

# PORT OF PORT ARTHUR WHARF EXPANSION PROJECT

V960170

CONTRACT NO. 83

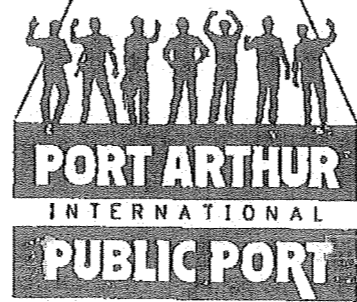
PHASE III - RETAINING WALL

BOARD OF PORT COMMISSIONERS

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RAYMOND C. JOHNSON	VICE PRESIDENT
SHIRLEY ADAMS	SECRETARY/TREASURER
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SCOT E. SHELDON	LEGAL COUNSEL
BRAMMER, BEGNAUD AND LATTIMORE	AUDITORS
COASTAL SECURITIES, INC.	FISCAL AGENTS



Port of Port Arthur Navigation District  
of Jefferson County, Texas

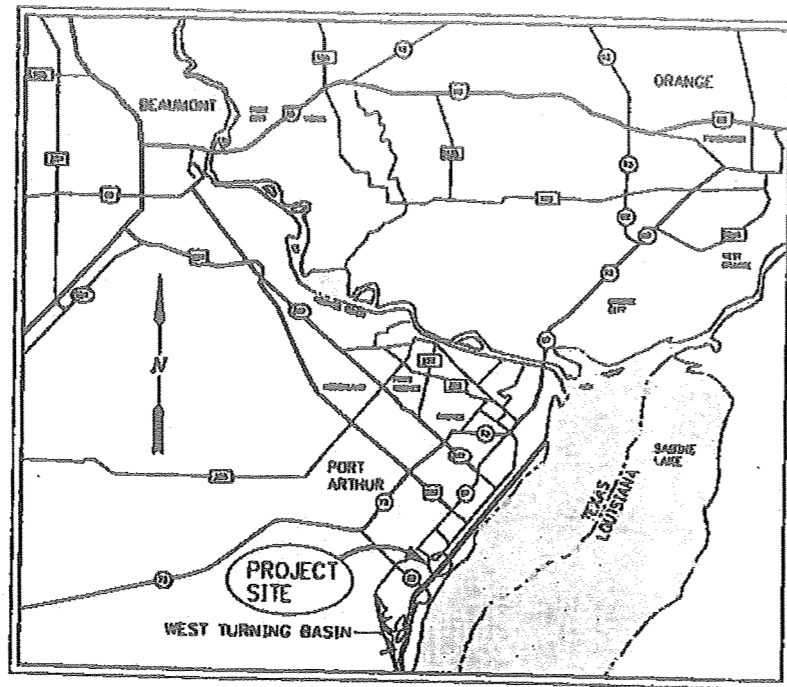
PREPARED BY

**LANIER AND ASSOCIATES**  
CONSULTING ENGINEERS, INC.  
NEW ORLEANS, LA                      HOUSTON, TX

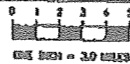
**APPROVED  
FOR  
CONSTRUCTION**

V960170  
PORT ARTHUR  
9  
DUPLICATE  
1 of 2

PORT 001175



VICINITY MAP



LEGEND	
	SECTION CUT LETTER
	SHT. NUMBER ON WHICH SECTION IS FOUND
	SHT. NUMBER FROM WHICH SECTION IS CUT
	DETAIL NUMBER
	SHT. NUMBER ON WHICH DETAIL IS FOUND
	SHT. NUMBER FROM WHICH DETAIL IS CUT
	SECTION OR DETAIL CALL-OUT
	DASH INDICATES ON SAME SH. AS CALL-OUT

PHASE II - RETAINING WALL INDEX OF DRAWINGS			
DRG. NO.	CAD. NO.	REV. NO.	DESCRIPTION OR TITLE
G1	G1		INDEX OF DRAWINGS AND MOUNTY MAP
G2	S18		EASTERN BAY FLAN
G3	S18		HYDROGRAPHIC/TOPOGRAPHIC SURVEY
G4	G5		BASEL. BOUND. PLAN AND PROFILE
G5	G4		BASEL. BOUND. B-1 THRU B-8
S1	S53		NEW BAY FLAN
S2	S55		DEMOLITION PLAN
S3	S22		PARTIAL PLAN STA. 6100 TO STA. 6400
S4	S24		PARTIAL PLAN STA. 6400 TO STA. 6700
S5	S25		PARTIAL PLAN STA. 6700 TO STA. 7000
S6	S31		CONNECTION DETAILS
S7	S21		RETAINING WALL ELEVATIONS AND SECTIONS
S8	S27		ANCHOR WALL ELEVATIONS AND SECTIONS
S9	S29		CONCRETE WALK FLANS AND SECTIONS
S10	S42		CONCRETE CAP FLANS AND SECTIONS
C1	S54		WRE FILL FLANS
C2	S17		WRE FILL CROSS SECTIONS
REFERENCE DRAWING			
S28	-	1	GULF COAST CLOSURE DETAILS

