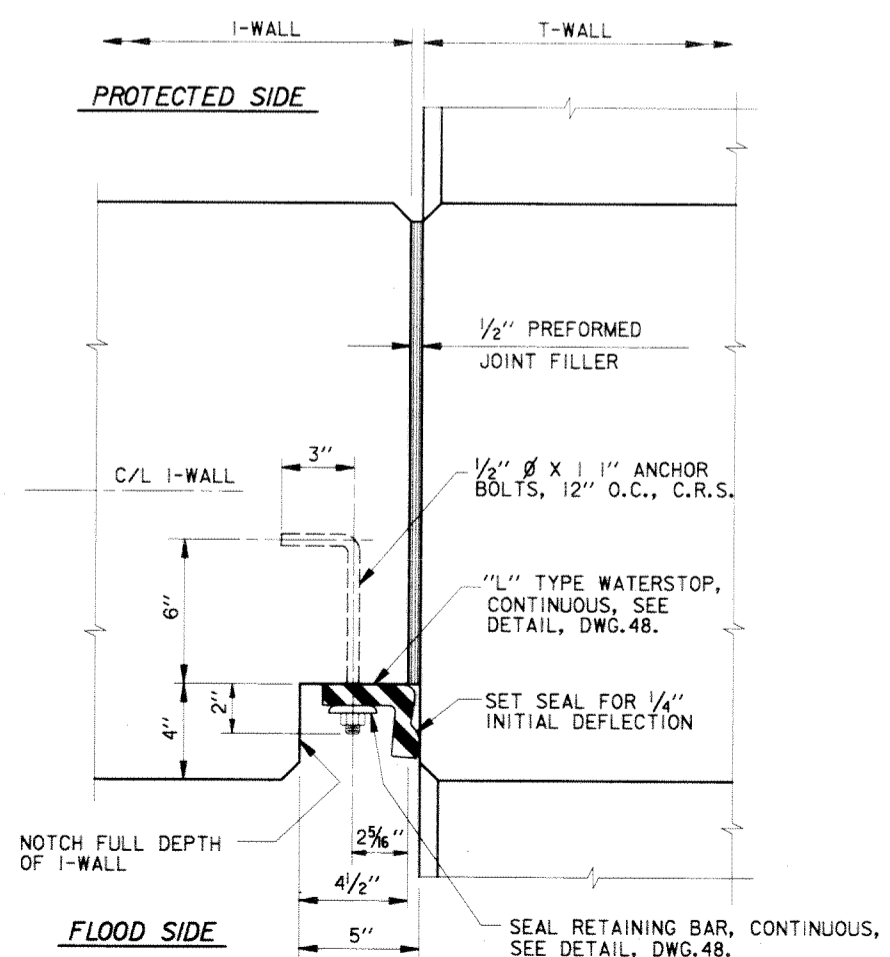


**FLOOD SIDE ELEVATION  
I-WALL TO T-WALL**  
SCALE: 3/4" = 1' - 0"

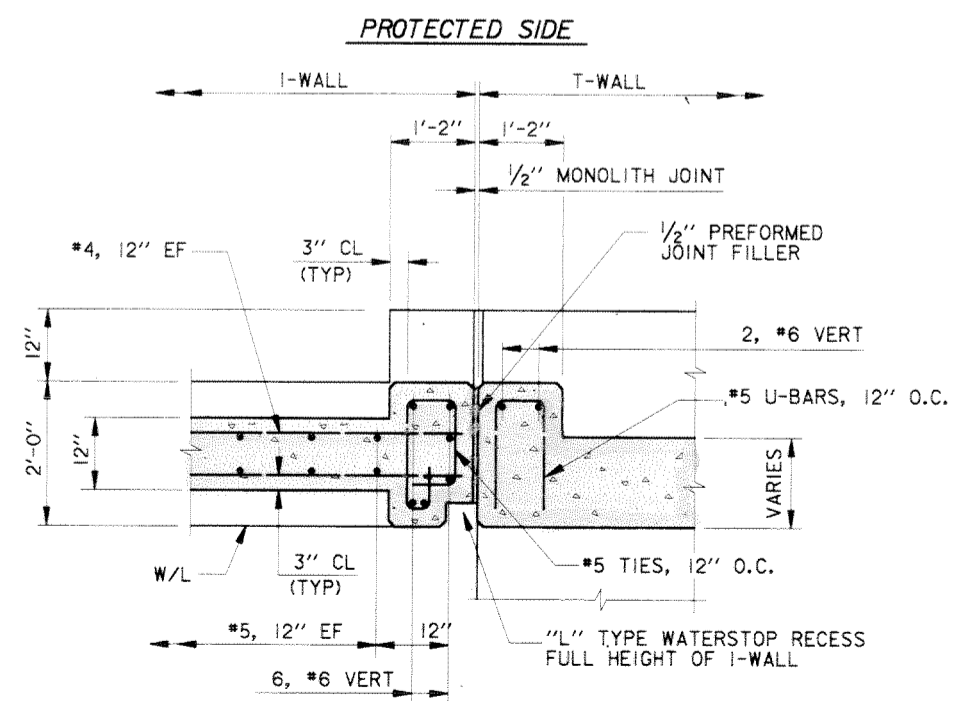


**FLOOD SIDE ELEVATION  
REINFORCEMENT  
I-WALL TO T-WALL**  
SCALE: 3/4" = 1' - 0"

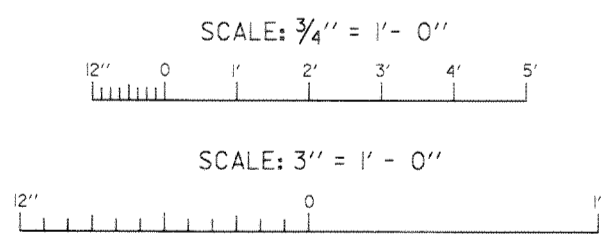
- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR TYPICAL SECTIONS, SEE DWGS. 19 AND 23.
  3. FOR MISCELLANEOUS DETAILS, SEE DWGS. 39 AND 48.
  4. FOR PLAN AND PROFILES, SEE DWGS. 7, 9, 10, 11, 19, 21, AND 22.



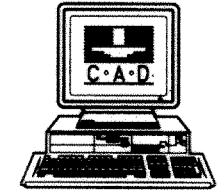
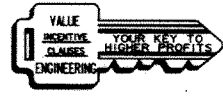
**PLAN  
I-WALL TO T-WALL**  
SCALE: 3" = 1' - 0"

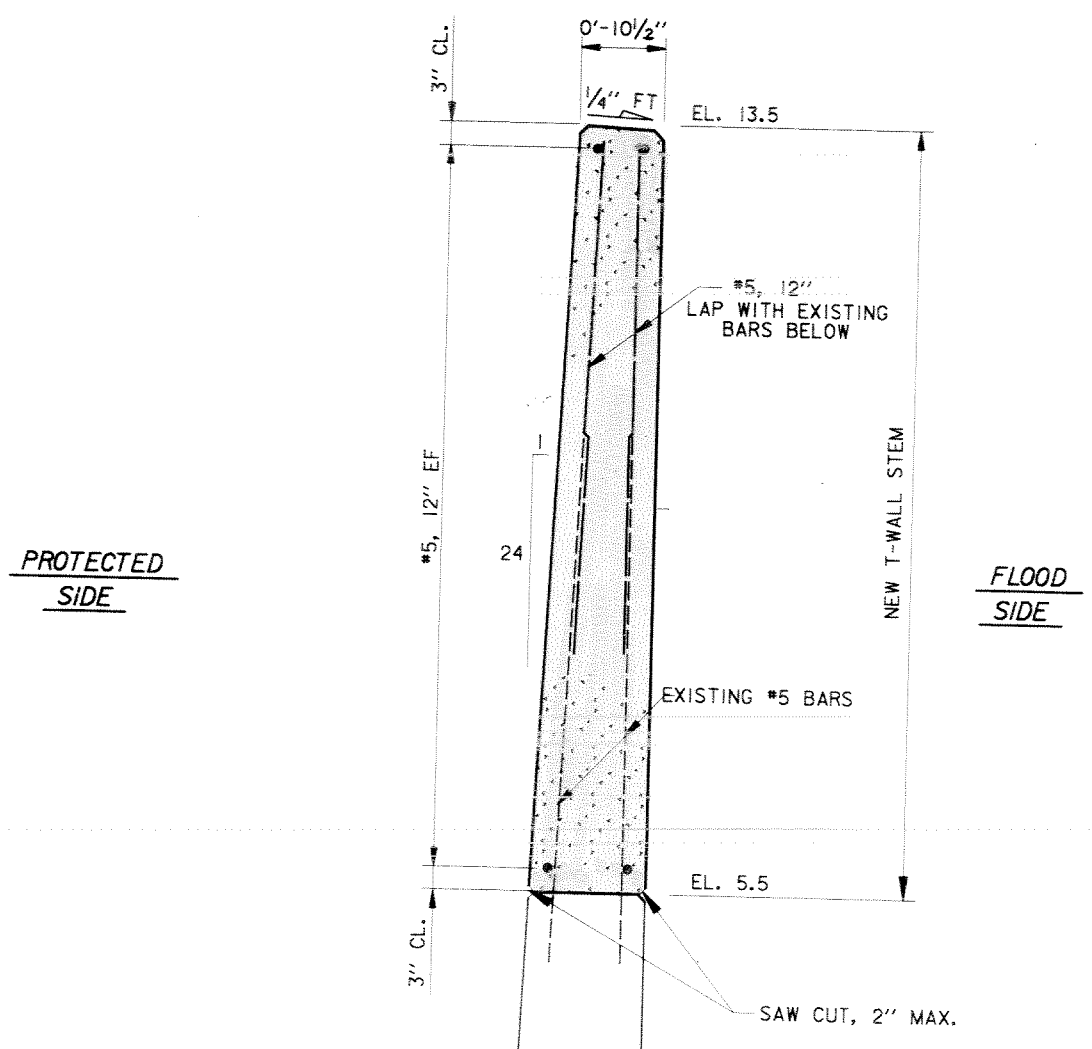


**SECTION B**  
SCALE: 3/4" = 1' - 0"



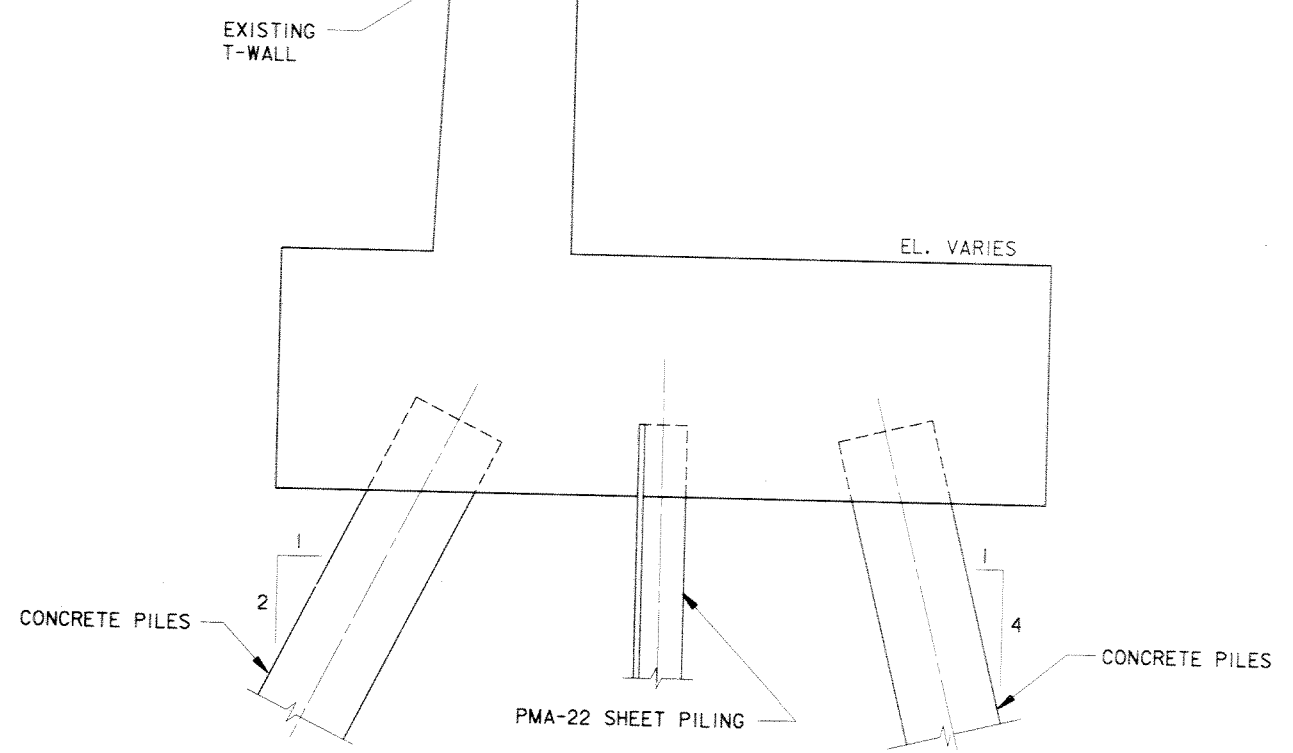
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>WALL JOINTS</b> <b>TYPICAL DETAILS - VICINITY OF</b> <b>FRANKLIN AVENUE &amp; LINCOLN BEACH</b>			
DESIGNED BY: R. GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L. MAGEE	CADD FILE: 44577P33.DGN	FILE NO.	H-8-44577
CHECKED BY: R. GRUBB	SUBMITTED BY: R. GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 33 OF 49



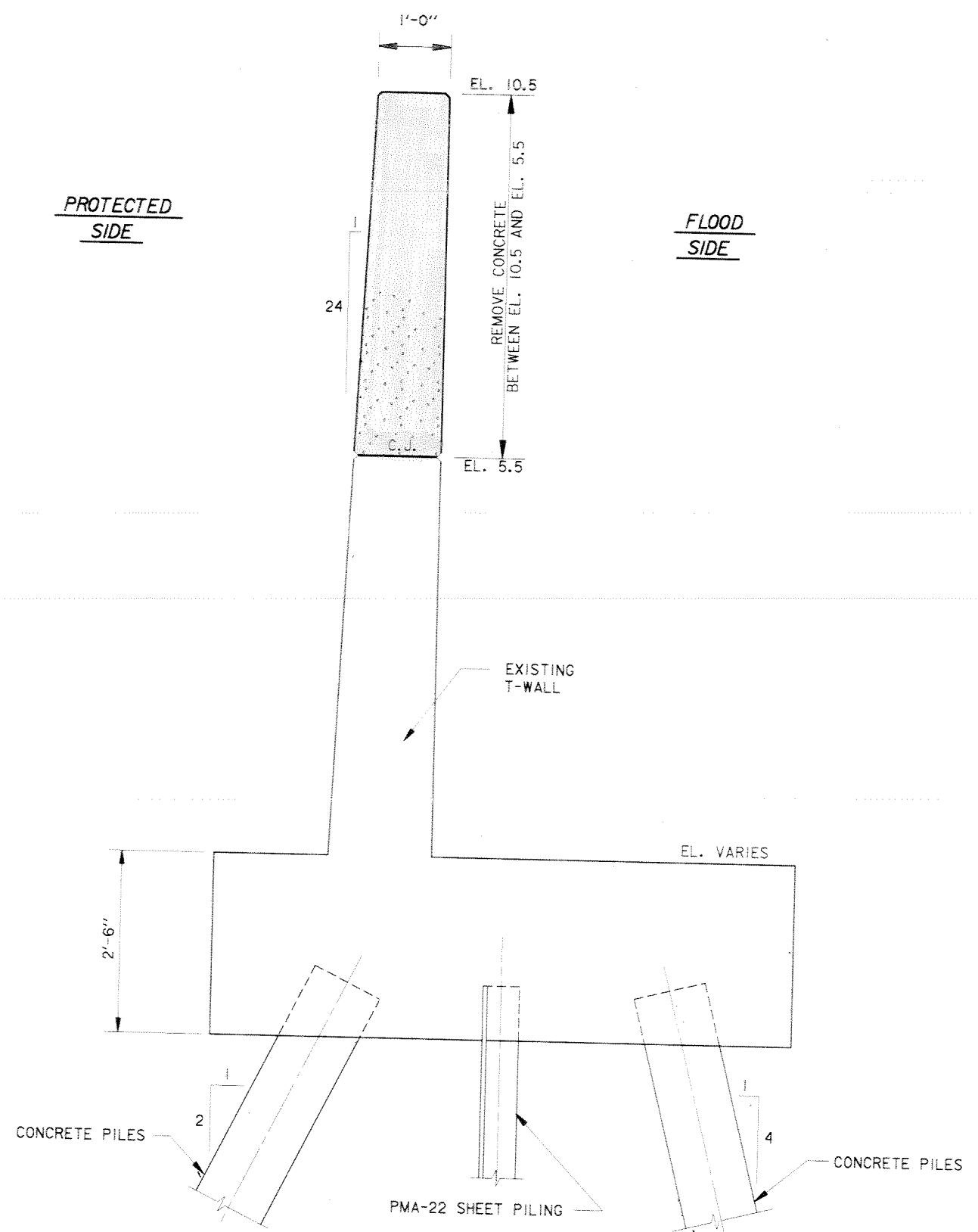


PROTECTED SIDE

FLOOD SIDE



STA. 106+92.91 W/L TO STA. 107+49.41 W/L  
 STA. 108+25.41 W/L TO STA. 109+18.91 W/L  
TYPICAL T-WALL

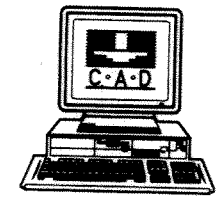
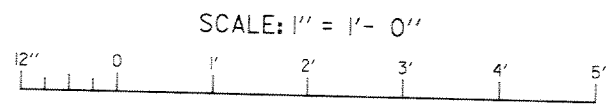



PROTECTED SIDE

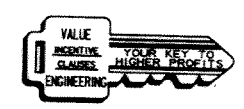
FLOOD SIDE

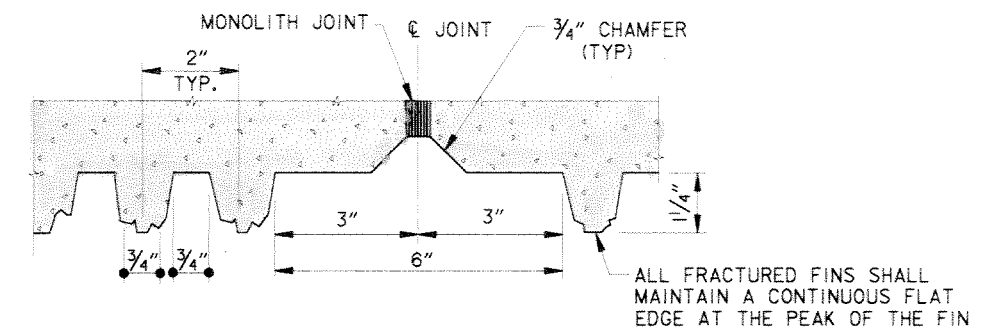
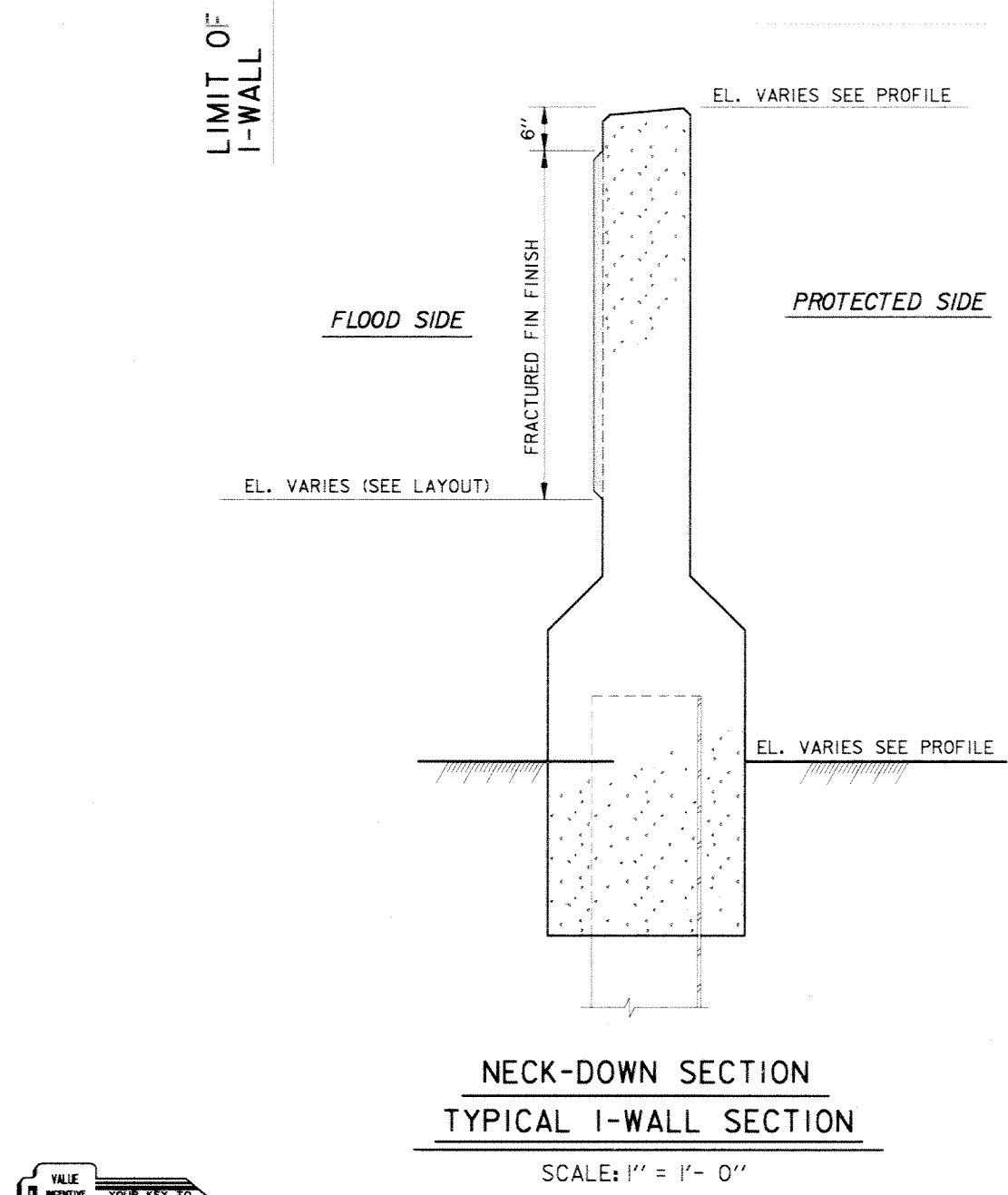
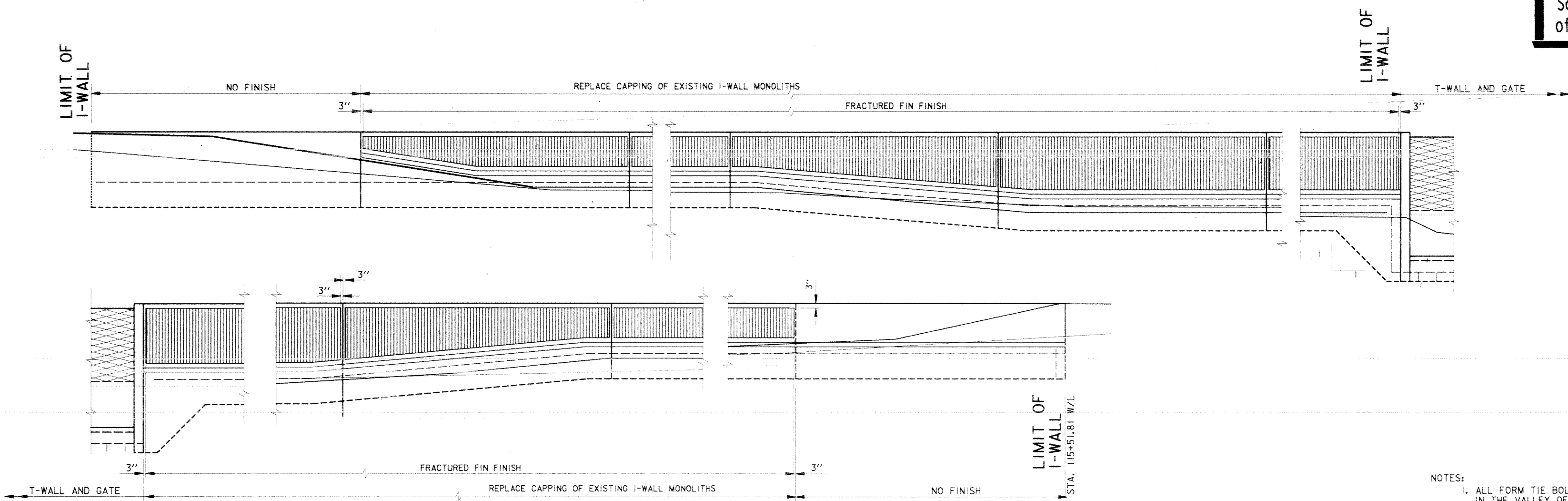
EXISTING SECTION  
 STA. 106+92.91 W/L TO STA. 107+49.41 W/L  
 STA. 108+25.41 W/L TO STA. 109+18.91 W/L  
TYPICAL T-WALL

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWGS. 9 THRU 11.
  3. FOR PROFILE, SEE DWGS. 21.

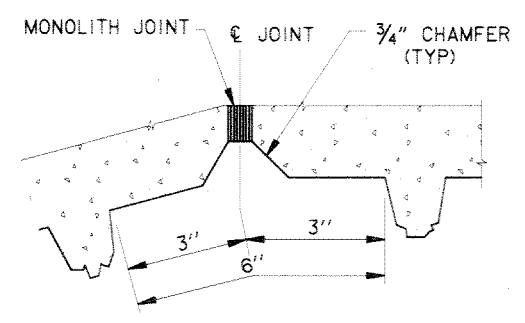


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE T-WALL EXTENSION VICINITY LINCOLN BEACH STA. 106+92.91 W/L TO STA. 107+49.41 W/L STA. 108+25.41 W/L TO STA. 109+18.91 W/L			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 12	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P34.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 34 OF 49



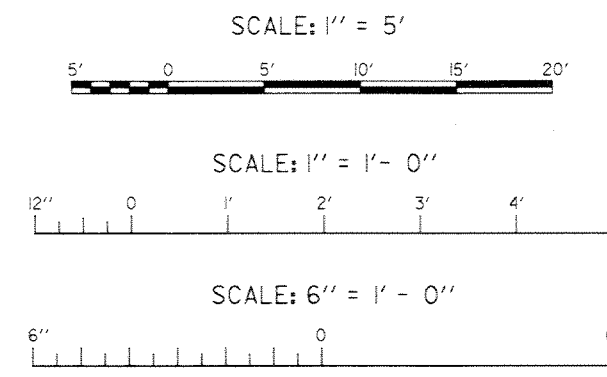


FRACTURED FIN FINISH AT TYPICAL MONOLITH JOINT  
SCALE: 6" = 1' - 0"

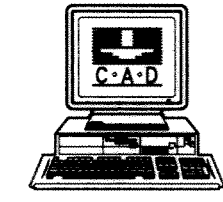
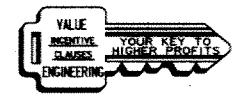


FRACTURED FIN FINISH AT P.I.  
SCALE: 6" = 1' - 0"

- NOTES:
1. ALL FORM TIE BOLTS SHALL OCCUR IN THE VALLEY OF THE CONCRETE WALL RIB TEXTURE. (I.E. BETWEEN ADJACENT RIBS)
  2. CONTRACTOR SHALL MAKE ALL EFFORTS TO MINIMIZE THE OCCURRENCE OF BUTT JOINTS.
  3. CONTRACTOR SHALL SUBMIT FOR PRIOR APPROVAL, DRAWINGS SHOWING THE LOCATION OF ALL BUTT JOINTS IN ALL FORMS USED FOR CONSTRUCTION.
  4. PAINT ALL EXPOSED SURFACES WITH THOROSEAL CLEAR CEMENTITIOUS PAINT.



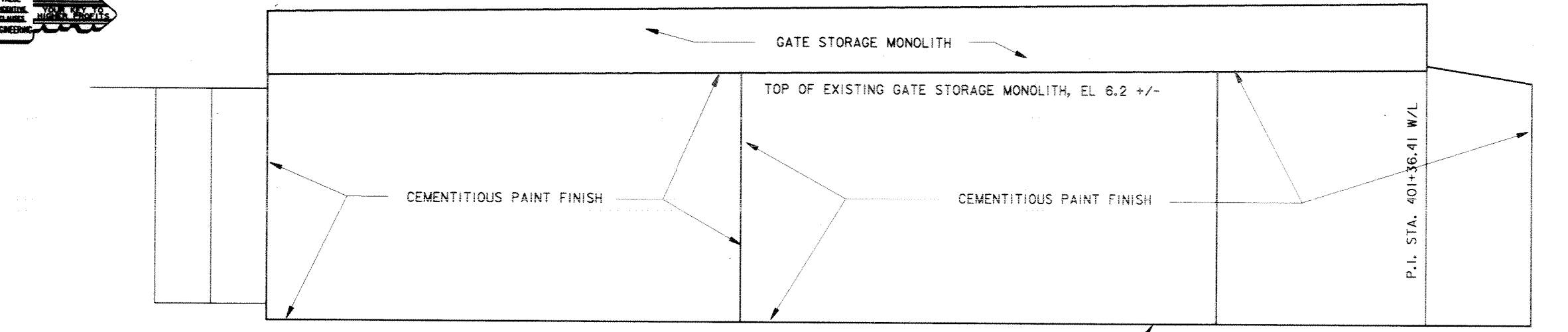
FOR GENERAL NOTES, SEE DWG. 2



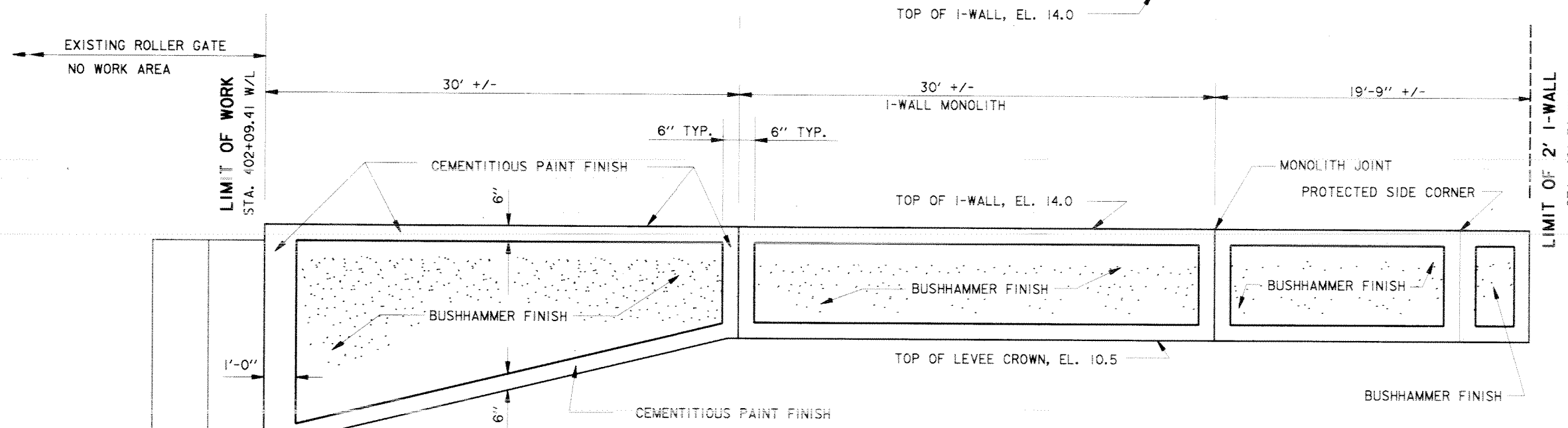
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>TYPICAL SECTION</b> <b>ARCHITECTURAL TREATMENT</b> VICINITY OF LINCOLN BEACH			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 60	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 4457735.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075	DWG. 35 OF 49	



**FLOOD SIDE ELEVATION**



REFERENCE DRAWINGS  
 FOR GENERAL NOTES, SEE DWG. 2  
 FOR PLAN AND PROFILE, SEE DWGS. 3 AND 13.  
 FOR TYPICAL WALL SECTIONS, SEE DWG. 14.

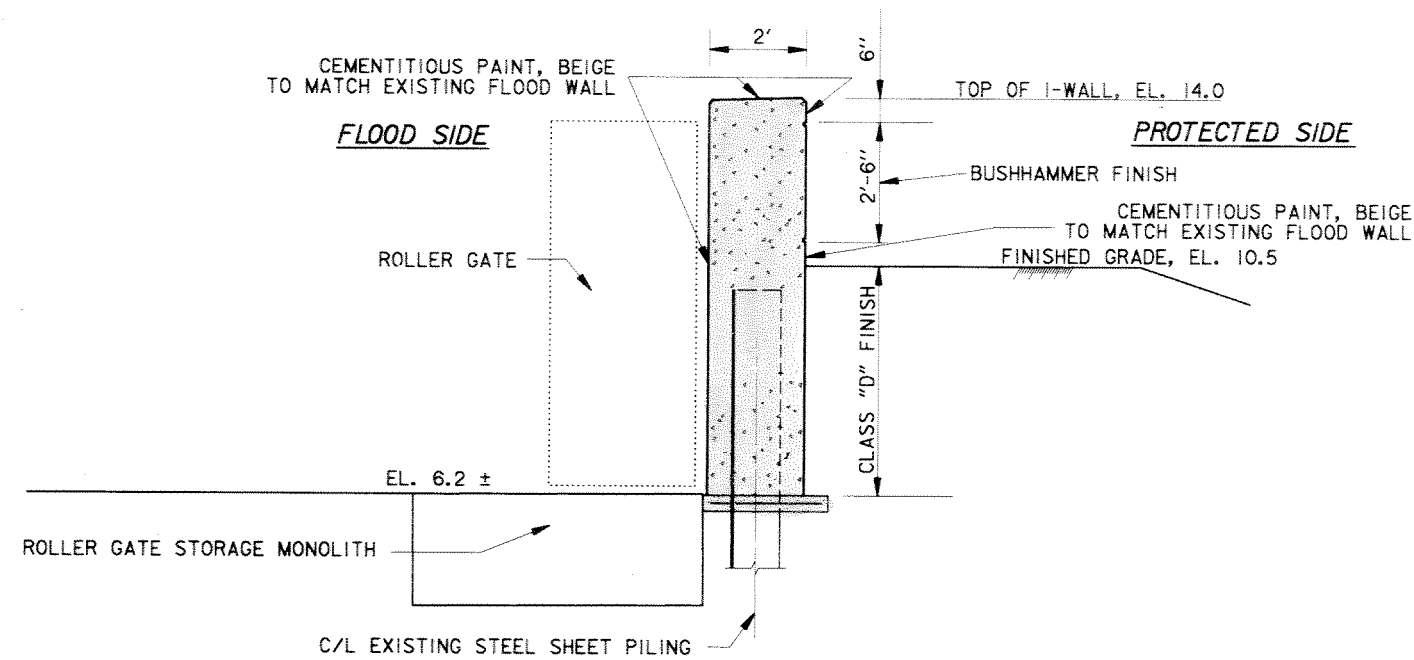
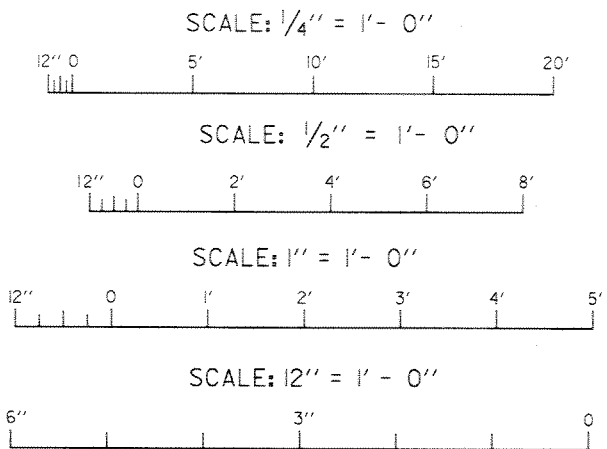


**PROTECTED SIDE ELEVATION**

**I-WALL FINISH DETAIL**

STA. 402+09.41 W/L TO STA. 401+30 ± W/L

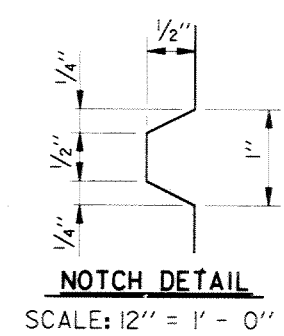
HORI. SCALE: 1/4" = 1'- 0"  
 VERT. SCALE: 1/2" = 1'- 0"



**TYPICAL SECTION - ARCHITECTURAL TREATMENT**

STA. 402+09.41 W/L TO STA. 401+30 ± W/L

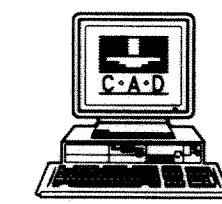
SCALE: 1" = 1'- 0"



**NOTCH DETAIL**

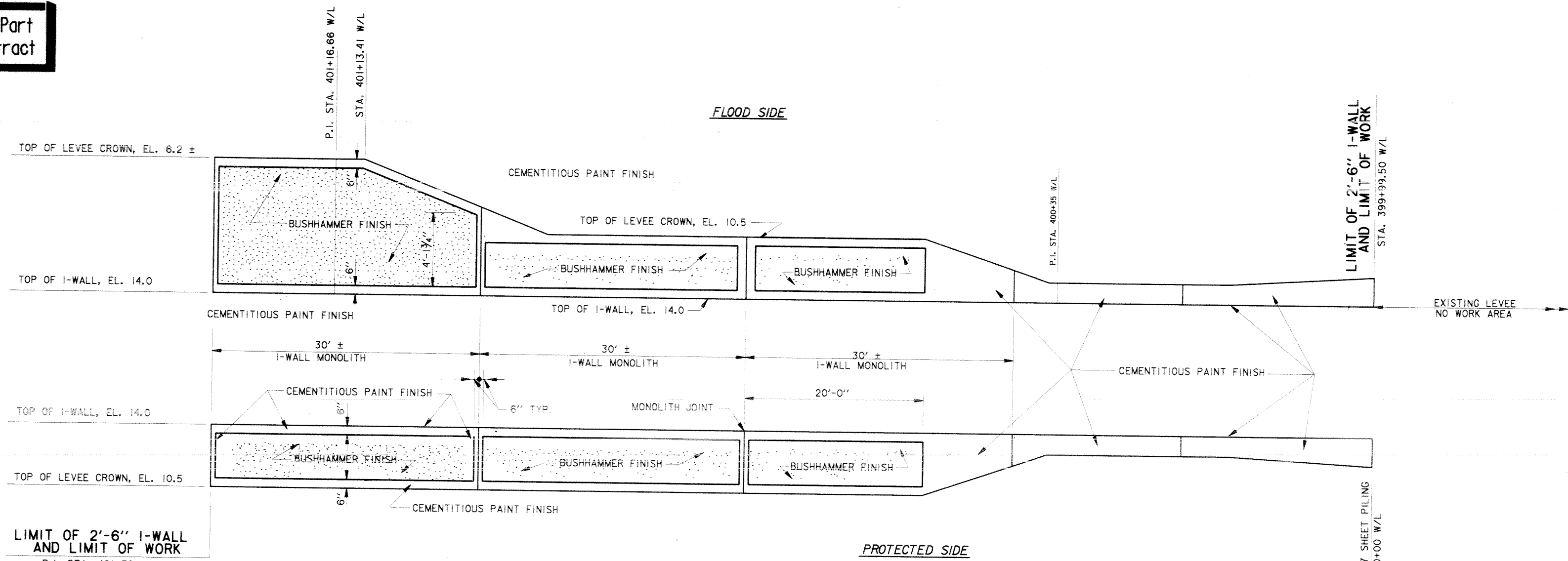
SCALE: 12" = 1'- 0"

**Safety is a Part of Your Contract**



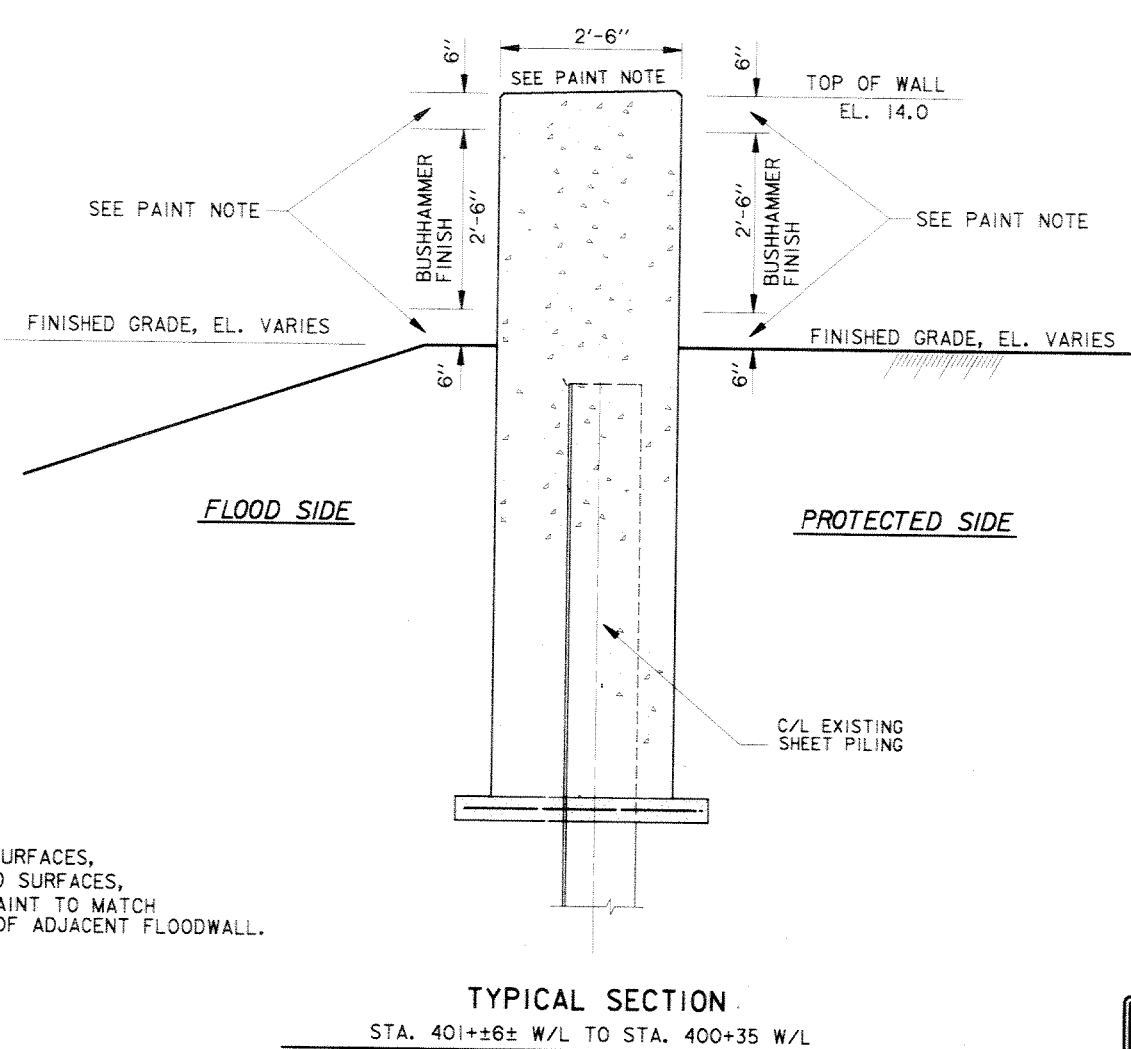
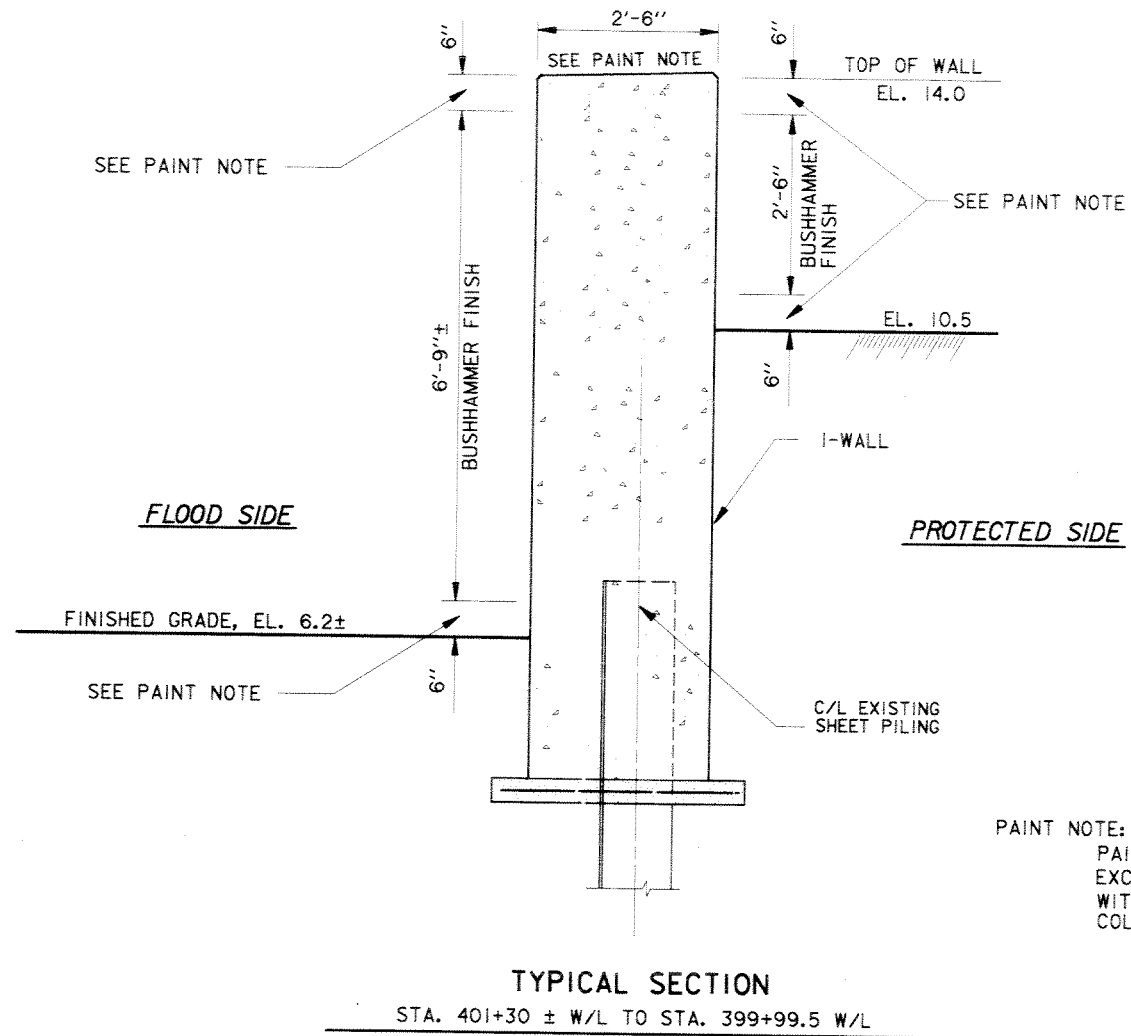
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>TYPICAL SECTION</b> <b>ARCHITECTURAL TREATMENT</b> <b>STA. 402+09.41 W/L TO 401+30 ± W/L</b> <b>VICINITY OF LAKE MARINA AVE.</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 24	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P36.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 36	OF 49
SUBMITTED BY: R.GRUBB	DESIGN ENGINEER		

**Safety is a Part of Your Contract**



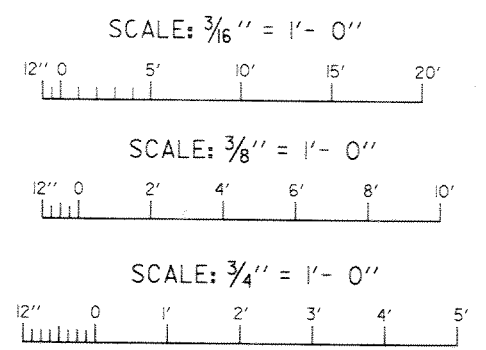
**I-WALL FINISH DETAIL**  
 STA. 401+30 ± W/L TO STA. 399+99.5 W/L

SCALE: HOR. 3/16" = 1'  
 VERT. 3/8" = 1'

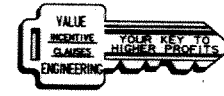


**PAINT NOTE:**  
 PAINT ALL EXPOSED SURFACES, EXCEPT BUSHHAMMERED SURFACES, WITH CEMENTITIOUS PAINT TO MATCH COLOR AND TEXTURE OF ADJACENT FLOODWALL.