PORT 001176

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DATE	2/5/84	ISSUED FOR PHASE II CONSTRUCTION
SCALE		
DESIGN		
DRAWN		
CHECK		
APPROV.		
CONTRACT	3685	
ISSUE	1	

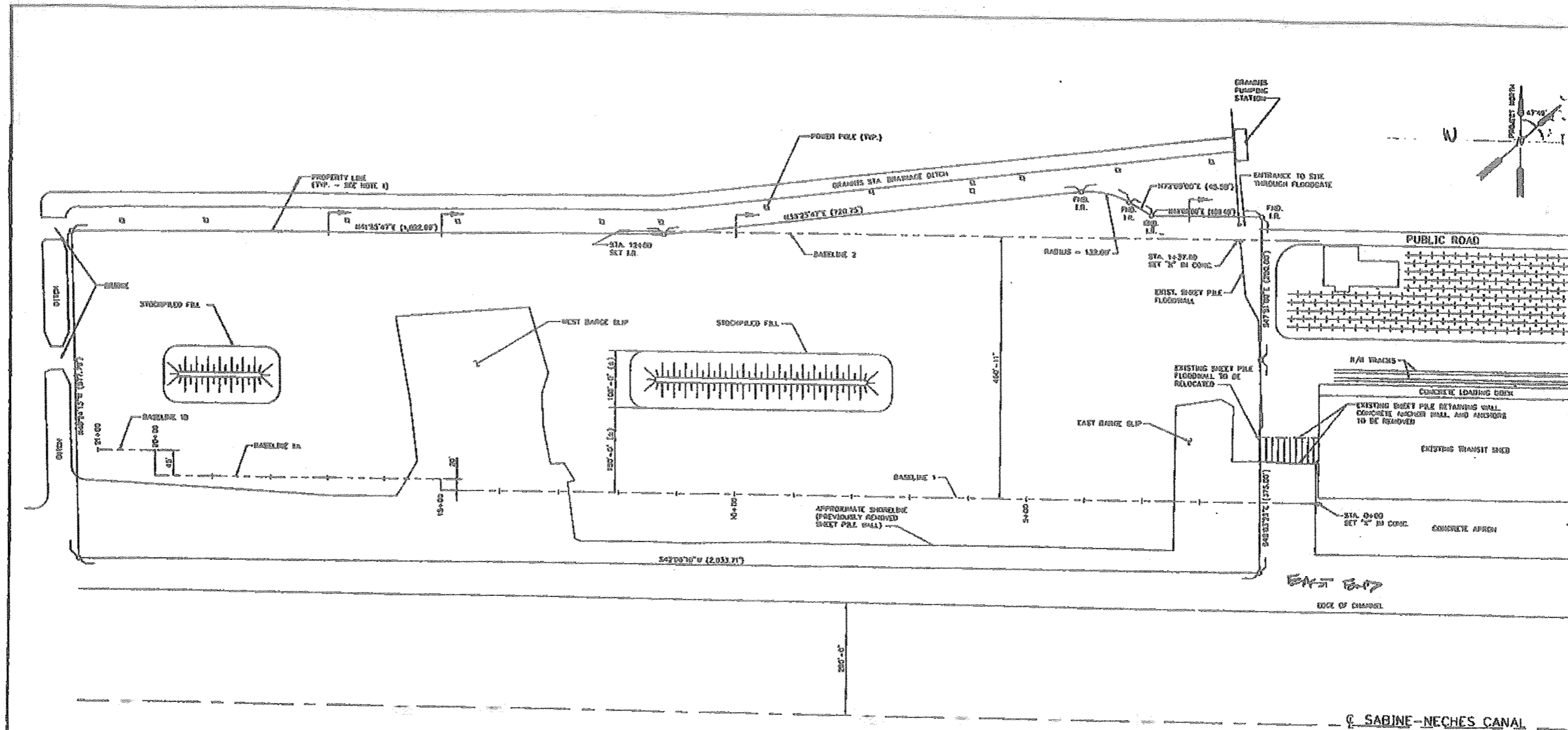
THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION. TO THE BEST OF MY KNOWLEDGE IT COMPLIES WITH ALL REQUIRE-

DATE 2/5/84  
SCALE NONE  
DESIGN CE  
DRAWN HDV  
CHECK DEL  
APPROV. SKC  
CONTRACT 3685  
ISSUE 1

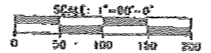
PORT OF PORT ARTHUR TEXAS  
**WHARF EXPANSION PROJECT**  
PHASE II - RETAINING WALL