**REFERENCE DRAWINGS**  
 FOR GENERAL NOTES, SEE DWG. 2  
 FOR PLAN AND PROFILE, SEE DWGS. 3 AND 13.  
 FOR TYPICAL WALL SECTIONS, SEE DWG. 21.

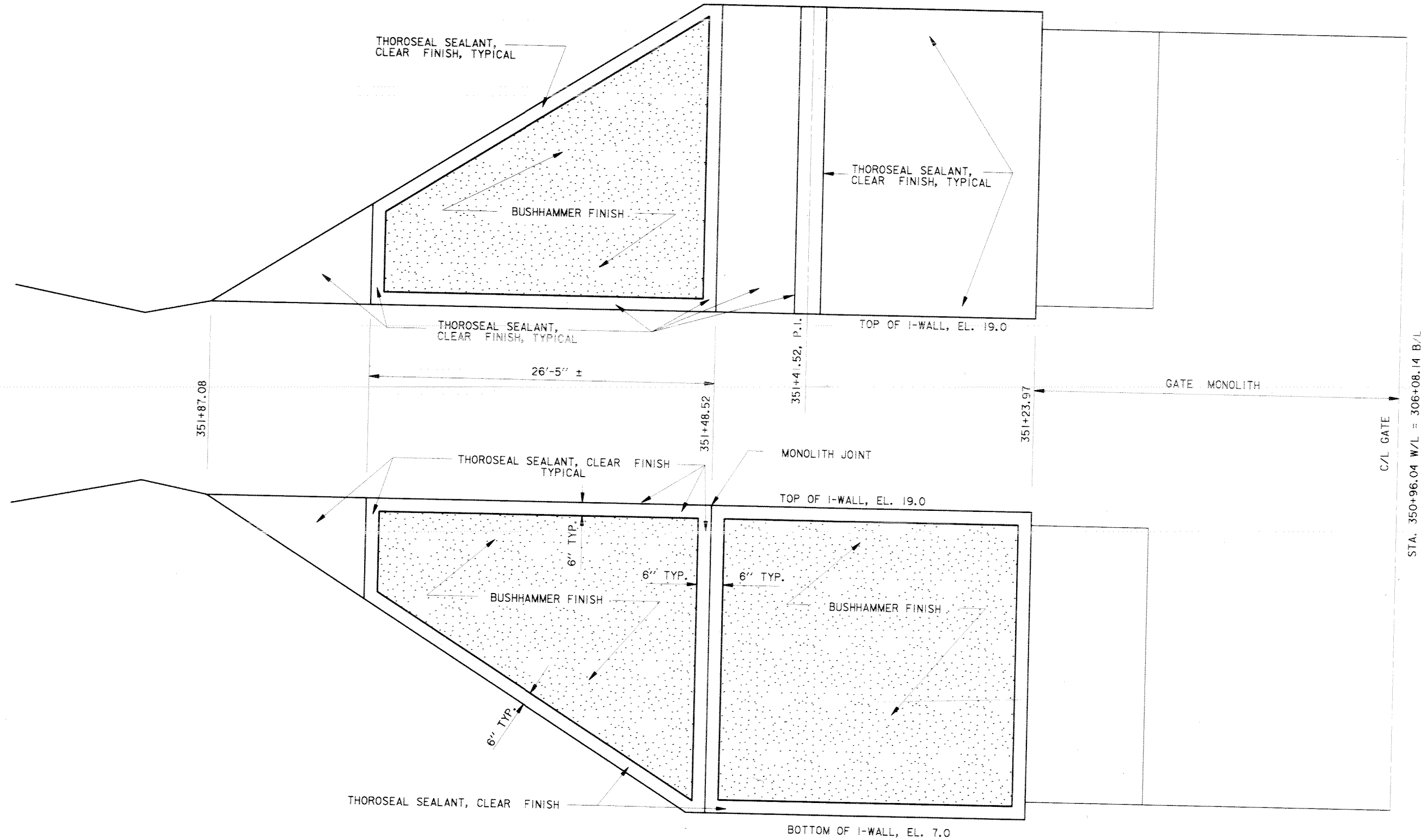


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>TYPICAL SECTION</b> <b>ARCHITECTURAL TREATMENT</b> STA. 401+30 ± W/L TO 399+99.50 W/L VICINITY OF LAKE MARINA AVE.			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 32	PLOT DATE: MARCH 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P37.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-X	DWG. 37	OF 49
SUBMITTED BY: R.GRUBB	DESIGN ENGINEER		



Safety is a Part of Your Contract

FLOOD SIDE ELEVATION



PROTECTED SIDE ELEVATION

TYPICAL SECTION - ARCHITECTURAL TREATMENT  
 STA. 351+87.08 W/L TO STA. 351+23.97 W/L

SCALE: HORIZ. 1" = 1'- 0"  
 VERT. 1/2" = 1'- 0"

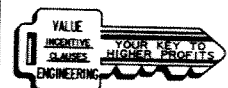
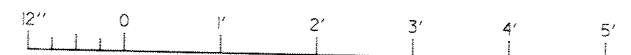
NOTES:

1. ALL FORM TIE BOLTS SHALL OCCUR IN THE VALLEY OF THE CONCRETE WALL RIB TEXTURE. (I.E. BETWEEN ADJACENT RIBS)
2. CONTRACTOR SHALL MAKE ALL EFFORTS TO MINIMIZE THE OCCURRENCE OF BUTT JOINTS. CONTRACTOR SHALL SUBMIT FOR PRIOR APPROVAL, DRAWINGS SHOWING THE LOCATION OF ALL BUTT JOINTS IN ALL FORMS USED FOR CONSTRUCTION.
3. STA. 351+87.08 W/L TO STA. 351+23.97 W/L SHOWN, STA. 350+68.11 W/L TO STA. 350+00.5 W/L OPPOSITE HAND

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

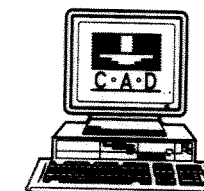



SCALE: 1" = 1'- 0"



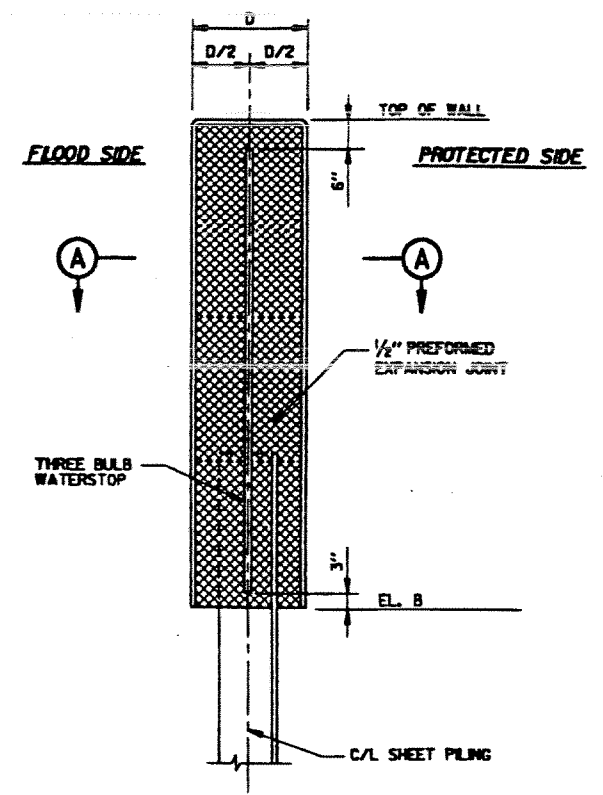
REFERENCE DRAWINGS

FOR GENERAL NOTES, SEE DWG. 2  
 FOR PLAN AND PROFILE, SEE DWGS. 4 AND 15.  
 FOR TYPICAL WALL SECTIONS, SEE DWG. 15.

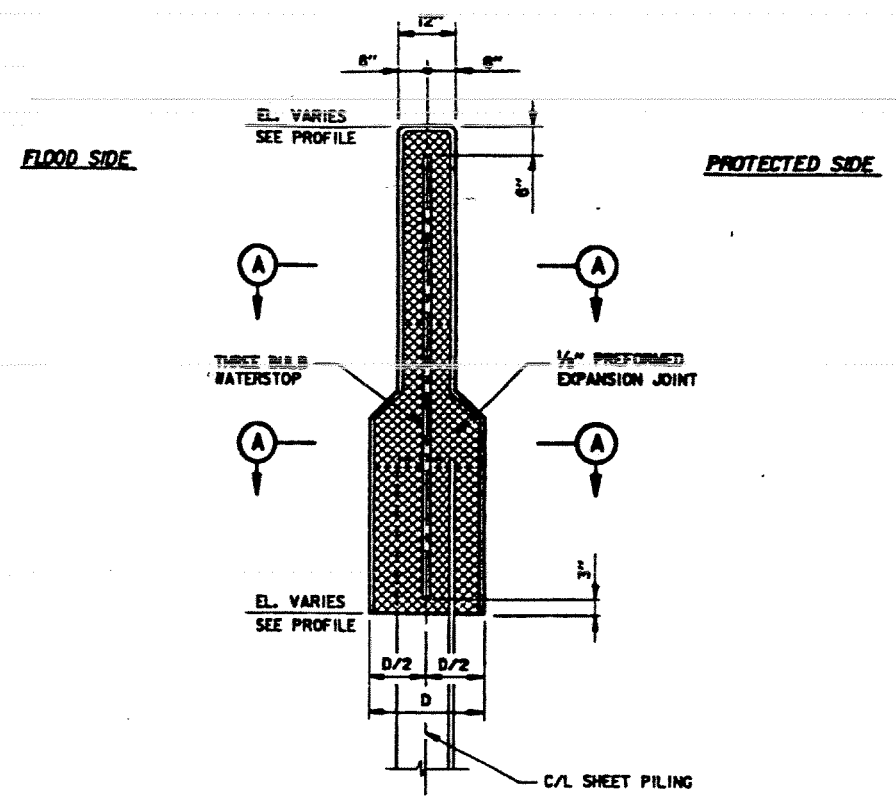


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>TYPICAL SECTION</b> <b>ARCHITECTURAL TREATMENT</b> <b>VICINITY TOPAZ STREET GATE</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 24	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 44577P38.DGN	FILE NO: H-8-44577
SUBMITTED BY: R.GRUBB	SOLICITATION NO: DACW29-97-B-0075	DESIGN ENGINEER	DWG. 38 OF 49

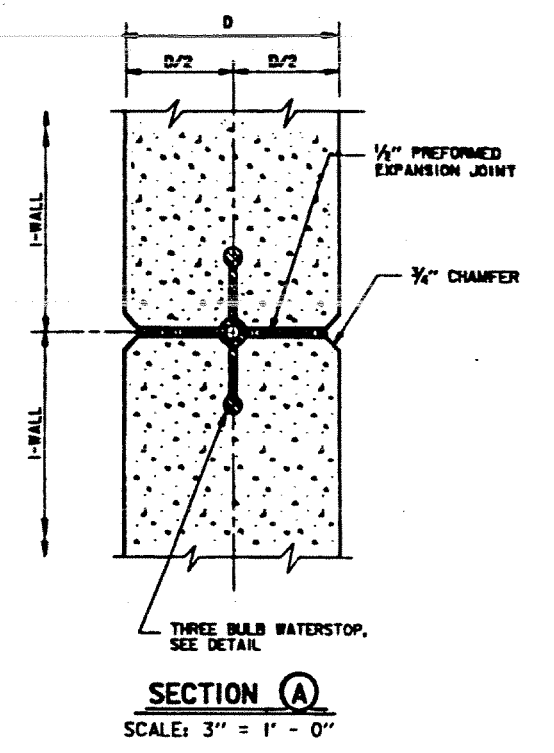
**Safety is a Part of Your Contract**



**TYPICAL RECTANGULAR I-WALL SECTION**  
SCALE: 3/4" = 1'-0"



**TYPICAL NECK-DOWN I-WALL SECTION**  
SCALE: 3/4" = 1'-0"

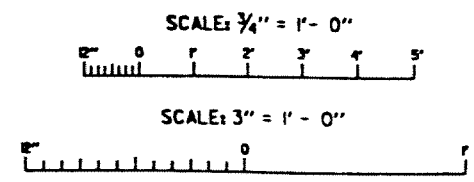


**SECTION (A)**  
SCALE: 3" = 1'-0"

RECTANGULAR I-WALL SCHEDULE Δ				
LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE	ELEVATIONS		
		"D"	A	B & C
LAKE MARINA AVE.	2'-0" AND 2'-8"	14.0	EL. VARIES, SEE PROFILE, DWG. 13	
TOPAZ ST. FLOODGATE	2'-3"	19.0	EL. VARIES, SEE PROFILE, DWG. 15	
BAYOU ST. JOHN (WEST)	2'-8"	18.0	EL. VARIES, SEE PROFILE, DWG. 17	
BAYOU ST. JOHN (EAST)	2'-8"	18.5	EL. VARIES, SEE PROFILE, DWG. 18	
CAMP LEROY JOHNSON	2'-0"	18.5	EL. VARIES, SEE PROFILE, DWG. 20	
COLLINS PIPELINE	2'-2"	22.0	EL. VARIES, SEE PROFILE, DWG. 24	

NECK DOWN I-WALL SCHEDULE Δ				
LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE	ELEVATIONS		
		"D"	A	B
FRANKLIN AVENUE	2'-0"	20.5	EL. VARIES, SEE PROFILE, DWG. 19	
LINCOLN BEACH	2'-0"	14.0	EL. VARIES, SEE PROFILE, DWGS. 21 & 22	
COLLINS PIPELINE	2'-2"	22.0	EL. VARIES, SEE PROFILE, DWG. 24	

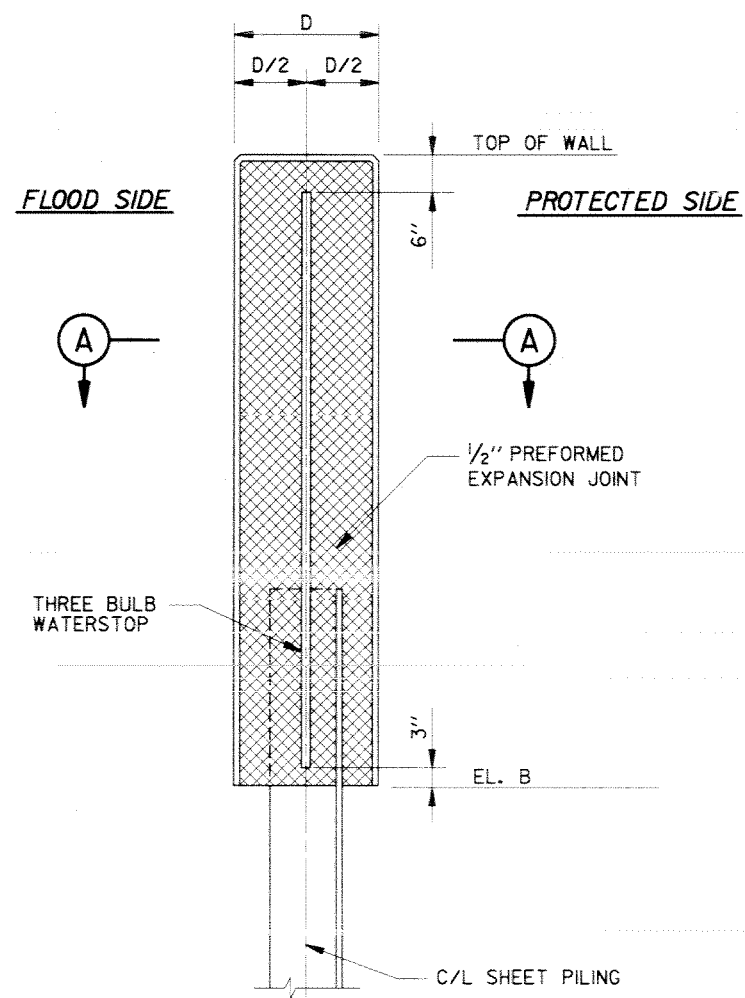
- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR TYPICAL SECTIONS, SEE DWGS. 14 THRU 20, 23 AND 24.
  3. FOR MISCELLANEOUS DETAILS, SEE DWG. 48.
  4. FOR PLAN AND PROFILES, SEE DWGS. 3 THRU 22.



Δ REVISED I-WALL SCHEDULES SYMBOL DESCRIPTION DATE APPROVED		7-17-98 R.M.D.
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA		
LAKE PORTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.N.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>TYPICAL JOINT DETAILS</b>		
DESIGNED BY: R.LORING DRAWN BY: L.WARREN CHECKED BY: R.LORING	DATE: MARCH 97	PLOT SCALE: 1/8" = 1'-0" FILE NO.: H-8-44577
DRAWN BY: R.LORING	REVISION NO.: DACW29-97-8-0075	PLOT DATE: DEC 97 SHEET NO.: 39 OF 49

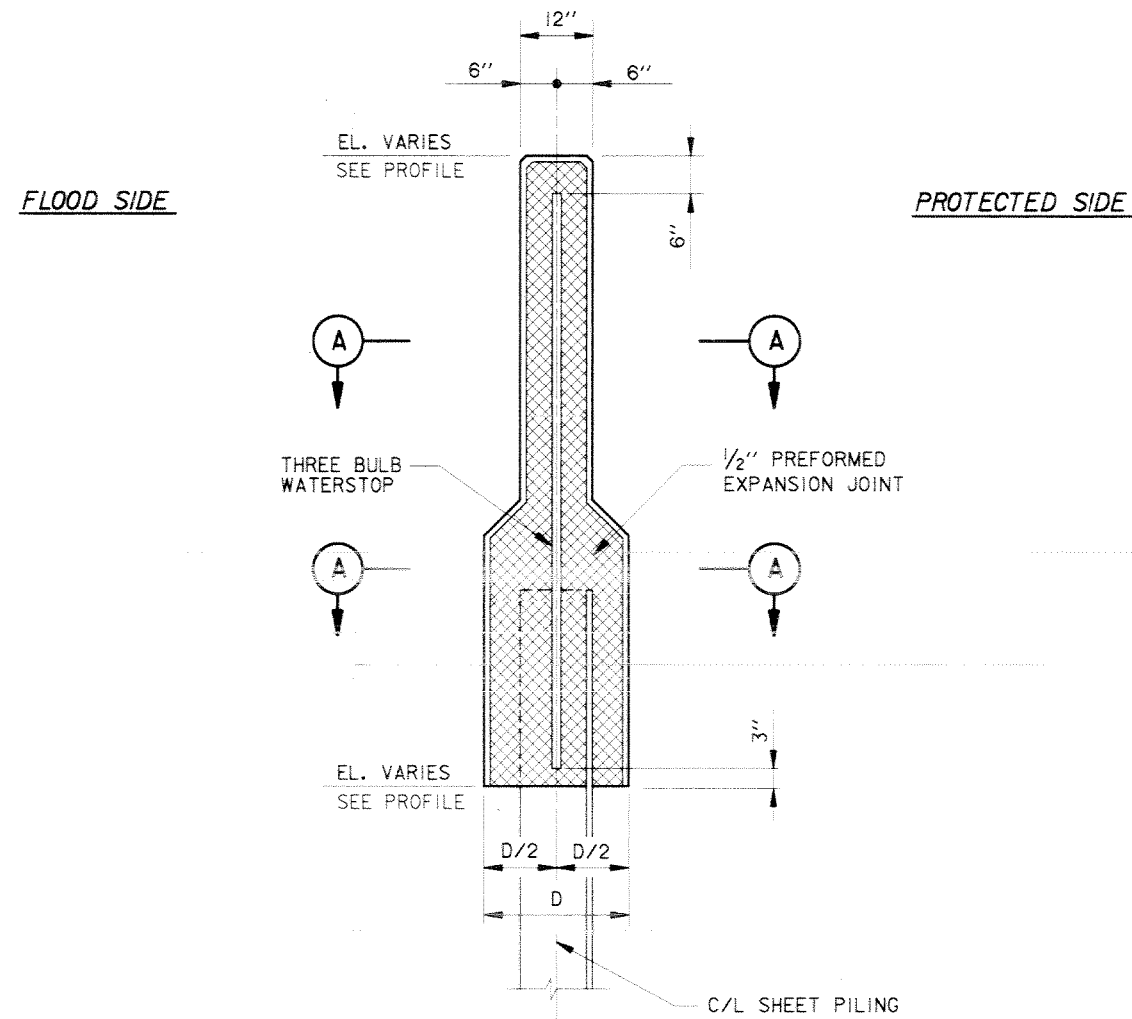


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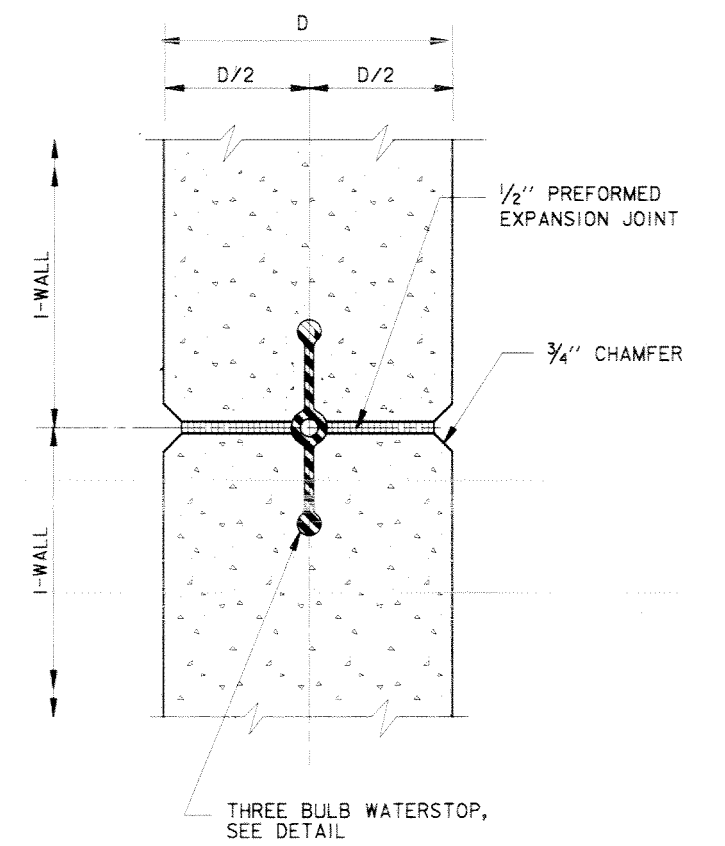
TYPICAL RECTANGULAR I-WALL SECTION

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



TYPICAL NECK-DOWN I-WALL SECTION

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



SECTION A

SCALE: 3" = 1' - 0"

RECTANGULAR I-WALL SCHEDULE

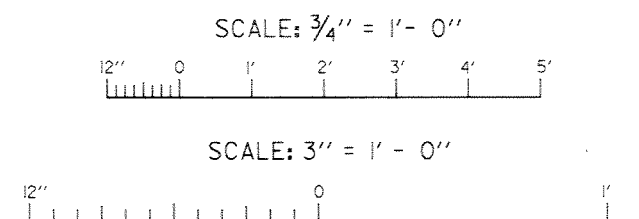
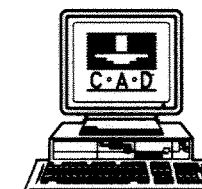
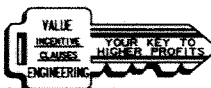
LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE "D"	ELEVATIONS	
		A	B & C
LAKE MARINA AVE.	2'-0" AND 2'-6"	14.0	EL. VARIES, SEE PROFILE, DWG. 13
TOPAZ ST. FLOODGATE	2'-3"	19.0	EL. VARIES, SEE PROFILE, DWG. 15
BAYOU ST. JOHN (WEST)	2'-6"	18.0	EL. VARIES, SEE PROFILE, DWG. 17
BAYOU ST. JOHN (EAST)	2'-6"	18.5	EL. VARIES, SEE PROFILE, DWG. 18
CAMP LEROY JOHNSON	2'-0"	18.5	EL. VARIES, SEE PROFILE, DWG. 20

NECK DOWN I-WALL SCHEDULE

LOCATION (SEE PROFILES FOR STATIONS)	DISTANCE "D"	ELEVATIONS	
		A	B
FRANKLIN AVENUE	2'-0"	20.5	EL. VARIES, SEE PROFILE, DWG. 19
LINCOLN BEACH	2'-0"	14.0	EL. VARIES, SEE PROFILE, DWGS. 21 & 22
COLLINS PIPELINE	1'-9"	22.0	EL. VARIES, SEE PROFILE, DWG. 24

NOTES:

- FOR GENERAL NOTES, SEE DWG. 2.
- FOR TYPICAL SECTIONS, SEE DWGS. 14 THRU 20, 23 AND 24.
- FOR MISCELLANEOUS DETAILS, SEE DWG. 48.
- FOR PLAN AND PROFILES, SEE DWGS. 3 THRU 22.



SYMBOL	DESCRIPTION	DATE	APPROVED
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REVISIONS

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

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
MISCELLANEOUS FLOODWALL CAPPING  
ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
LAKE MARINA AVE. TO COLLINS PIPELINE

TYPICAL JOINT DETAILS

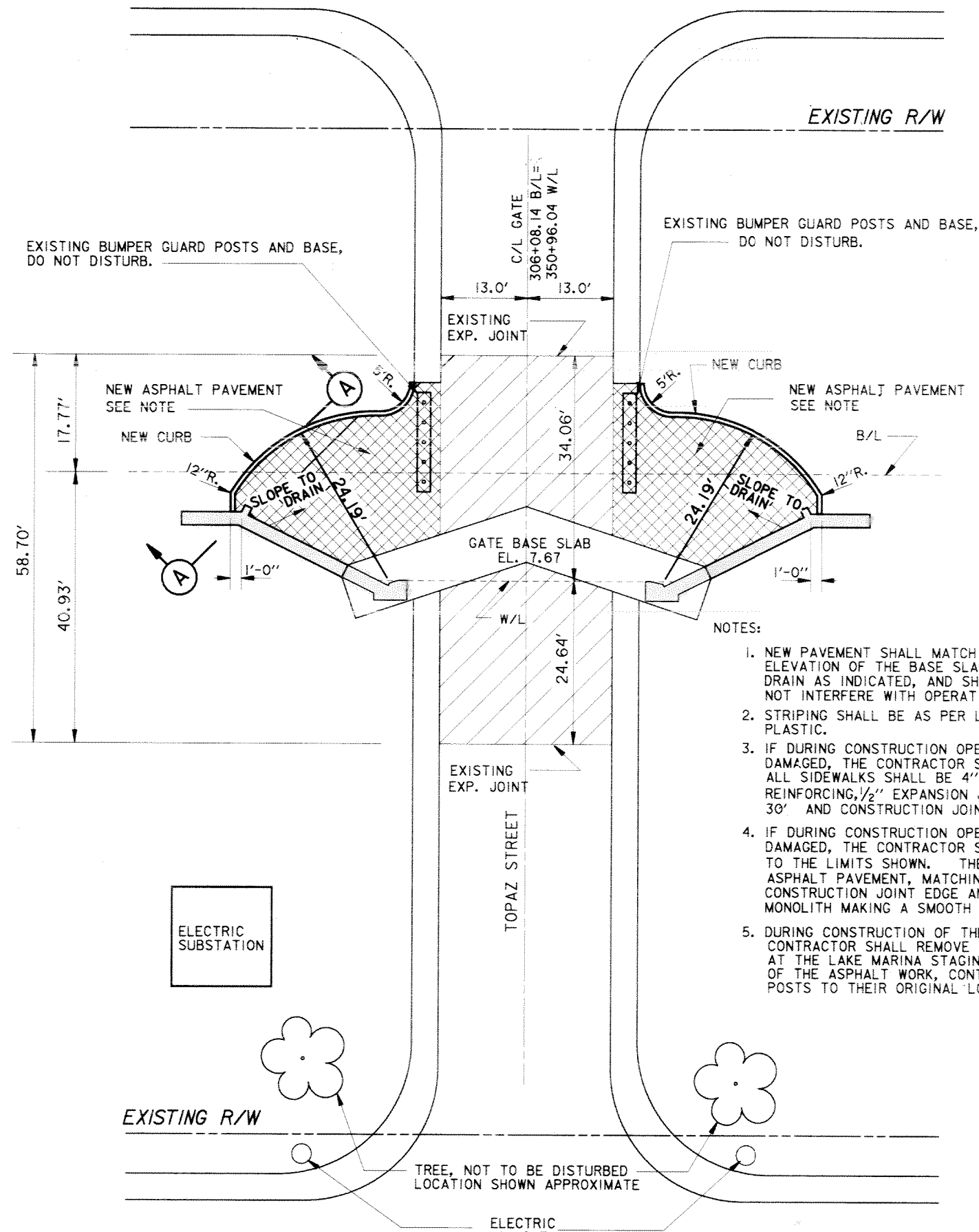
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P39.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 39 OF 49



FLOOD SIDE

LAKESHORE DRIVE

EXISTING R/W



EXISTING BUMPER GUARD POSTS AND BASE, DO NOT DISTURB.

EXISTING BUMPER GUARD POSTS AND BASE, DO NOT DISTURB.

NEW ASPHALT PAVEMENT SEE NOTE

NEW ASPHALT PAVEMENT SEE NOTE

58.70'  
40.93'

GATE BASE SLAB EL. 7.67

ELECTRIC SUBSTATION

EXISTING EXP. JOINT

TOPAZ STREET

EXISTING R/W

TREE, NOT TO BE DISTURBED LOCATION SHOWN APPROXIMATE

ELECTRIC MANHOLE

LAKESHORE PARKWAY

PROTECTED SIDE

TOPAZ STREET GATE

PLAN

SCALE: 1" = 10'

NOTES:

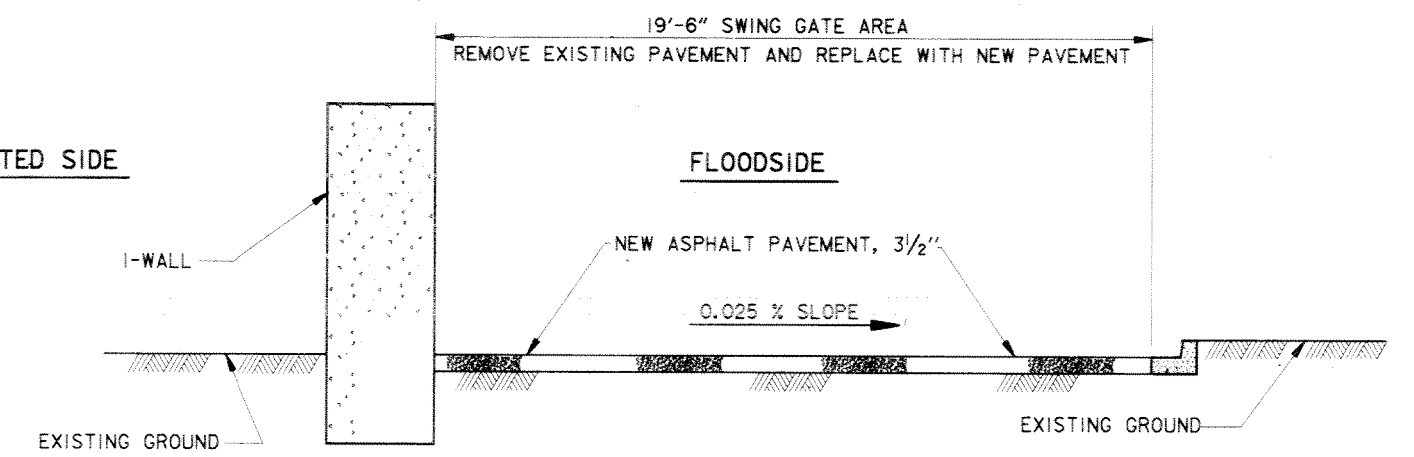
1. NEW PAVEMENT SHALL MATCH THE ELEVATION OF THE BASE SLAB, SLOPED TO DRAIN AS INDICATED, AND SHALL NOT INTERFERE WITH OPERATION OF GATE.
2. STRIPING SHALL BE AS PER LADOTD, PM-03, THERMO PLASTIC.
3. IF DURING CONSTRUCTION OPERATIONS THE SIDEWALK IS DAMAGED, THE CONTRACTOR SHALL REPLACE THE SIDEWALKS. ALL SIDEWALKS SHALL BE 4" THICK CONCRETE WITH W2.9 X W2.9 WWF REINFORCING, 1/2" EXPANSION JOINT FILLER MATERIAL AT APPROX. 30' AND CONSTRUCTION JOINTS 5' O.C.
4. IF DURING CONSTRUCTION OPERATIONS THE ROADWAY IS DAMAGED, THE CONTRACTOR SHALL REPLACE THE ROADWAY TO THE LIMITS SHOWN. THE CONTRACTOR SHALL PROVIDE NEW ASPHALT PAVEMENT, MATCHING EXISTING ELEVATIONS ALONG CONSTRUCTION JOINT EDGE AND SLOPE NEW PAVEMENT TO GATE MONOLITH MAKING A SMOOTH TRANSITION.
5. DURING CONSTRUCTION OF THE NEW ASPHALT APRON OR ROADWAY, CONTRACTOR SHALL REMOVE AND STORE THE BUMPER GUARD POSTS AT THE LAKE MARINA STAGING AREA. AFTER SATISFACTORY COMPLETION OF THE ASPHALT WORK, CONTRACTOR SHALL RETURN BUMPER GUARD POSTS TO THEIR ORIGINAL LOCATIONS.

5. FOR PLAN, SEE DWG. 4.
6. FOR PROFILE, SEE DWG. 15.
7. FOR GENERAL NOTES, SEE DWG. 2.

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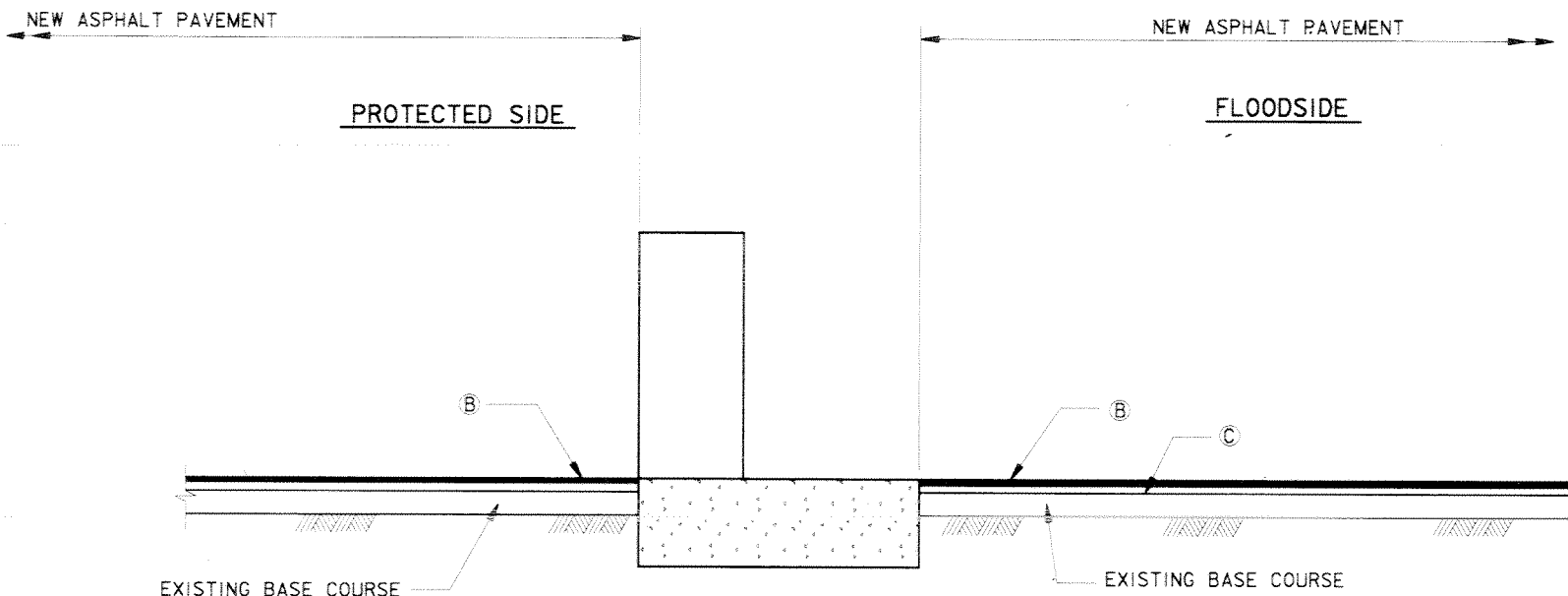
PROTECTED SIDE

FLOODSIDE



SECTION A

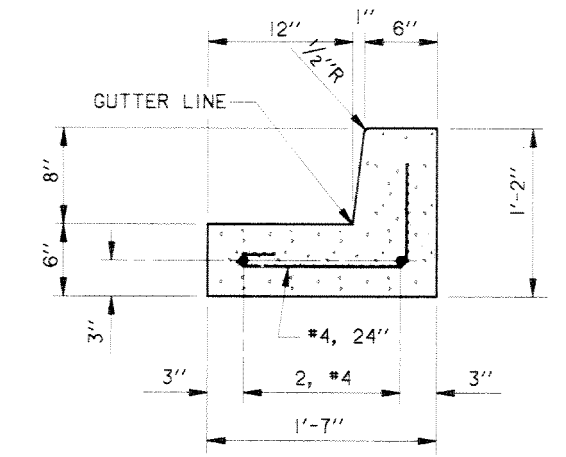
SCALE: 3/8" = 1' - 0"



SECTION THRU C/L TOPAZ STREET & GATE MONOLITH

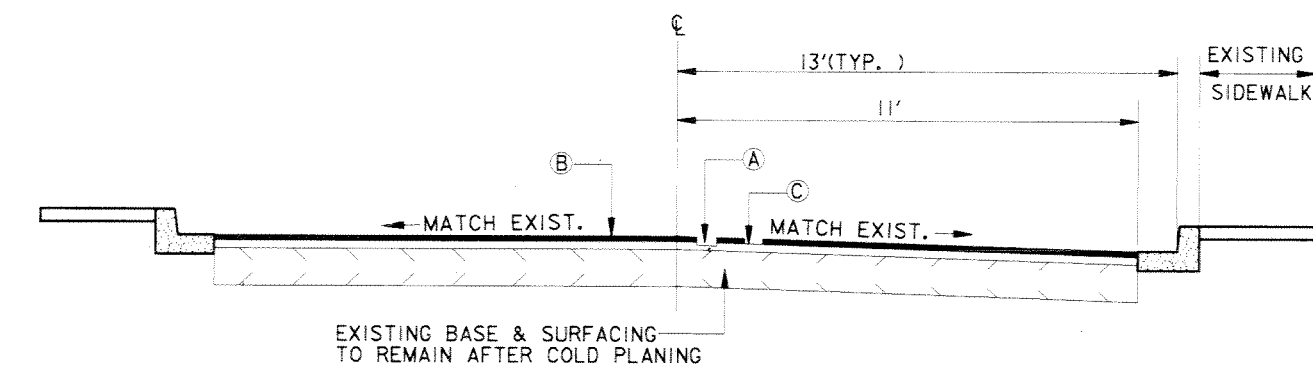
SCALE: 3/8" = 1' - 0"

- (A) COLD PLANE EXISTING SURFACE AS REQUIRED (LSSRB ITEM 509).
- (B) REQ'D 1.5" ASPHALTIC CONCRETE (TYPE 3) (WEARING COURSE) (LSSRB ITEM 501(01)).
- (C) REQ'D 2" ASPHALTIC CONCRETE (TYPE 3) (BINDER COURSE) (LSSRB ITEM 501(01)).



8" VERTICAL CURB

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



EXISTING BASE & SURFACING TO REMAIN AFTER COLD PLANING

NOTE: STRIPE LANES AT 11' WIDTH.