SHEET NO. 3484-01  
**G1**

PORT 001177



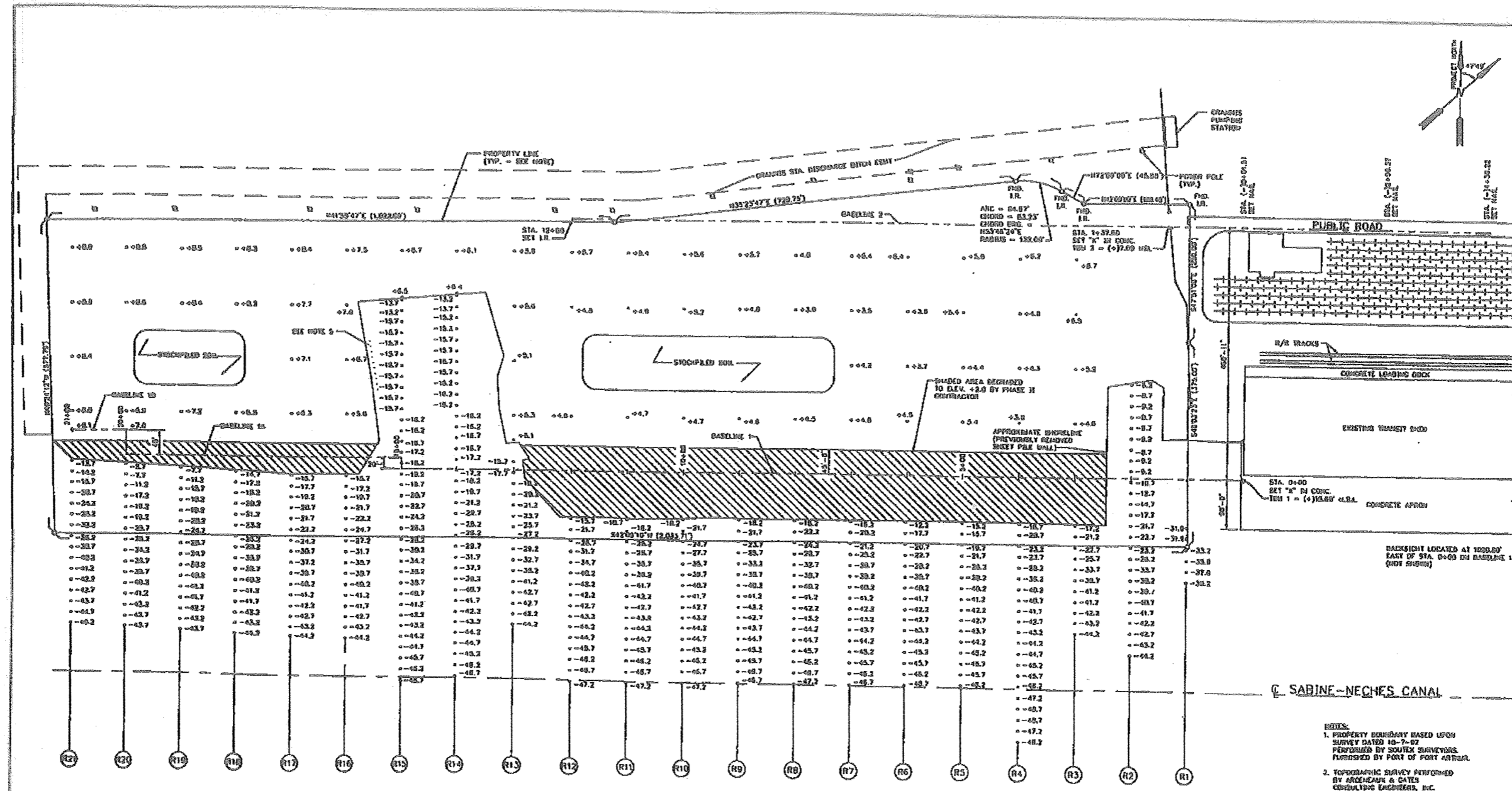
EXISTING SITE PLAN



**NOTES:**  
 1. PROPERTY BOUNDARY BASED UPON SURVEY DATED 10-7-52 PERFORMED BY SEVEN SURVEYORS FURNISHED BY PORT OF PORT ARTHUR.

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PORT OF PORT ARTHUR TEXAS		D. P. A. / G. L. ISSUED FOR CONSTRUCTION																					

PORT 001178



HYDROGRAPHIC/TOPOGRAPHIC SURVEY



- NOTES:**
1. PROPERTY BOUNDARY BASED UPON SURVEY DATED 10-7-02 PERFORMED BY SOUTHERN SURVEYORS FUNDRAISED BY PORT OF PORT ARTHUR.
  2. TOPOGRAPHIC SURVEY PERFORMED BY ARCELIAN & GATES CONSULTING ENGINEERS, INC. SITE ELEVATION PERFORMED BY PHASE I AND PHASE II CONTRACTORS. ELEVATIONS MAY VARY.
  3. HYDROGRAPHIC SURVEY PERFORMED BY LANIER & ASSOCIATES OCTOBER, 1993
  4. ALL ELEVATIONS SHOWN REFER TO MEAN SEA LEVEL (MSL.)
  5. DO NOT POSITION BARRICES ON THE TERRAIN SIDE OF THE WEST BARRICADE DUE TO THE PILING SURF BEING 3 FT. ABOVE THE BARRICADE.