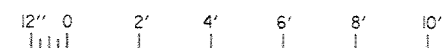
TYPICAL FINISHED SECTION

TOPAZ STREET C/L STA. 306+08.14 B/L

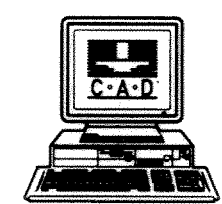
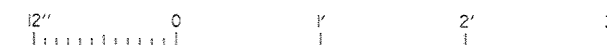
SCALE: 1" = 10'



SCALE: 3/8" = 1' - 0"



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



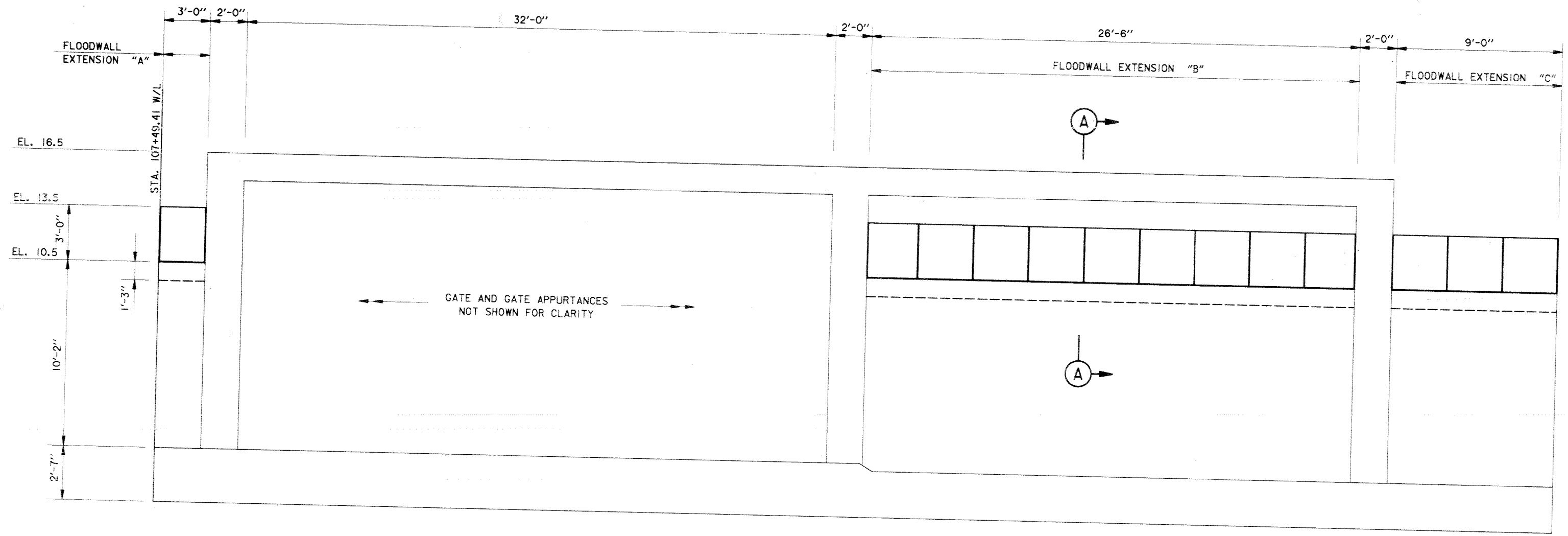
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

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

LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
NEW ORLEANS LAKEFRONT LEVEE  
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LAKE MARINA AVE. TO COLLINS PIPELINE

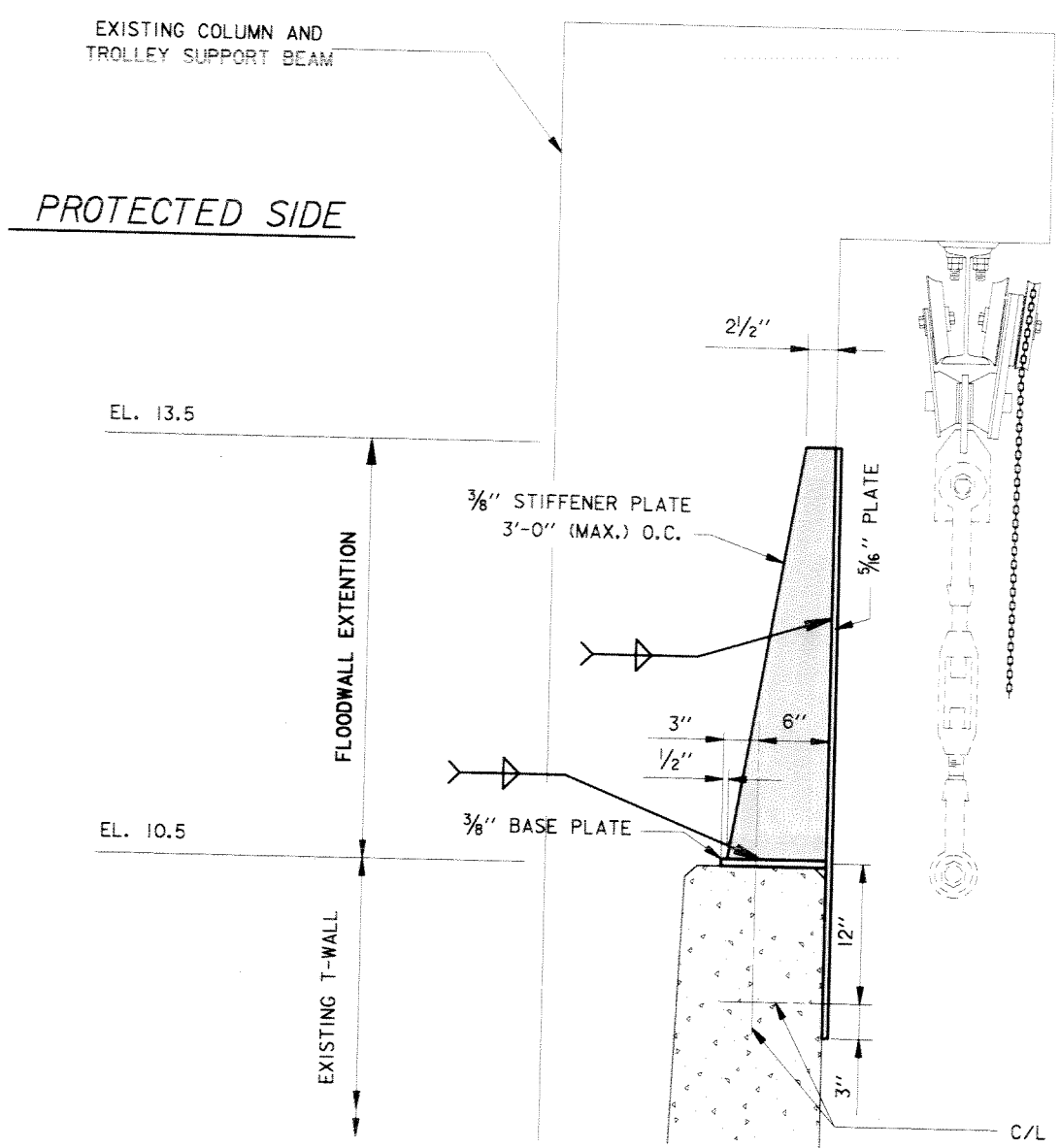
PAVEMENT DETAILS VICINITY TOPAZ STREET GATE

DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 120	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 4657740.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 40 OF 49	



**PROTECTED SIDE ELEVATION**

SCALE: 3/8" = 1' - 0"



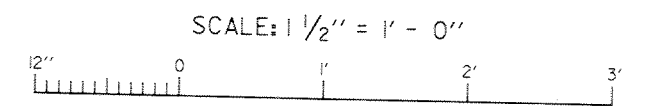
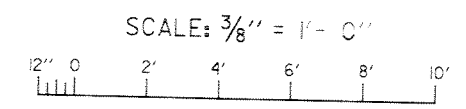
**SECTION A**

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

*FLOOD SIDE*

- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWGS. 9 THRU 11.
  3. FOR PROFILE, SEE DWGS. 21 AND 22.

NOTE:  
1. UNLESS OTHERWISE NOTED ALL WELDS SHALL BE 1/4" AND CONTINUOUS ALONG THE EDGE OF THE MEMBER.



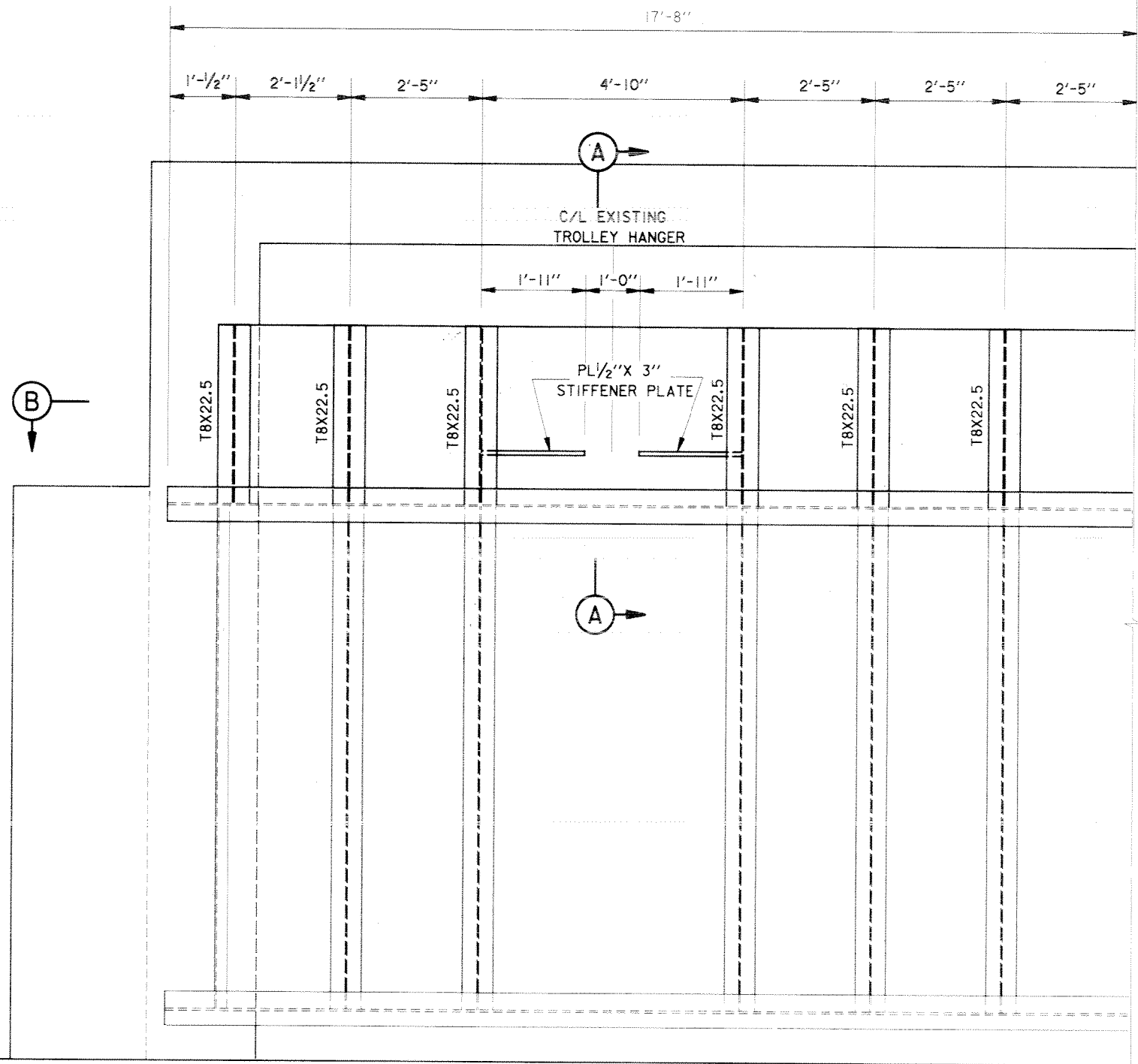
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SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE			
<b>FLOODWALL EXTENSION</b> <b>VICINITY LINCOLN BEACH</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 32	PLOT DATE: DEC 97
DRAWN BY: R.GRUBB	CADD FILE: 4457742.DGN	FILE NO.	H-8-44577
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 42 OF 49

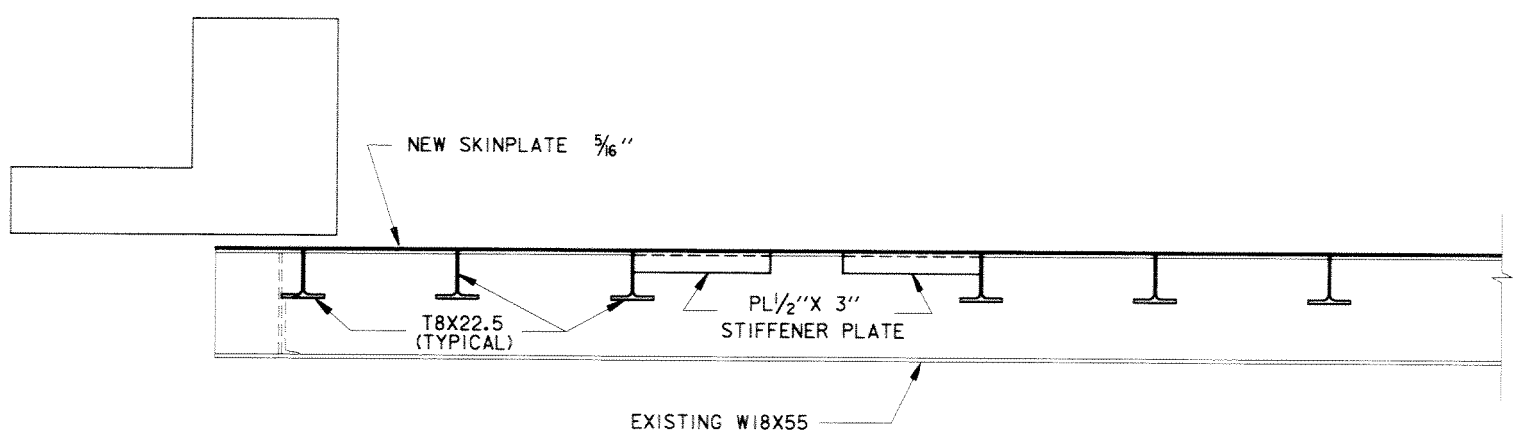


SYMMETRICAL ABOUT CENTERLINE



**FLOODSIDE ELEVATION**

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



**SECTION (B)**

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

EXISTING COLUMN AND TROLLEY SUPPORT BEAM

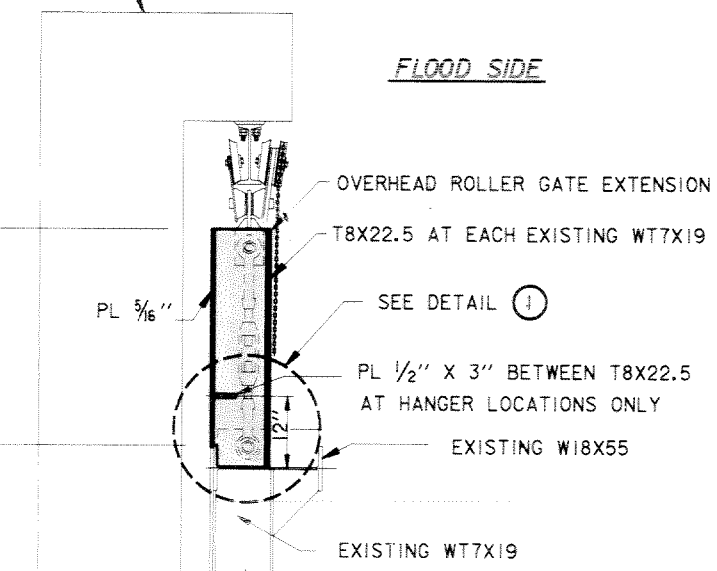
PROTECTED SIDE

FLOOD SIDE

EL. 13.5

EL. 10.5 ±

FLOODGATE EXTENSION  
EXISTING FLOOD GATE



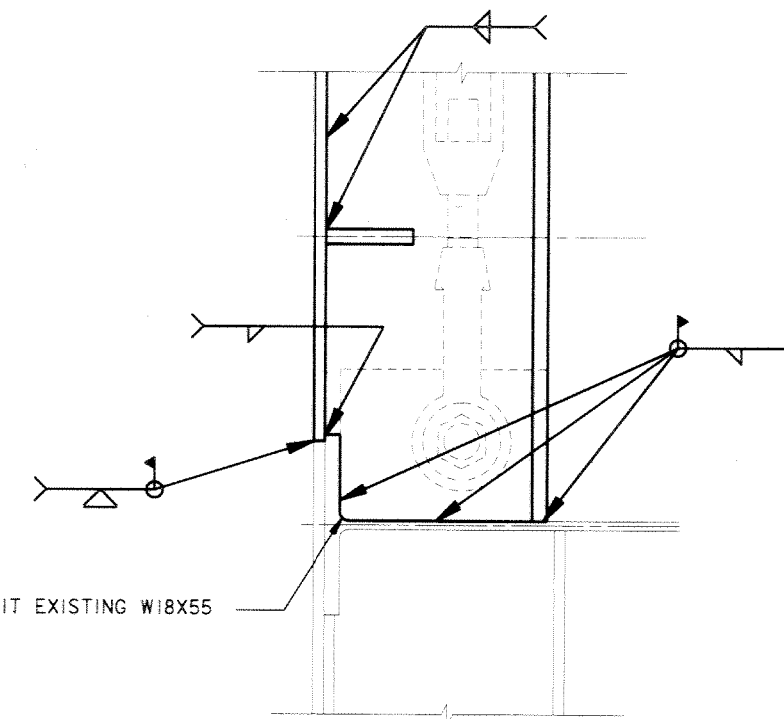
GATE SEALS AND OTHER GATE APPURTANCES NOT SHOWN FOR CLARITY

**SECTION (A)**

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

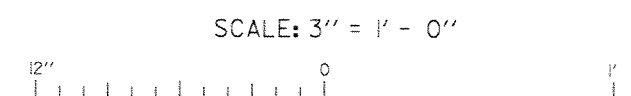
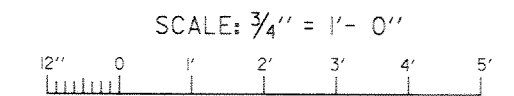
NOTES:

1. PRIOR TO FIELD WELDING, ALL EXISTING PAINT SHALL BE REMOVED IN THE IMMEDIATE AREA OF THE WELDS.
2. UNLESS OTHERWISE NOTED, ALL WELDS SHALL BE 1/4" AND CONTINUOUS ALONG THE EDGE OF THE MEMBER.
3. AFTER FIELD WELDING, ALL WELDS SHALL BE PAINTED AS PER THE SPECIFICATIONS.
4. FOR PLAN, SEE DWGS. 9 THRU 11.
5. FOR PROFILE, SEE DWG. 7.
6. FOR GENERAL NOTES, SEE DWG. 2.
7. ALL MODIFICATIONS, SANDBLASTING, AND PAINTING OF EXISTING GATE AND GATE EXTENSION SHALL BE DONE TO AVOID DAMAGES TO PRIVATE PROPERTIES.

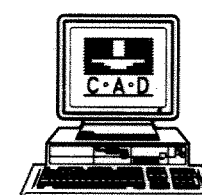


**DETAIL (I)**

SCALE: 3" = 1'- 0"

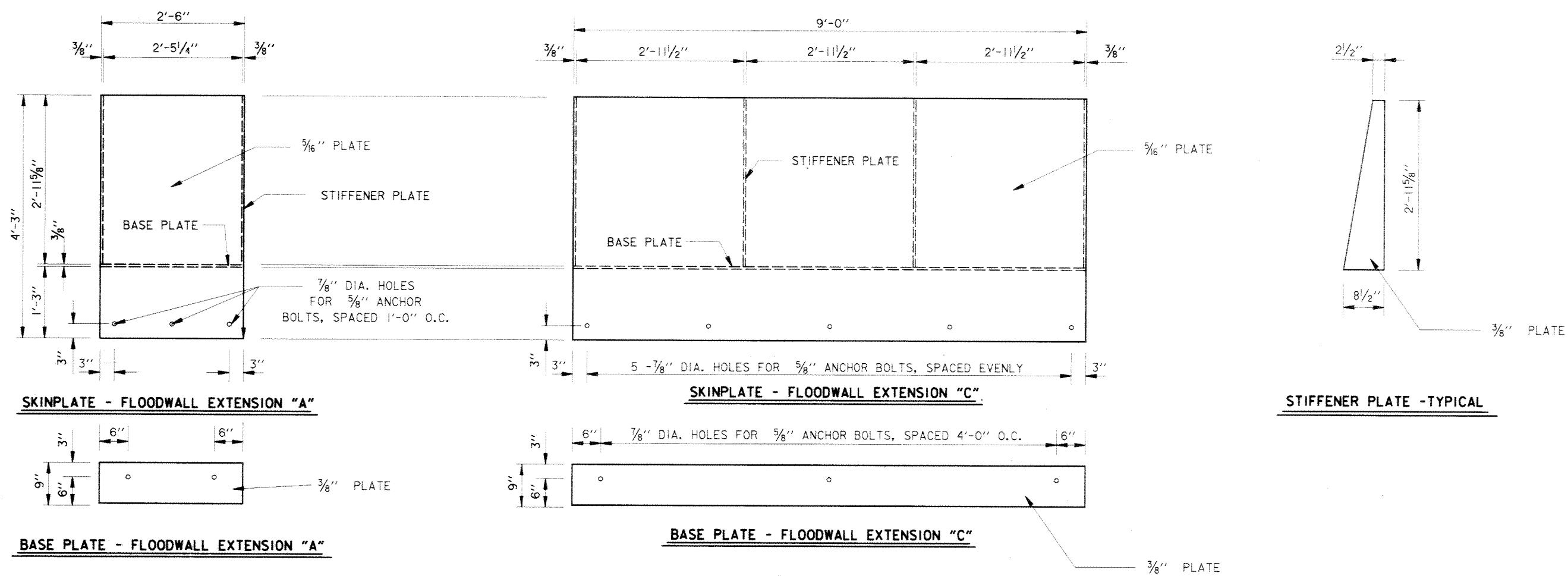
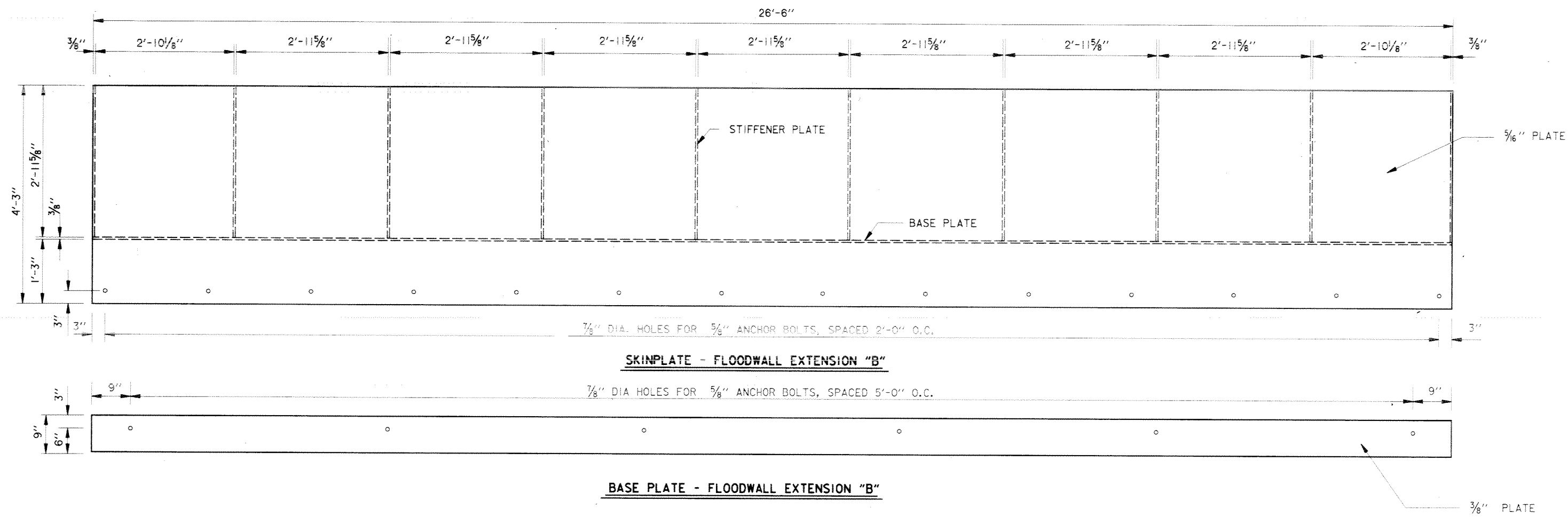


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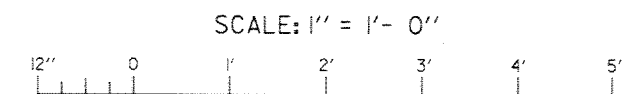


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>FLOOD GATE EXTENSION</b> VICINITY LINCOLN BEACH			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 44577P41.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB	DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075	DWG. 41 OF 49

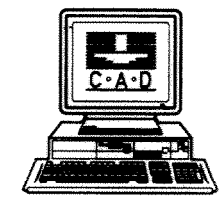
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- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWGS. 9 THRU 11.
  3. FOR PROFILE, SEE DWGS. 21 AND 22.
  4. FOR FLOODWALL EXTENSION, SEE DWG. 42.