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NO.	DATE	BY	FOR
1	7/2/04	CEL	ISSUED FOR CONSTRUCTION

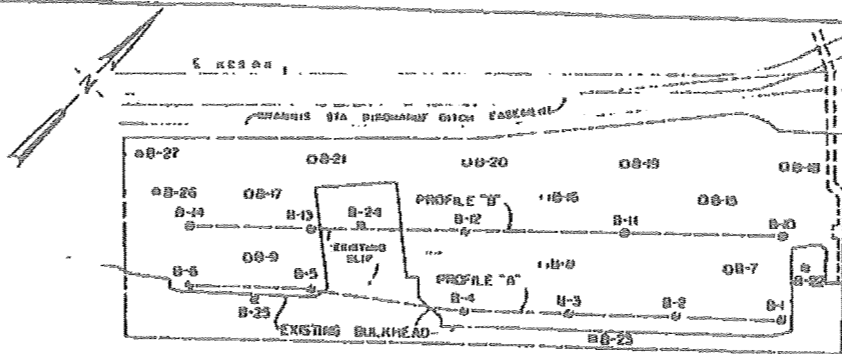
THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION, TO THE BEST OF MY KNOWLEDGE IT COMPLIES WITH ALL REQUIREMENTS.

DATE: JULY 24, 2004  
SCALE: NOTED  
DESIGN: CEL  
DRAWN: PSC  
CHECK: CEL  
APPROVED: SCK  
CONTRACT: 3484  
ISSUE: 1

PORT OF PORT ARTHUR, TEXAS  
**WHARF EXPANSION PROJECT**  
PHASE III - RETAINING WALL  
HYDROGRAPHIC/TOPOGRAPHIC SURVEY

SHEET NO. 3484-04  
**G3**

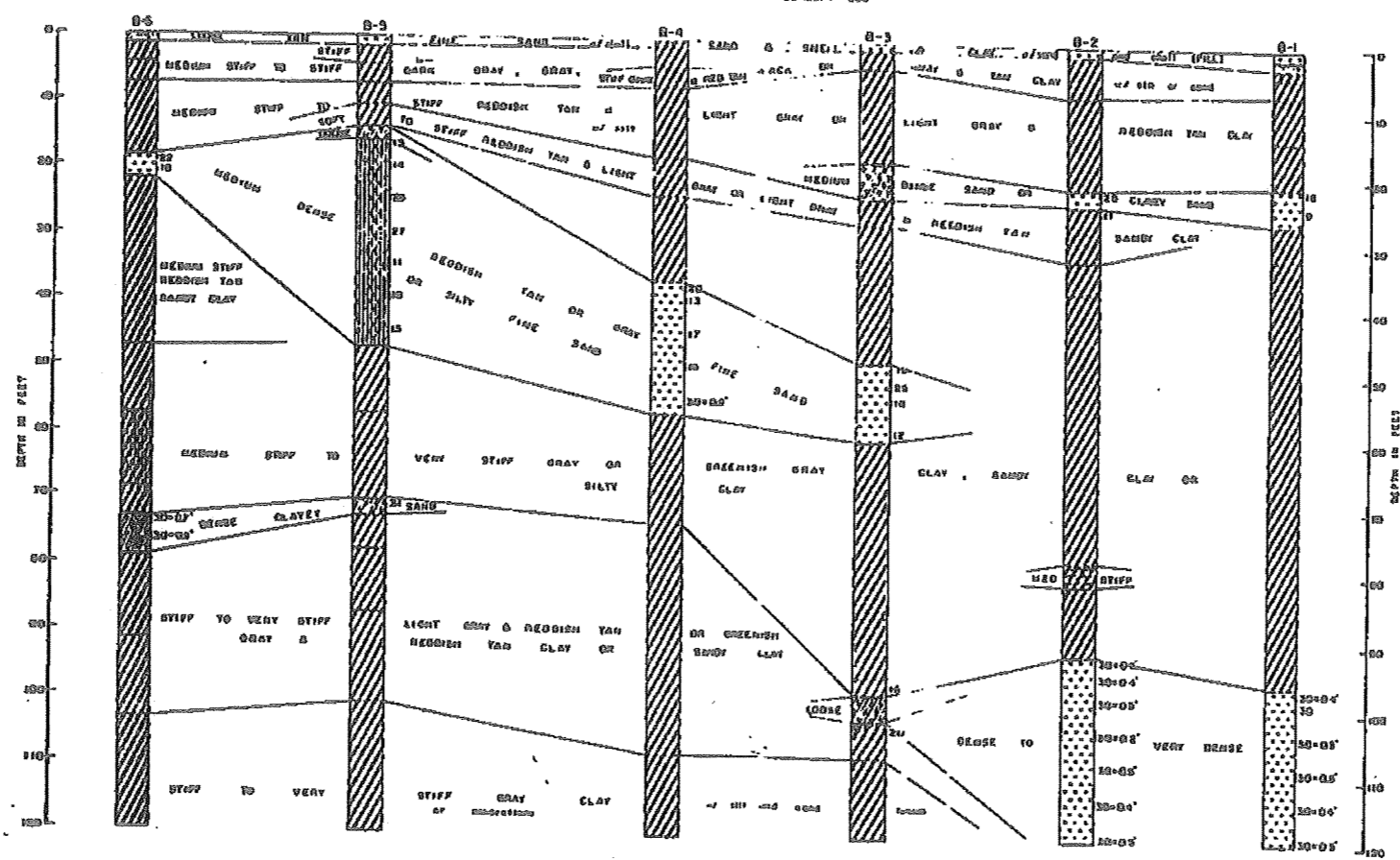
PORT 001179



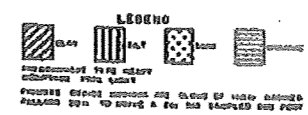
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 2. 10' MEDIUM STIFF CLAY  
 3. 10' STIFF CLAY  
 4. 10' MEDIUM STIFF CLAY  
 5. 10' STIFF CLAY  
 6. 10' MEDIUM STIFF CLAY  
 7. 10' STIFF CLAY  
 8. 10' MEDIUM STIFF CLAY  
 9. 10' STIFF CLAY  
 10. 10' MEDIUM STIFF CLAY  
 11. 10' STIFF CLAY  
 12. 10' MEDIUM STIFF CLAY  
 13. 10' STIFF CLAY  
 14. 10' MEDIUM STIFF CLAY  
 15. 10' STIFF CLAY  
 16. 10' MEDIUM STIFF CLAY  
 17. 10' STIFF CLAY  
 18. 10' MEDIUM STIFF CLAY  
 19. 10' STIFF CLAY  
 20. 10' MEDIUM STIFF CLAY  
 21. 10' STIFF CLAY  
 22. 10' MEDIUM STIFF CLAY  
 23. 10' STIFF CLAY  
 24. 10' MEDIUM STIFF CLAY  
 25. 10' STIFF CLAY  
 26. 10' MEDIUM STIFF CLAY  
 27. 10' STIFF CLAY

SABINE-NECHES SHIP CHANNEL

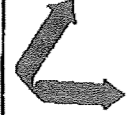
BORING LOCATIONS  
SCALE: 1" = 300'



SUBSOIL PROFILE "A"  
SCALE: 1" = 300'



GENERAL INVESTIGATION  
 WHARF EXPANSION  
 SABINE-NECHES SHIP CHANNEL  
 SOIL ANALYSIS, TEXAS  
 BORING LOCATIONS AND SUBSOIL PROFILE