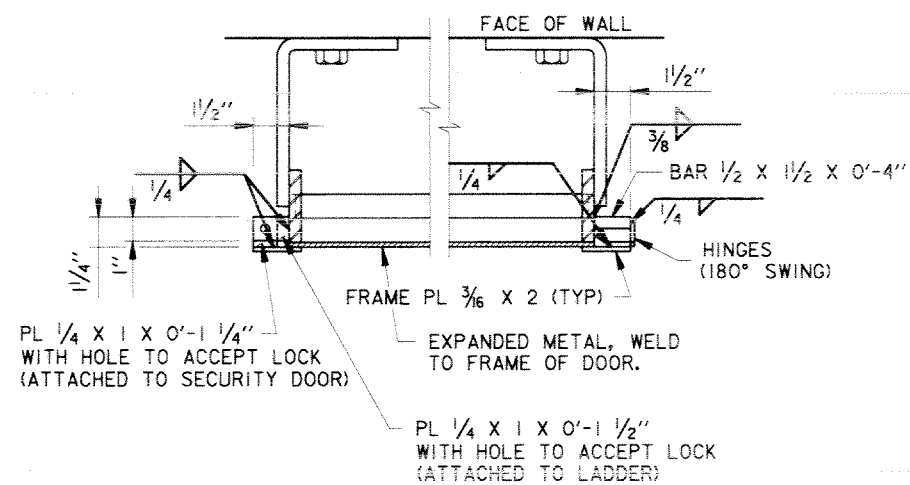


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>FLOODWALL EXTENSION DETAILS</b> VICINITY LINCOLN BEACH			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 12	PLOT DATE: DEC 97
DRAWN BY: R.GRUBB	CADD FILE: 44577P43.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB		
SOLICITATION NO. DACW29-97-B-0097		DWG. 43 OF 49	

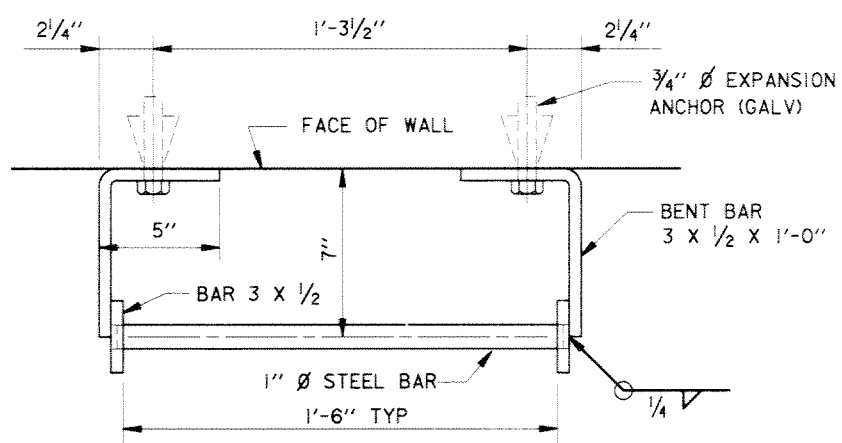




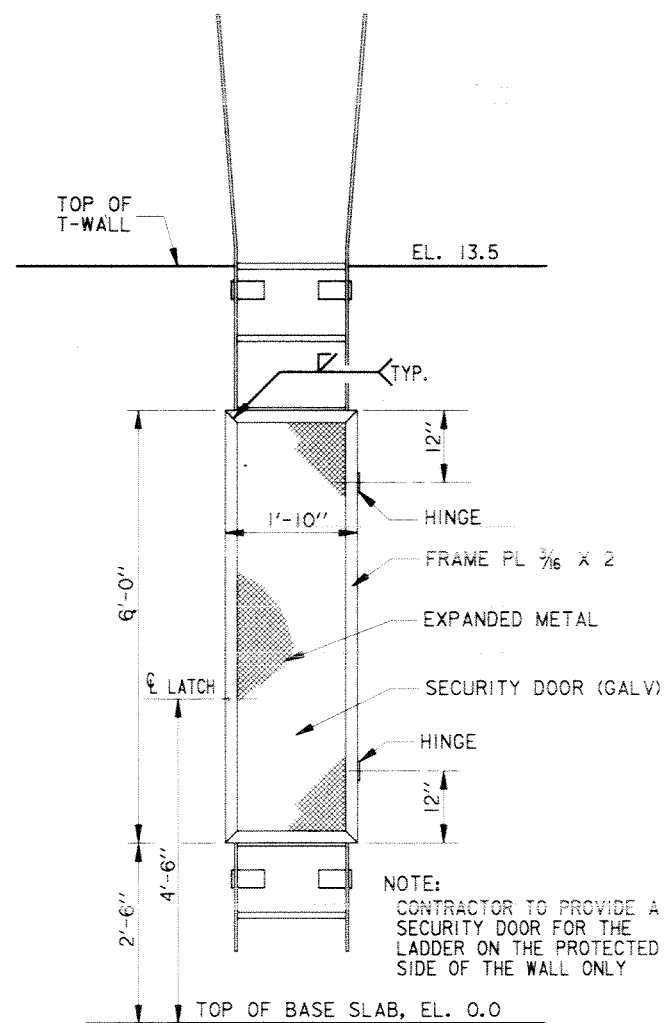
NOTE: ALL LADDERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.



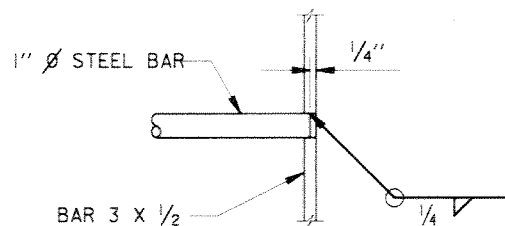
**PLAN**  
SCALE: 3/8" = 1' - 0"



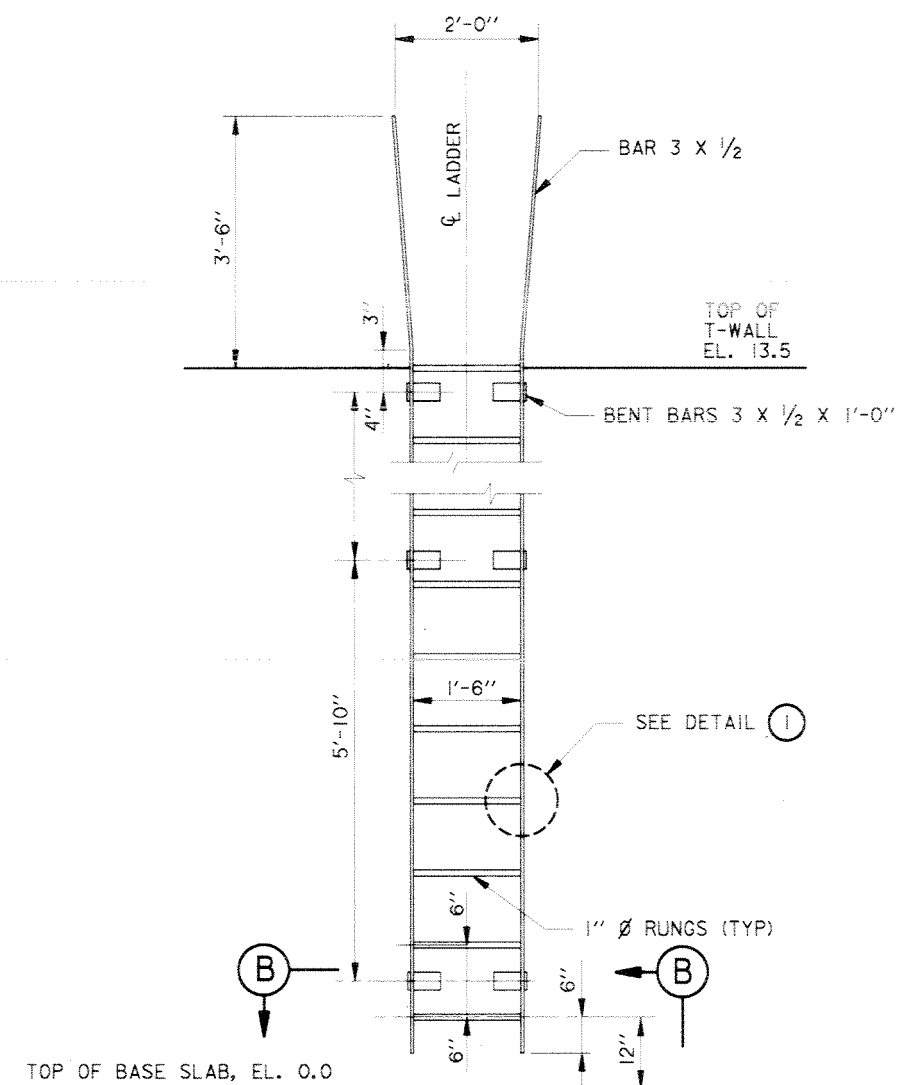
**SECTION (B)**  
SCALE: 3" = 1' - 0"



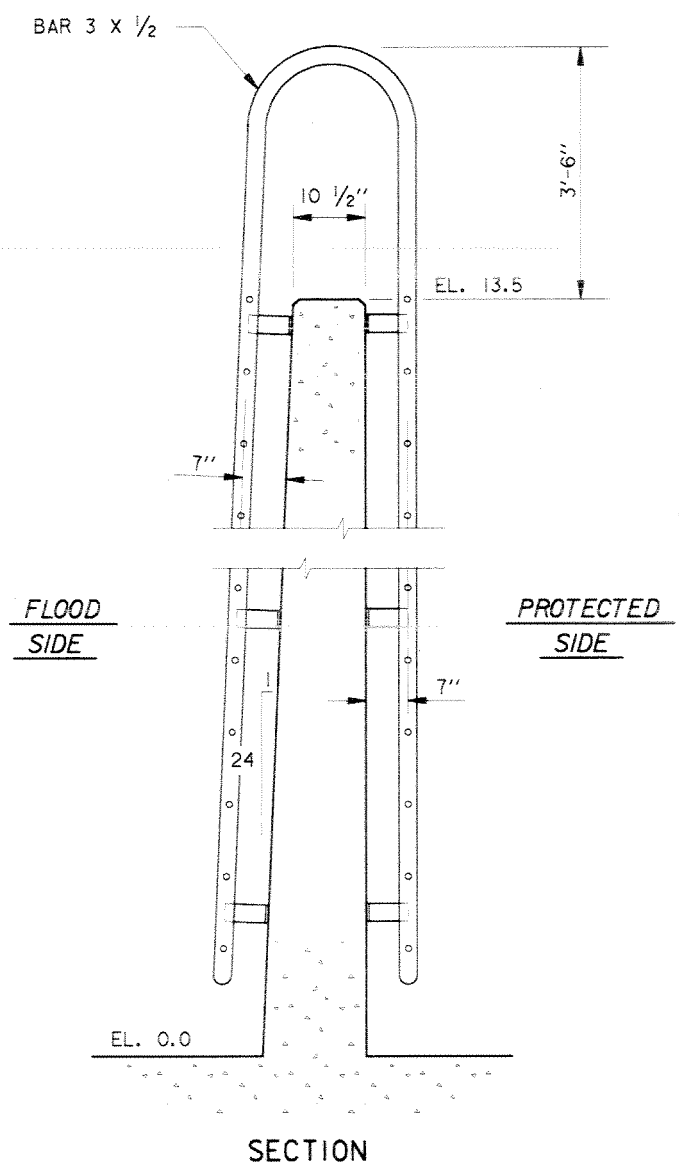
**PROTECTED SIDE ELEVATION**  
SCALE: 3/4" = 1' - 0"



**DETAIL 1**  
SCALE: 3" = 1' - 0"



**PROTECTED SIDE ELEVATION**



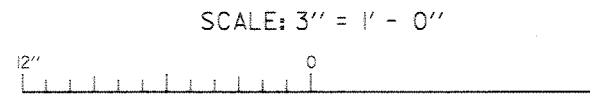
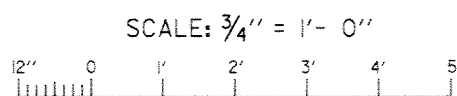
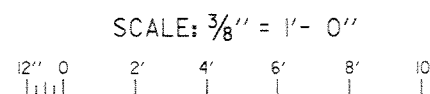
**SECTION**

**LADDER DETAILS**  
SCALE: 3/4" = 1' - 0"

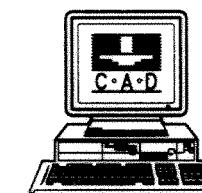
**LADDER SECURITY DOOR DETAILS**

NOTES:

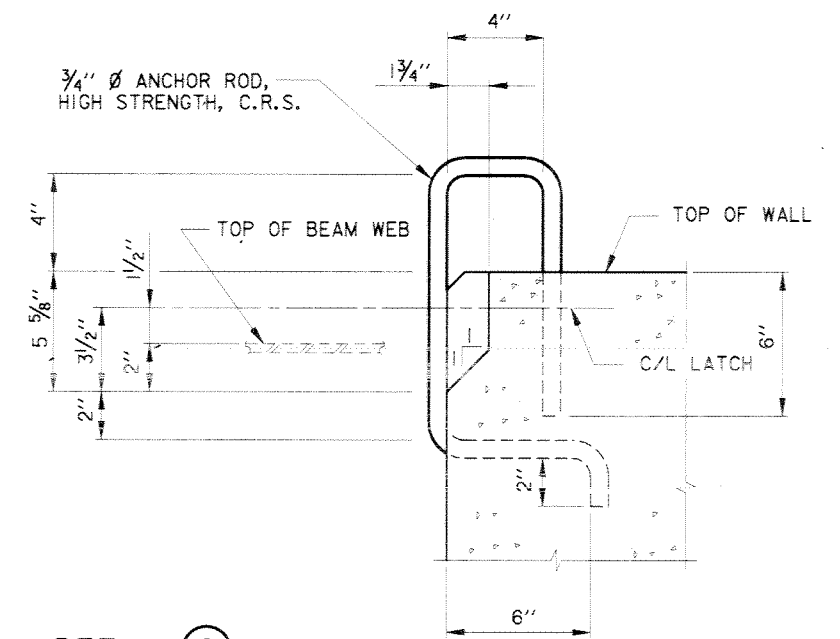
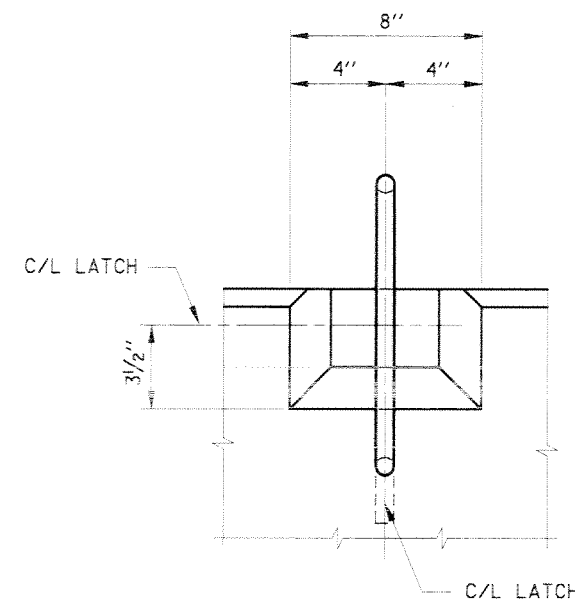
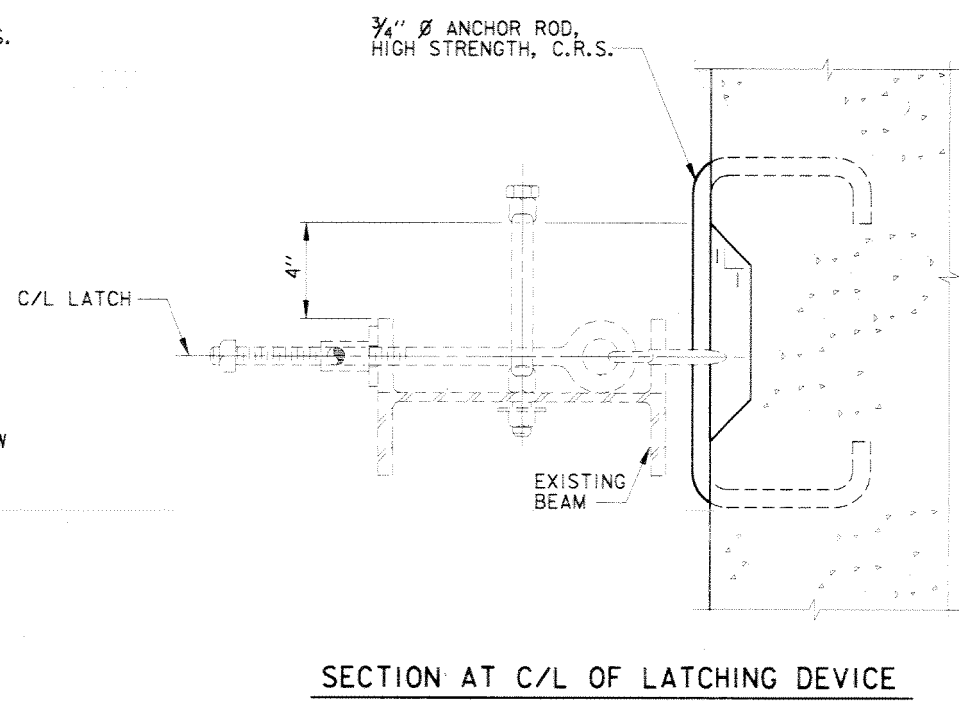
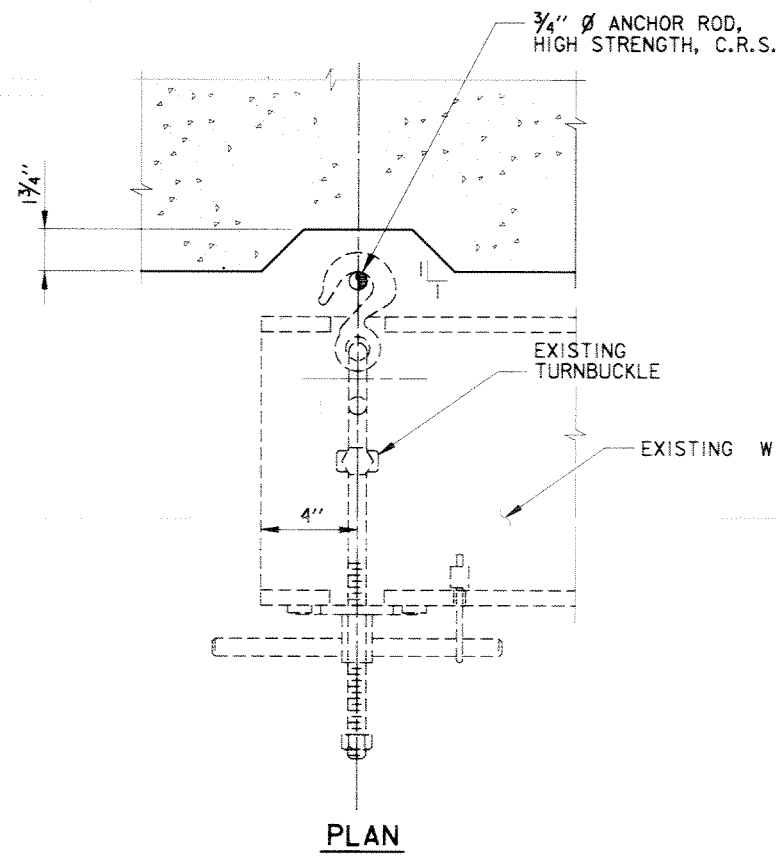
1. FOR GENERAL NOTES, SEE DWG. 2.
2. FOR PLAN, SEE DWGS. 9 THRU 11.
3. FOR PROFILE, SEE DWGS. 21 AND 22.