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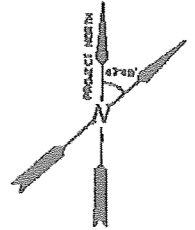
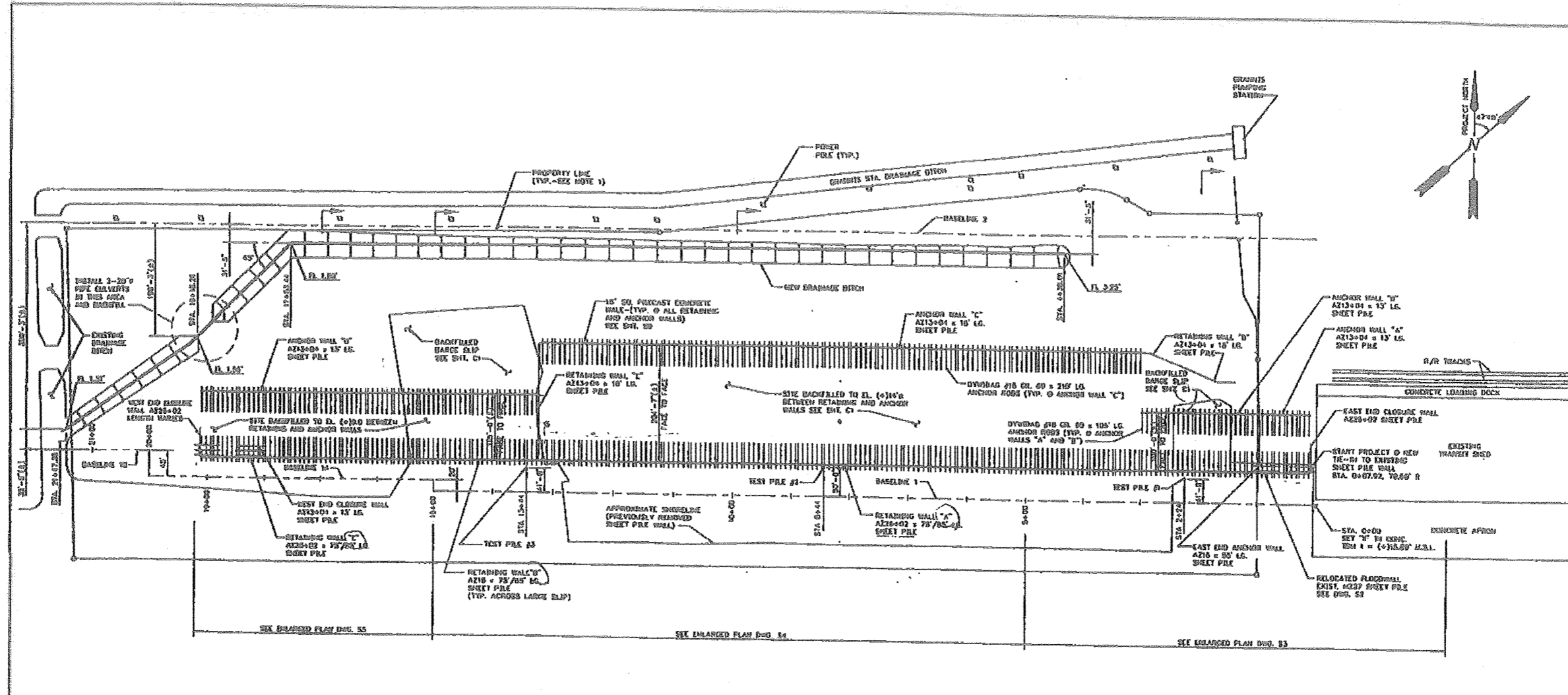
THIS PLAN HAS BEEN  
 PREPARED UNDER MY  
 CLOSE PERSONAL SUPERVISION TO THE  
 BEST OF MY KNOWLEDGE IT COMPLETES  
 WITH ALL REQUIREMENTS

DATE: JULY 31, 1964  
 SCALE: NOTED  
 DESIGN: G.C.  
 DRAWN: G.C.  
 CHECK: G.C.  
 APPROVED: G.C.  
 CONTRACT: 1084

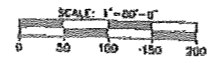
PORT OF PORT ARTHUR  
 TEXAS  
**WHARF EXPANSION PROJECT**  
 PHASE B - RETAINING WALL

SHEET NO.  
 3401-04  
**G4**





NEW SITE PLAN



C. SABINE-NECHES CANAL

- NOTES:**
1. PROPERTY BOUNDARY BASED UPON SURVEY DATED 10-7-02. PERFORMED BY ROUTE SURVEYORS FURNISHED BY PORT OF PORT ARTHUR.
  2. REFER TO DWG. OR FOR DEMOLITION IN AREA WEST OF EXISTING TRANSIT SHED.
  3. ALL SHEET PILE MATERIALS TO BE FURNISHED BY OWNER. OFFLOADING AND STOCKPILING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL SHEET PILE WALLS TO BE SHIPPED BY BARGE.
  4. ALL ANCHOR RODS AND HARDWARE TO BE FURNISHED BY OWNER. OFFLOADING AND STOCKPILING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL ANCHOR RODS EMB. TO BE SHIPPED BY TRUCK.
  5. ALL LIGHTWEIGHT AGGREGATE TO BE FURNISHED BY OWNER. EXHAUSTING SUPPLIER'S CATALOG WITH THE AGGREGATE SUPPLIER. OFFLOADING AND STOCKPILING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL LIGHTWEIGHT AGGREGATE WILL BE SHIPPED BY BARGE. ALL OTHER FILL MATERIALS TO BE FURNISHED BY CONTRACTOR.
  6. ALL DREDGING AND GRADING ON CHANNEL SIDE OF RETAINING WALL TO BE DONE BY OTHERS FOLLOWING COMPLETION OF THIS CONTRACT. DREDGING MAY BEGIN PRIOR TO COMPLETION OF THE PHASE III CONTRACT.

PORT 001181

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DATE	AUG 04
SCALE	NOTED
DESIGN	WJD
DRAWN	ESC
CHECK	DEL
APPROV	SCZ
CONTRACT	3484
ISSUE	1

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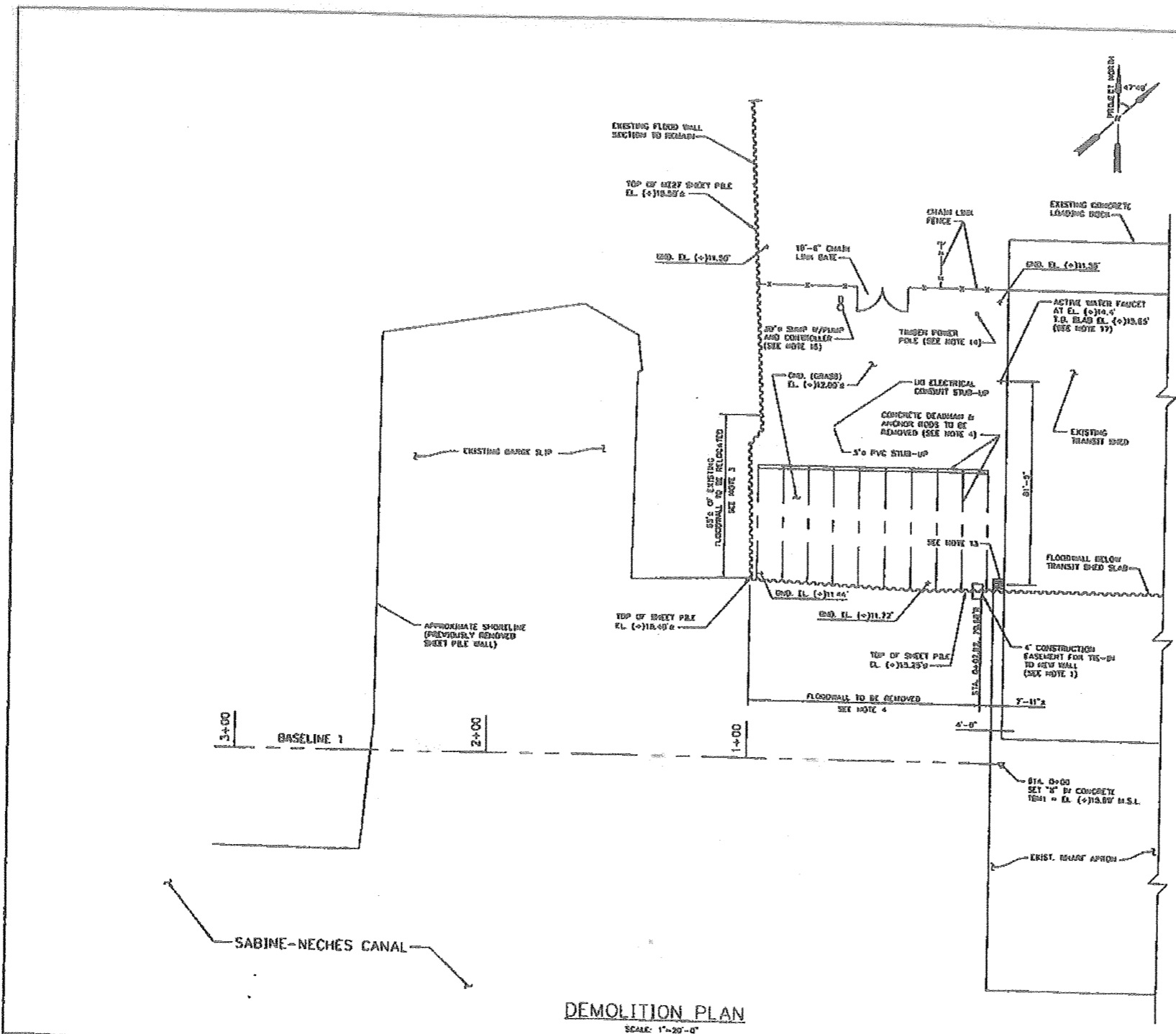
DATE AUG 04  
SCALE NOTED  
DESIGN WJD  
DRAWN ESC  
CHECK DEL  
APPROV SCZ  
CONTRACT 3484  
ISSUE 1