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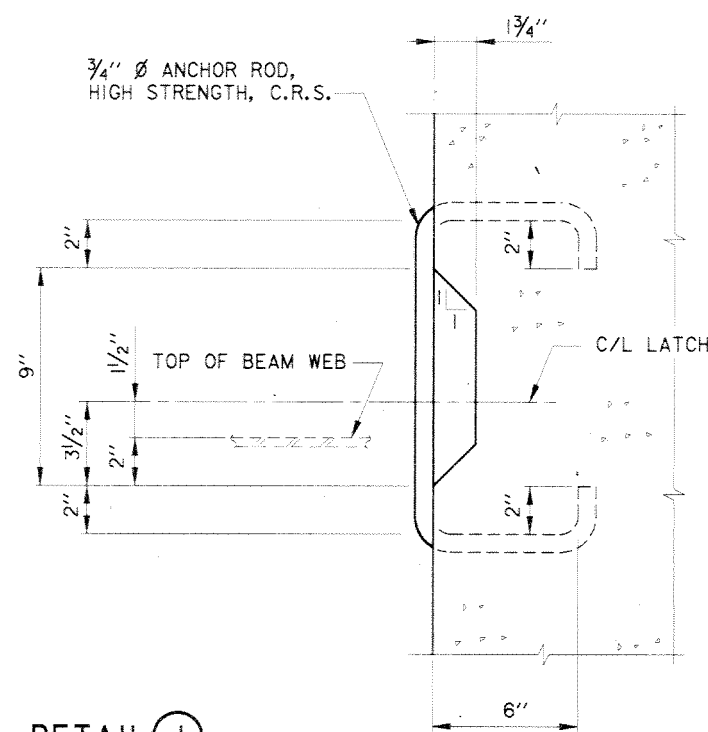
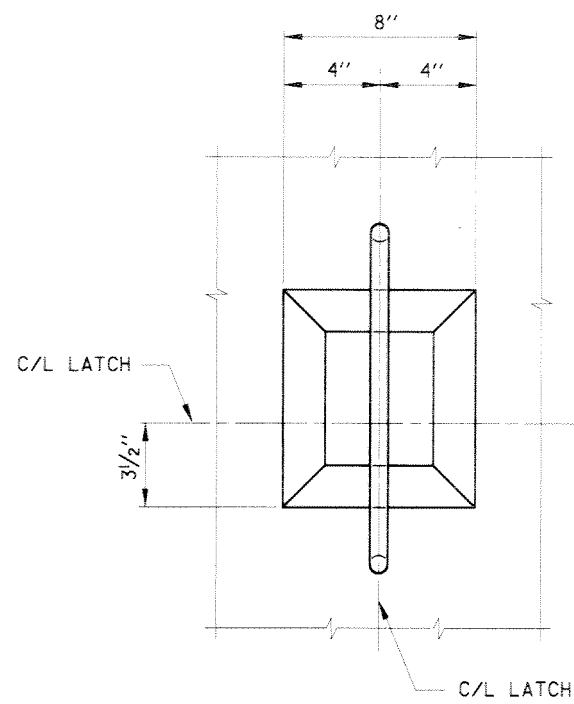
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE MISCELLANEOUS FLOODWALL CAPPING ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>TYPICAL LADDER DETAILS</b> VICINITY LINCOLN BEACH AT STA. 108+40 ± W/L			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 4457P44.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 44 OF 49



LATCHING DEVICE

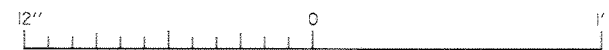
NOTES:

1. FOR GENERAL NOTES, SEE DWG. 2.
2. FOR PLAN, SEE DWGS. 9 THRU 11.
3. FOR PROFILE, SEE DWGS. 21 AND 22.



DETAIL 1

SCALE: 3" = 1' - 0"

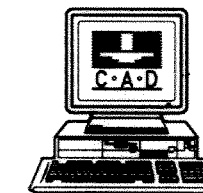


SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			

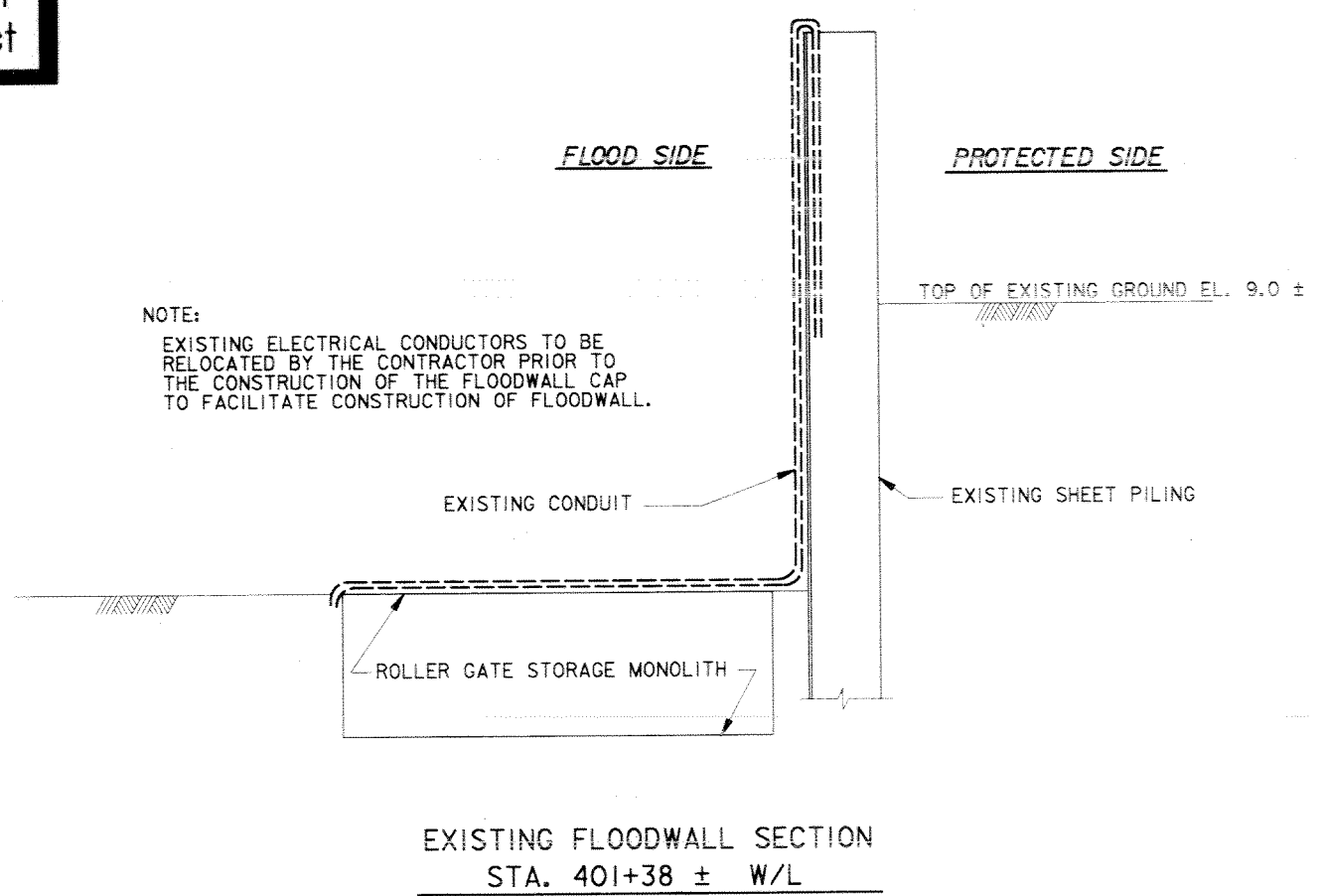
U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS  
 CORPS OF ENGINEERS  
 NEW ORLEANS, LOUISIANA  
 LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY  
 NEW ORLEANS LAKEFRONT LEVEE  
 MISCELLANEOUS FLOODWALL CAPPING  
 ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C.  
 LAKE MARINA AVE. TO COLLINS PIPELINE  
**LATCHING DETAILS**  
 VICINITY LINCOLN BEACH

DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 4	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CHECKED BY: R.GRUBB	CADD FILE: 44577P45.DGN	FILE NO. H-8-44577
SUBMITTED BY: R.GRUBB DESIGN ENGINEER	SOLICITATION NO. DACW29-97-B-0075	DWG. 45 OF 49	

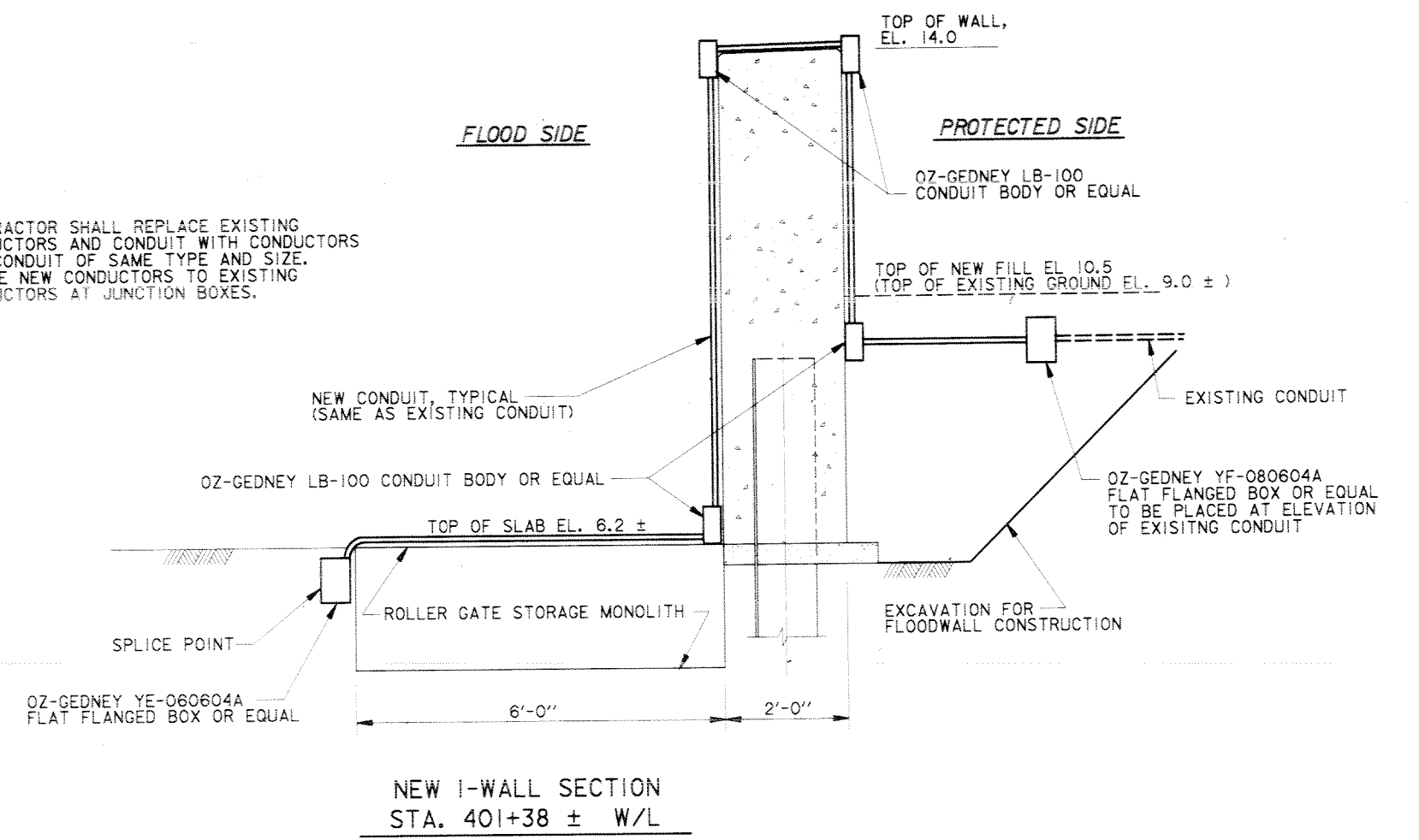
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of Your Contract



**Safety is a Part  
of Your Contract**

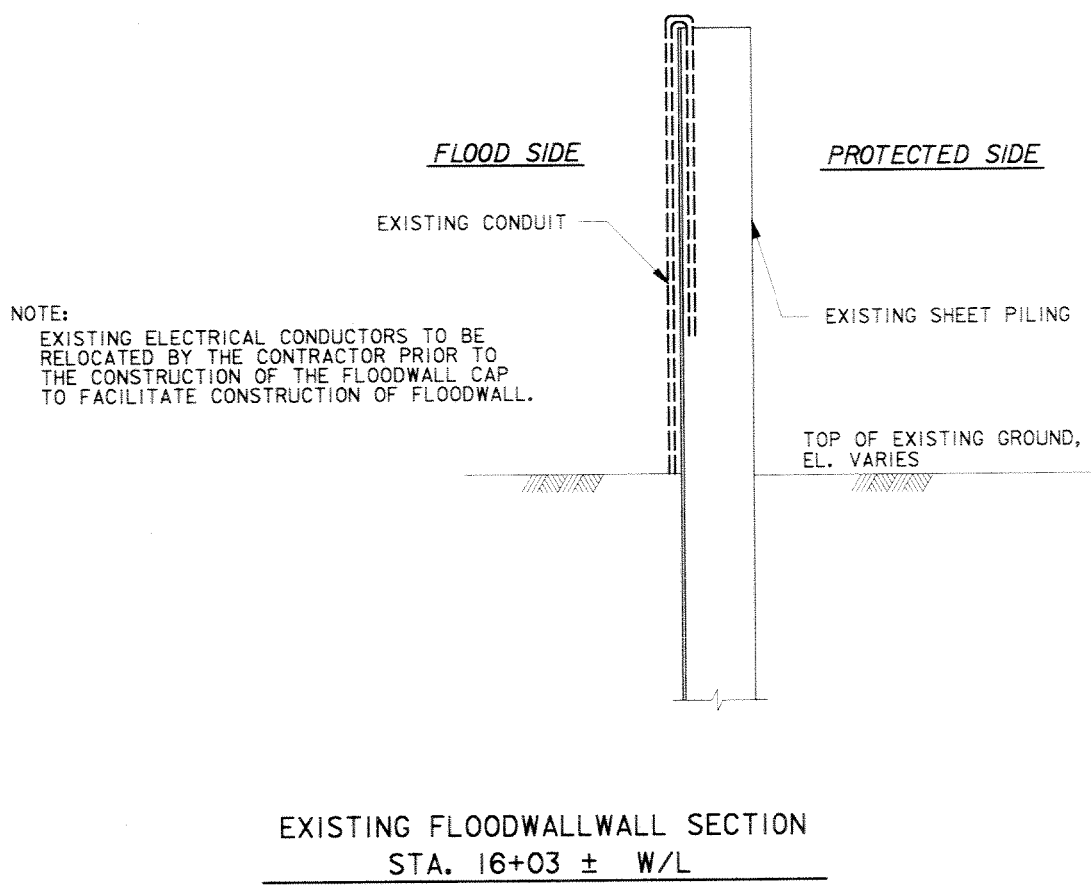


NOTE:  
CONTRACTOR SHALL REPLACE EXISTING CONDUCTORS AND CONDUIT WITH CONDUCTORS AND CONDUIT OF SAME TYPE AND SIZE. SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS AT JUNCTION BOXES.

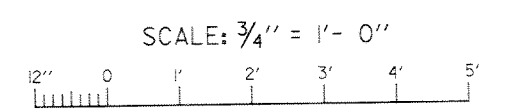
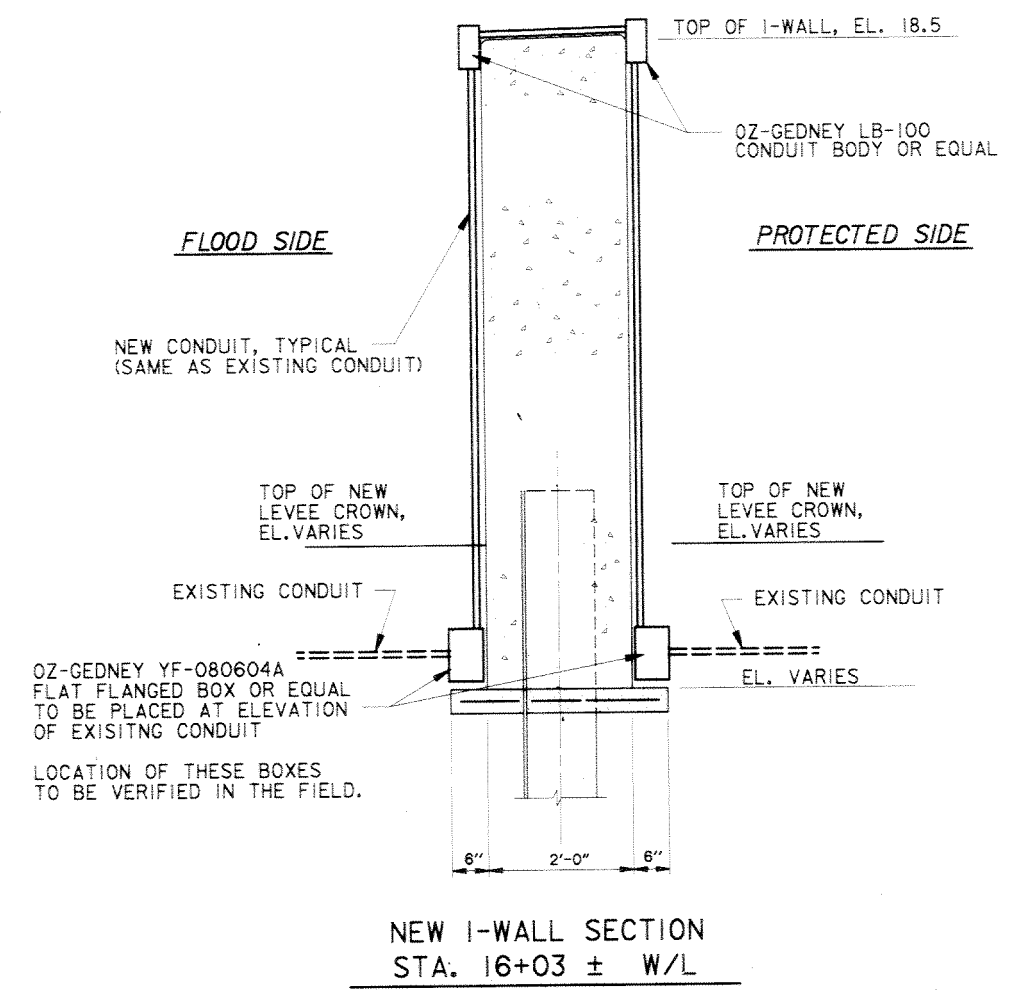


**ELECTRICAL CONDUIT DETAILS  
VICINITY OF LAKE MARINA AVE.**

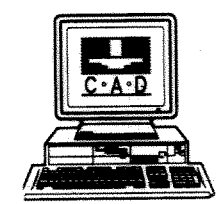
- NOTES:
1. FOR GENERAL NOTES, SEE DWG. 2.
  2. FOR PLAN, SEE DWGS. 3 AND 8.
  3. FOR PROFILE, SEE DWG. 13 AND 20.



NOTE:  
CONTRACTOR SHALL REPLACE EXISTING CONDUCTORS AND CONDUIT WITH CONDUCTORS AND CONDUIT OF SAME TYPE AND SIZE. SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS AT JUNCTION BOXES.



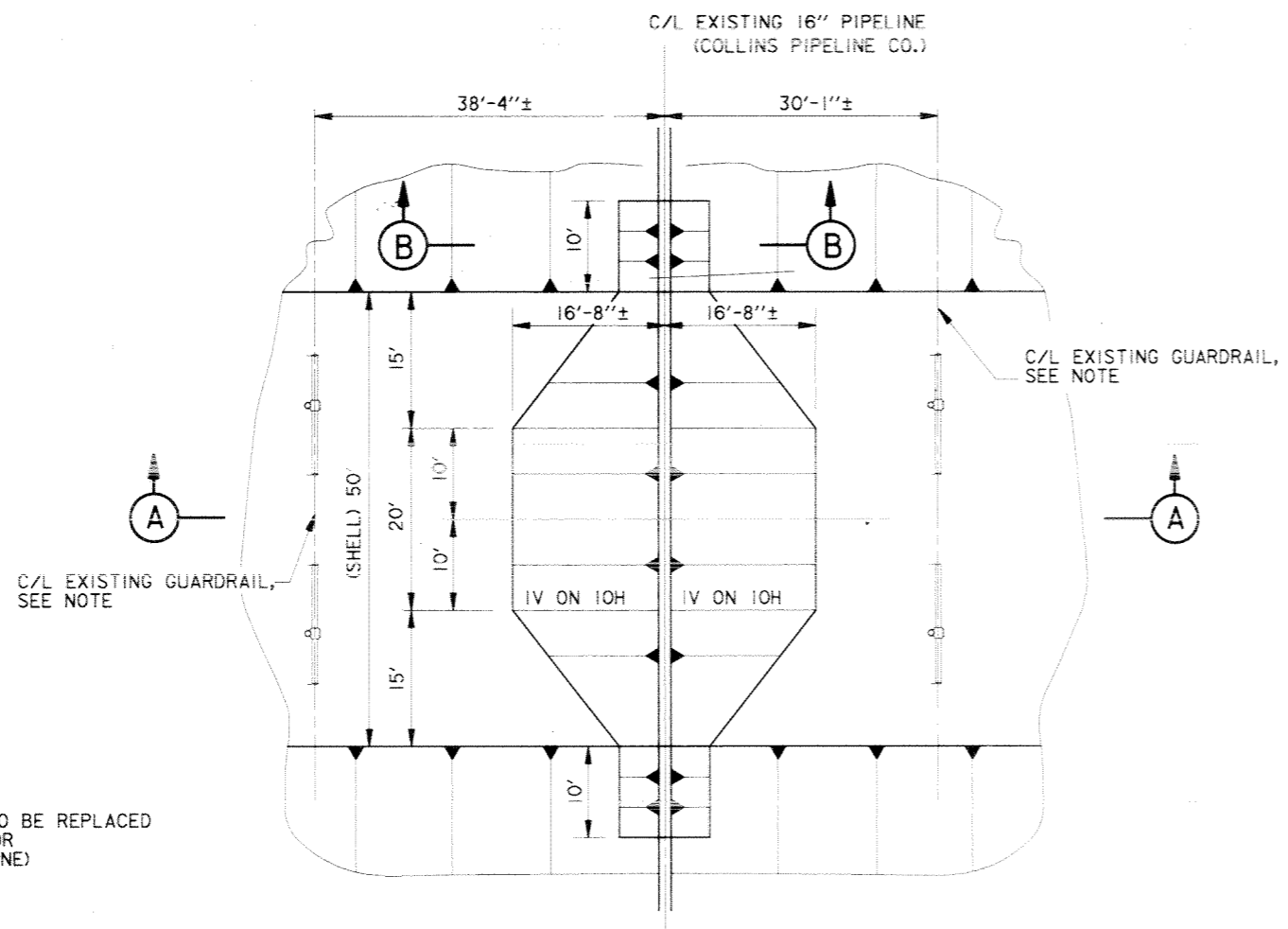
**ELECTRICAL CONDUIT DETAILS  
VICINITY OF CAMP LEROY JOHNSON**



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>ELECTRICAL CONDUIT DETAILS</b> <b>VICINITY LAKE MARINA AVE.</b> <b>AND CAMP LEROY JOHNSON</b>			
DESIGNED BY: D. BRADLEY	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: R. GRUBB	CADD FILE: 44577P46.DGN	FILE NO.	H-8-44577
CHECKED BY: D. BRADLEY	SOLICITATION NO. DACW29-97-B-0075	DWG. 46	OF 49
SUBMITTED BY: R. GRUBB	DESIGN ENGINEER		



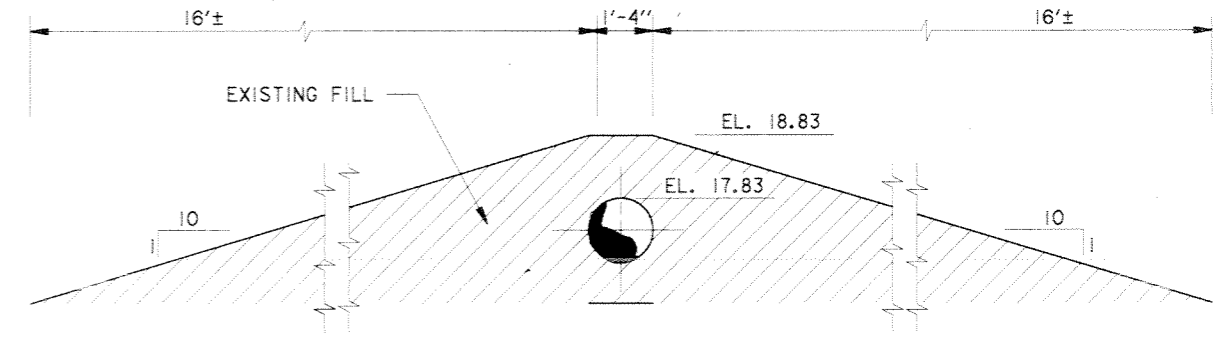
**Safety is a Part  
of Your Contract**



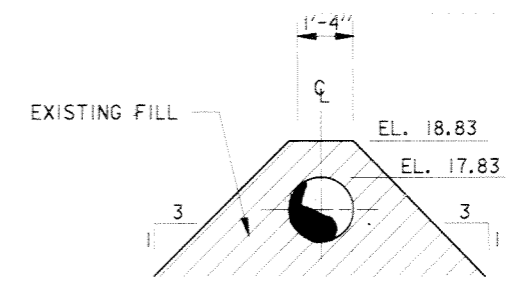
NOTE:  
EXISTING GUARDRAIL TO BE REPLACED  
IN KIND BY CONTRACTOR  
(BOTH SIDES OF PIPELINE)

**RESHAPE PIPELINE COVER**  
VICINITY STA. 394+05 W/L

**PLAN**  
N.T.S.

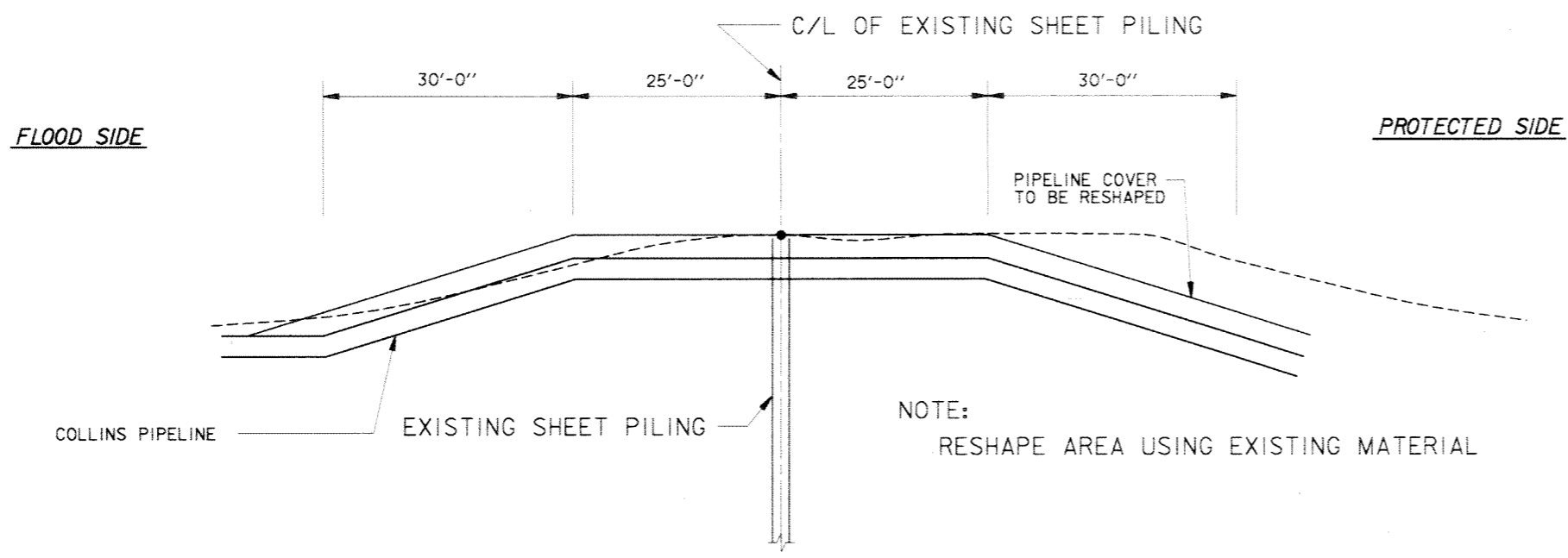


**SECTION A**  
N.T.S.



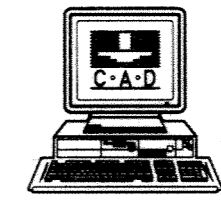
**SECTION B**  
N.T.S.


NOTES:  
1. FOR GENERAL NOTES, SEE DWG. 2.  
2. FOR TYPICAL SECTIONS, SEE DWG. 24.  
3. FOR PLAN AND PROFILES, SEE DWGS. 12 AND 24.



NOTE:  
RESHAPE AREA USING EXISTING MATERIAL

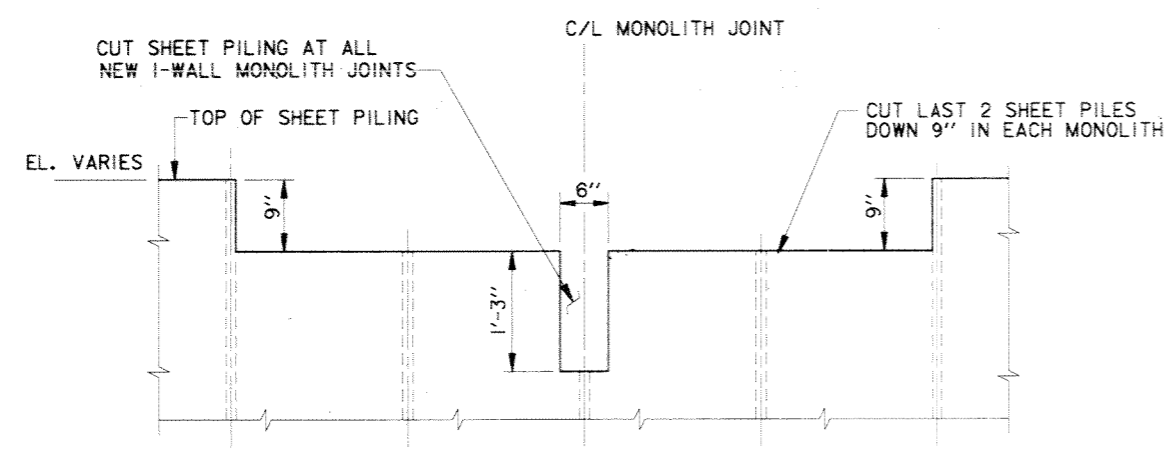
**LEVEE SECTION AT COLLINS PIPELINE**  
N.T.S.



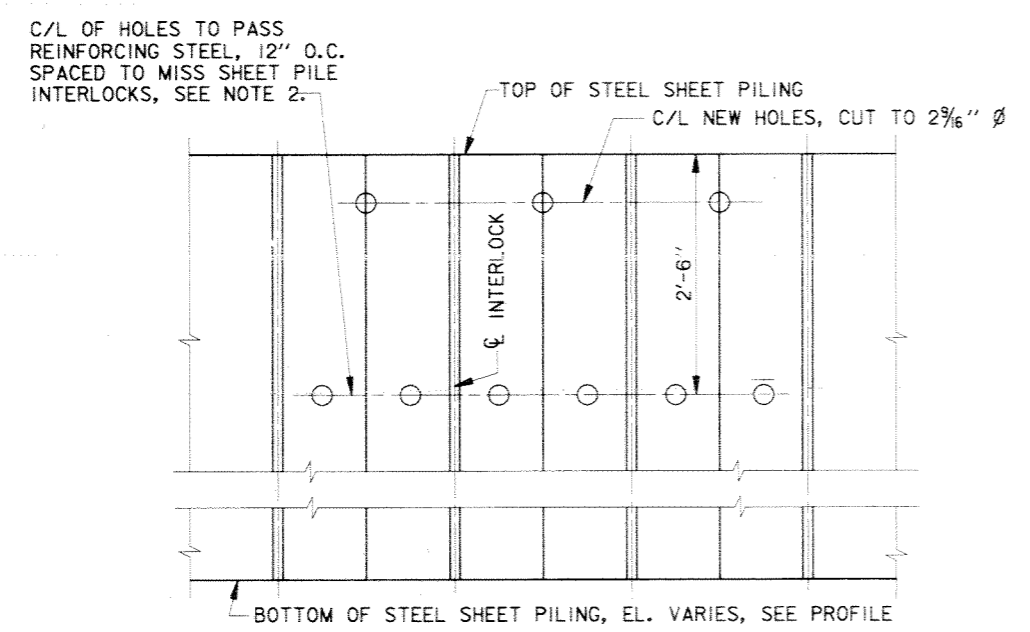
SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>PIPELINE COVER RESHAPING</b> <b>VICINITY COLLINS PIPELINE</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 120	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 44577P47.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 47	OF 49
SUBMITTED BY: R.GRUBB	DESIGN ENGINEER		



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**SHEET PILING DETAILS  
I-WALL MONOLITH JOINTS**  
SCALE: 1" = 1'-0"

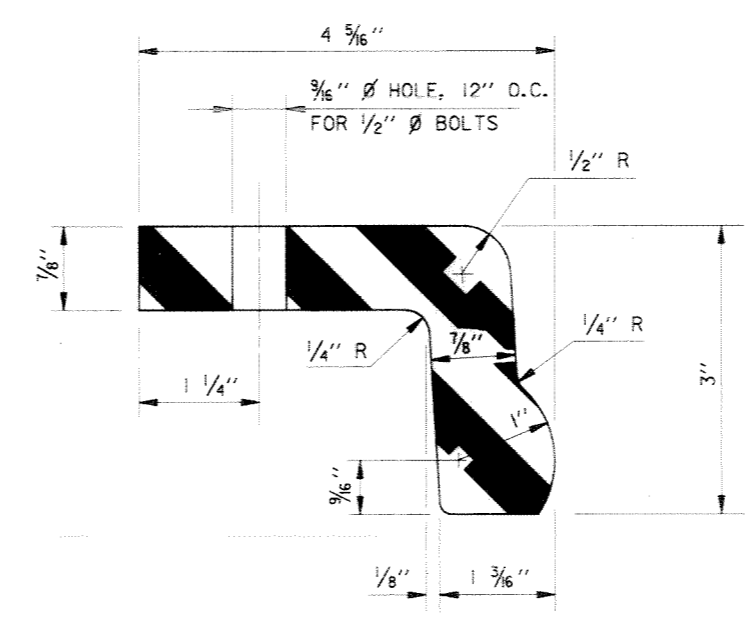


**DETAILS OF HOLES IN SHEET PILING  
ELEVATION**  
SCALE: 1" = 1'-0"

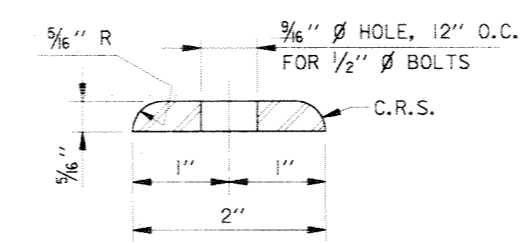
**SHEET PILE NOTES**

- HOLES CUT IN STEEL SHEET PILING FOR PASSING REINFORCING BARS SHALL NOT EXCEED 2" Ø. WHERE HOLES FALL WITHIN THE WEB OF THE STEEL SHEET PILE, THE HOLE SHALL BE SLOTTED 4" HORIZONTALLY TO ACCOMMODATE PASSING THE REINFORCING BARS.
- ANY SUBSTITUTIONS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER REPRESENTATIVE FOR APPROVAL.

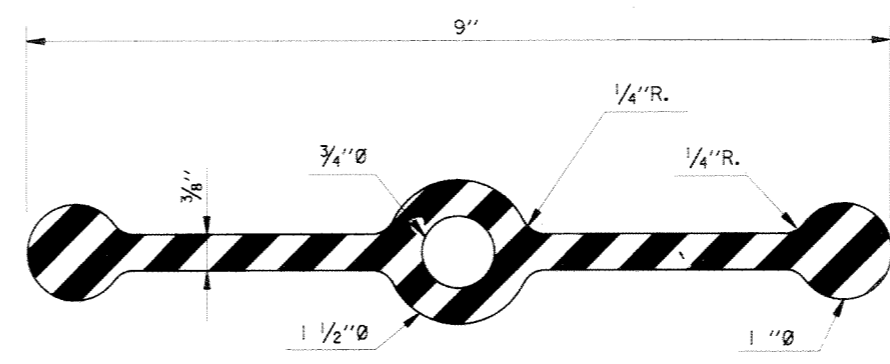
NOTE:  
1. FOR GENERAL NOTES, SEE DWG. 2.



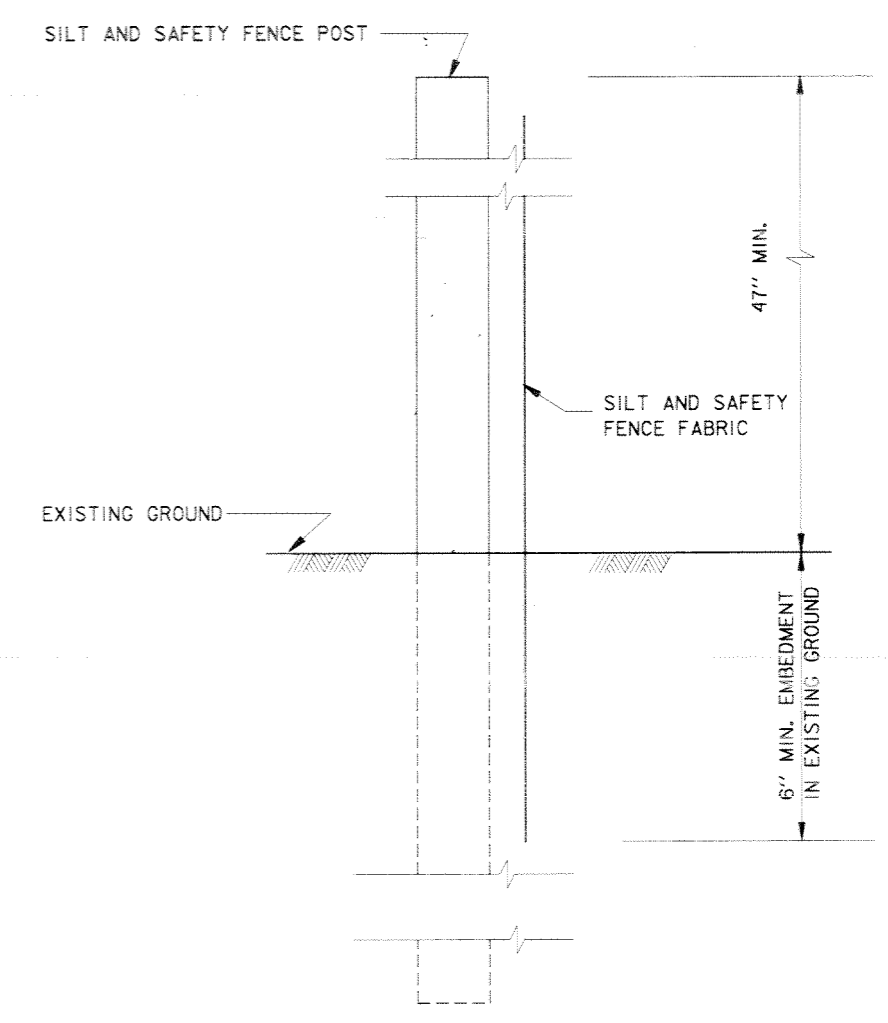
**\"/>**



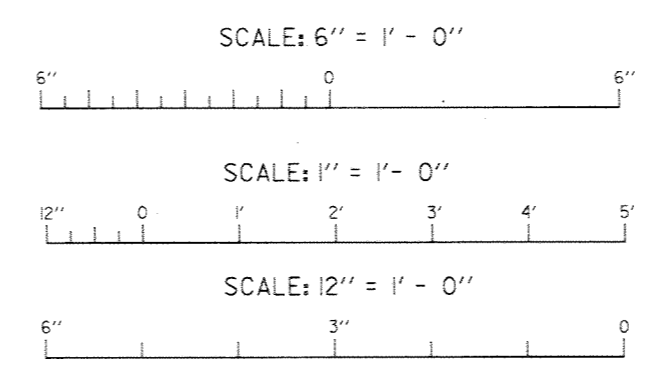
**SEAL RETAINING BAR**  
SCALE: 12" = 1'-0"




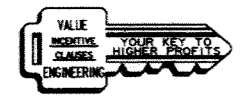
**THREE BULB WATERSTOP**  
SCALE: 12" = 1'-0"



**SILT FENCE DETAIL**  
SCALE: 6" = 1'-0"



SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
 <b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE <b>SHEET PILING AND            MISCELLANEOUS DETAILS</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L.MAGEE	CADD FILE: 4457P48.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 48 OF 49	
SUBMITTED BY: R.GRUBB DESIGN ENGINEER			





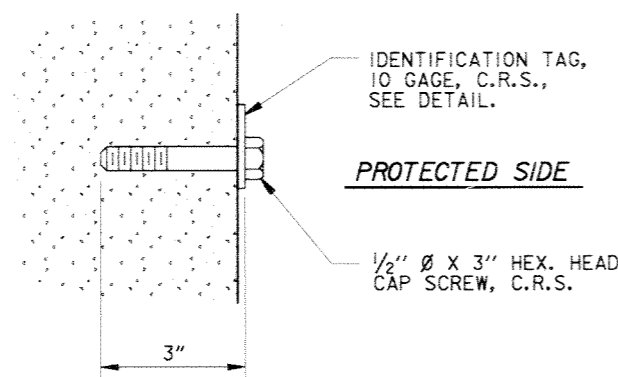
SETTLEMENT REFERENCE MARKER SCHEDULE		
S.R.M. NO.	W/L STATION * ( C/L MONOLITH JOINT )	ELEVATION **
VICINITY OF LAKE MARINA DRIVE		
401	402+09	12.0
402	401+36.41	12.0
403	401+31	12.0
404	401+29	12.0
405	400+01	12.0
VICINITY OF TOPAZ STREET GATE		
501	351+91	17.0
502	351+49.5	12.0
503	351+47.5	12.0
504	351+25	12.0
505	350+67	12.0
506	350+44.5	12.0
507	350+42.5	12.0
508	350+01	17.0
VICINITY OF BAYOU ST. JOHN(WEST)		
601	0+00 WBLA	17.0
602	0+67 WBLA	15.0
VICINITY OF BAYOU ST. JOHN(WEST)		
603	2+20 EBLA	15.75
604	2+74.70 EBLA	15.75

SETTLEMENT REFERENCE MARKER SCHEDULE		
S.R.M. NO.	W/L STATION * ( C/L MONOLITH JOINT )	ELEVATION **
VICINITY OF FRANKLIN AVENUE		
701	7+96	19.0
702	7+69	17.0
703	7+42	17.0
VICINITY OF COLLINS PIPELINE		
801	0+01	
502	0+44	15.0
503	0+46	15.0
504	2+89	15.0
505	2+93	15.0
506	3+07	15.0
507	4+21.75	15.0
508	4+23.75	21.0

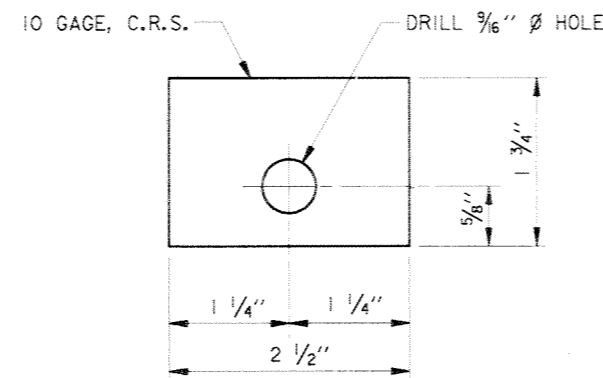
SETTLEMENT REFERENCE MARKER SCHEDULE VICINITY LINCOLN BEACH					
S.R.M. NO.	W/L STATION * ( C/L MONOLITH JOINT )	ELEVATION **	S.R.M. NO.	W/L STATION * ( C/L MONOLITH JOINT )	ELEVATION **
64	100+29	10.5	92	114+31	10.5
65	100+31	10.5	93	114+93	10.5
66	100+59	10.5	94	115+21	10.5
67	101+21	10.5	95	115+23	10.5
68	101+49	10.5			
69	101+51	10.5			
70	101+63	10.5			
71	103+05	10.5			
72	103+33	10.5			
73	104+55	10.5			
74	104+83	10.5			
75	106+05	10.5			
76	106+33	10.5			
77	106+65	10.5			
78	106+92	5.0			
79	109+94	5.0			
80	109+18	5.0			
81	109+20	10.5			
82	109+47	10.5			
83	110+69	10.5			
84	110+97	10.5			
85	112+19	10.5			
86	112+47	10.5			
87	113+69	10.5			
88	113+87	10.5			
89	113+89	10.5			
90	114+01	10.5			
91	114+03	10.5			

\* W/L STATIONS ARE APPROXIMATE. LOCATE REFERENCE BOLTS AT NEAREST W/L STATION TO THOSE SHOWN.

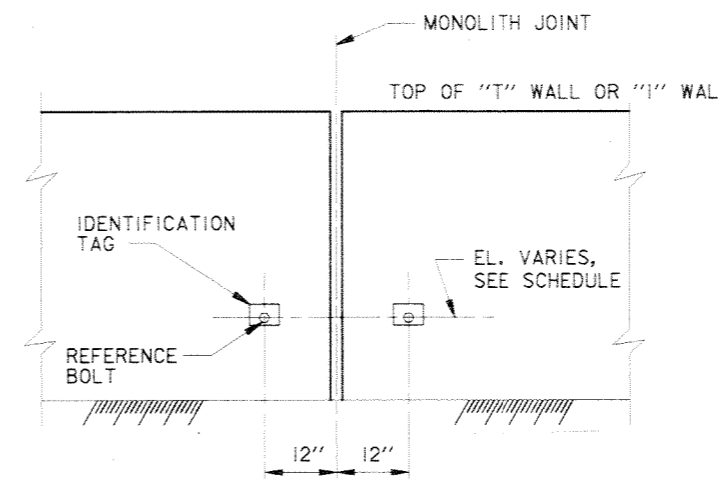
\*\* NOTE: THE CONTRACTOR SHALL TAKE FINAL ELEVATIONS OF ALL SETTLEMENT REFERENCE MARKERS AND SHALL SUBMIT THIS DATA TO THE CONTRACTING OFFICER REPRESENTATIVE (COR). THE COR WILL FURNISH THIS DATA TO ENGINEERING DIVISION, ATTENTION OF: CELMN-ED-TF.



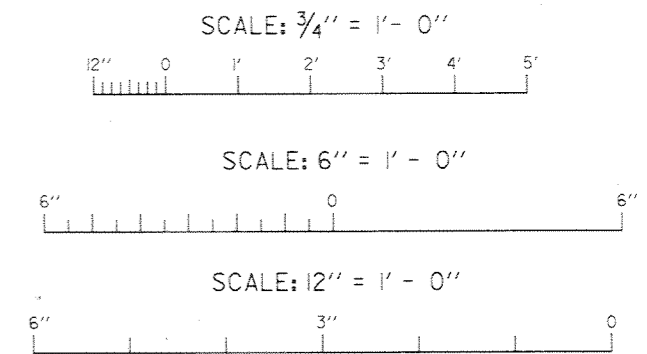
**REFERENCE BOLT**  
SCALE: 6" = 1' - 0"



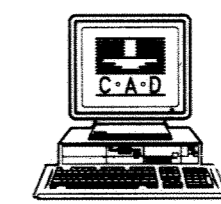
**IDENTIFICATION TAG**  
SCALE: 12" = 1' - 0"



**TYPICAL ELEVATION OF SETTLEMENT REFERENCE MARKER**  
SCALE: 3/4" = 1' - 0"



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SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>U.S. ARMY ENGINEER DISTRICT, NEW ORLEANS</b> CORPS OF ENGINEERS NEW ORLEANS, LOUISIANA			
LAKE PONTCHARTRAIN, LOUISIANA AND VICINITY NEW ORLEANS LAKEFRONT LEVEE <b>MISCELLANEOUS FLOODWALL CAPPING</b> ORLEANS PARISH LAKEFRONT - EAST & WEST OF I.H.N.C. LAKE MARINA AVE. TO COLLINS PIPELINE			
<b>SETTLEMENT REFERENCE DETAILS</b>			
DESIGNED BY: R.GRUBB	DATE: MARCH 97	PLOT SCALE: 16	PLOT DATE: DEC 97
DRAWN BY: L.WAGEE	CADD FILE: 44577P49.DGN	FILE NO. H-8-44577	
CHECKED BY: R.GRUBB	SUBMITTED BY: R.GRUBB	SOLICITATION NO. DACW29-97-B-0075	DWG. 49 OF 49