PORT OF PORT ARTHUR  
TEXAS

WHARF EXPANSION PROJECT  
PHASE II - RETAINING WALL

SHEET NO. 3484-04  
**S1**

PORT 001182



**DEMOLITION AND CONSTRUCTION SEQUENCE:**

1. REMOVE SHEET PILE FROM EXISTING FLOODWALL BETWEEN STA. 0+07.00 AND STA. 0+12.00(0) TO PROVIDE A 4'-0" CONSTRUCTION EASEMENT. SALVAGE ONE SHEET TO FABRICATE CONNECTION FOR NEW TIS-01 (SEE DETAIL 7, SHEET 05).
2. INSTALL SHEET PILE FOR THE EAST END ANCHOR WALL AND RETAINING WALL "A" BEGINNING AT THE NEW TIS-01 UP TO STA. 0+28.00 (SHORT OF THE NEW "TIS" CONNECTION TO THE LAST OLD ANCHOR WALL).
3. REMOVE THE SHEET PILE FOR THE FLOODWALL TO BE RELOCATED AND INSTALL IN THE RELOCATED POSITION.
4. DEMOLISH THE REMAINING FLOODWALL BETWEEN THE 4' EASEMENT AND THE FLOODWALL TO BE RELOCATED. REMOVE AND PROPERLY DISPOSE OF ALL ANCHOR RODS AND THE CONCRETE HEADWALL.
5. INSTALL THE EAST END ANCHOR WALL AND THE TIS-01 TO THE RELOCATED FLOODWALL (REFER TO SECTION 1.0 "SCOPE OF WORK" BY THE SPECIFICATIONS FOR MORE INFORMATION). CONTINUE INSTALLING RETAINING WALL "A" UP TO STA. 1+20.00.
6. INSTALL ANCHOR WALL "A" AND ANCHOR WALL "B" UP TO STA. 1+28.00. BACKFILL EXISTING RETAINING WALL "A" ACCORDING TO SHEET C1 UP TO EL. (+)12.00.
7. INSTALL ALL ANCHOR RODS AND WALE FOR RETAINING WALL "A" UP TO STA. 1+28(0) (RELOCATE ANCHOR WALL "A" AND PART OF "B") AND FOR THE EAST END ANCHOR WALL ACCORDING TO SPECIFICATIONS.
8. BACKFILL REMAINDER OF AREA BETWEEN THE EXISTING TRANSIT SHED, THE RELOCATED FLOODWALL, RETAINING WALL "A" AND ANCHOR WALL "A".
9. REMAINDER OF RETAINING WALL CONSTRUCTION SEQUENCE TO BE DETERMINED BY CONTRACTOR.

**DEMOLITION NOTES:**

10. ITEMS OUTLINED IN THE DEMOLITION AND CONSTRUCTION SEQUENCE ARE INTENDED TO MINIMIZE THE LENGTH OF TIME THAT THE FLOODWALL IS OPEN. THE SEQUENCE MAY BE ADJUSTED BY LEAD OF AN ORDER WHICH WILL REDUCE THIS LENGTH OF TIME.
11. THE CONTRACTOR SHALL PROVIDE SANDBAGS AS REQUIRED AT ALL FLOODWALL OPENINGS CREATED DURING THE DEMOLITION PHASE OF THE CONTRACT THAT ARE OPEN FOR AN EXTENDED PERIOD OF TIME. THE CONTRACTOR SHALL AT ALL TIMES DURING THE DEMOLITION MAINTAIN AN ADEQUATE NUMBER OF SANDBAGS TO RESTORE THE FLOODWALL TO FULL CLOSURE. DEPLOYMENT OF SANDBAGS SHALL BE AT THE DISCRETION OF THE OWNER'S ENGINEER OR AS ADVISED BY THE U.S.C.O. TO PREPARE FOR FLOOD CONDITIONS SHOULD A REVERSE STORM ENTER THE GULF.
12. THE ITEMS OUTLINED IN THE DEMOLITION NOTES ARE NOT ADDRESSED IN THE DEMOLITION AND CONSTRUCTION SEQUENCE AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S DISCRETION.
13. REMOVE AND DISPOSE OF CONCRETE SLABS, ELECTRICAL CONDUIT ABOVE GRADE AND UNDERGROUND, AND ELECTRICAL EQUIPMENT.
14. REMOVE AND DISPOSE OF TRUSS POWER POLE, CUT WIRE AND ANCHOR, CONDUITS AND ELECTRICAL EQUIPMENT.
15. REMOVE ALL UNDERGROUND ELECTRICAL CONDUIT AND SEWERAGE PIPING FOUND SOUTH OF CHAIN LINK FENCE, CONCRETE (SIAL, CU) AND CAP ANY UNDERGROUND CONDUIT EXTENDING NORTH OF CHAIN LINK FENCE.
16. REMOVE SNIP PUMP, PUMP, VENT, AND CONTROLLER AND DISPOSE OF PROPERLY. REMOVE EXISTING SEWERAGE LINE TO EDGE OF GRASSY AREA, CAP AND ABANDON.
17. REMOVE EXISTING HOSE DIS. EXPOSE EXISTING PIPE AND INSTALL NEW HOSE DIS 2'-3" ABOVE EXISTING TOP OF SLAB.
18. REMOVE AND DISPOSE OF 6-10 SMALL 6" TO 12" DIAM CONCRETE SLABS AND ANY CONC. CONCRETE RUBBLE OR DEBRIS.
19. TERMINAL SUPERVISOR/INSPECTOR SHOULD BE NOTIFIED 72 HOURS PRIOR TO BEGINNING WORK INSIDE THE FENCED AREA.

**DEMOLITION PLAN**  
SCALE: 1"=20'-0"

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DATE	BY	ISSUED FOR CONSTRUCTION
01/25/24	DEL	

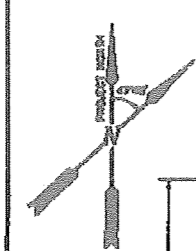
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DATE	AUG 04
SCALE	AS SHOWN
DESIGN	WJD
DRAWN	JDV
CHECK	JEL
APPROVED	SCM
CONTRACT	3484
ISSUE	1

PORT OF PORT ARTHUR TEXAS  
**WHARF EXPANSION PROJECT**  
PHASE II - RETAINING WALL

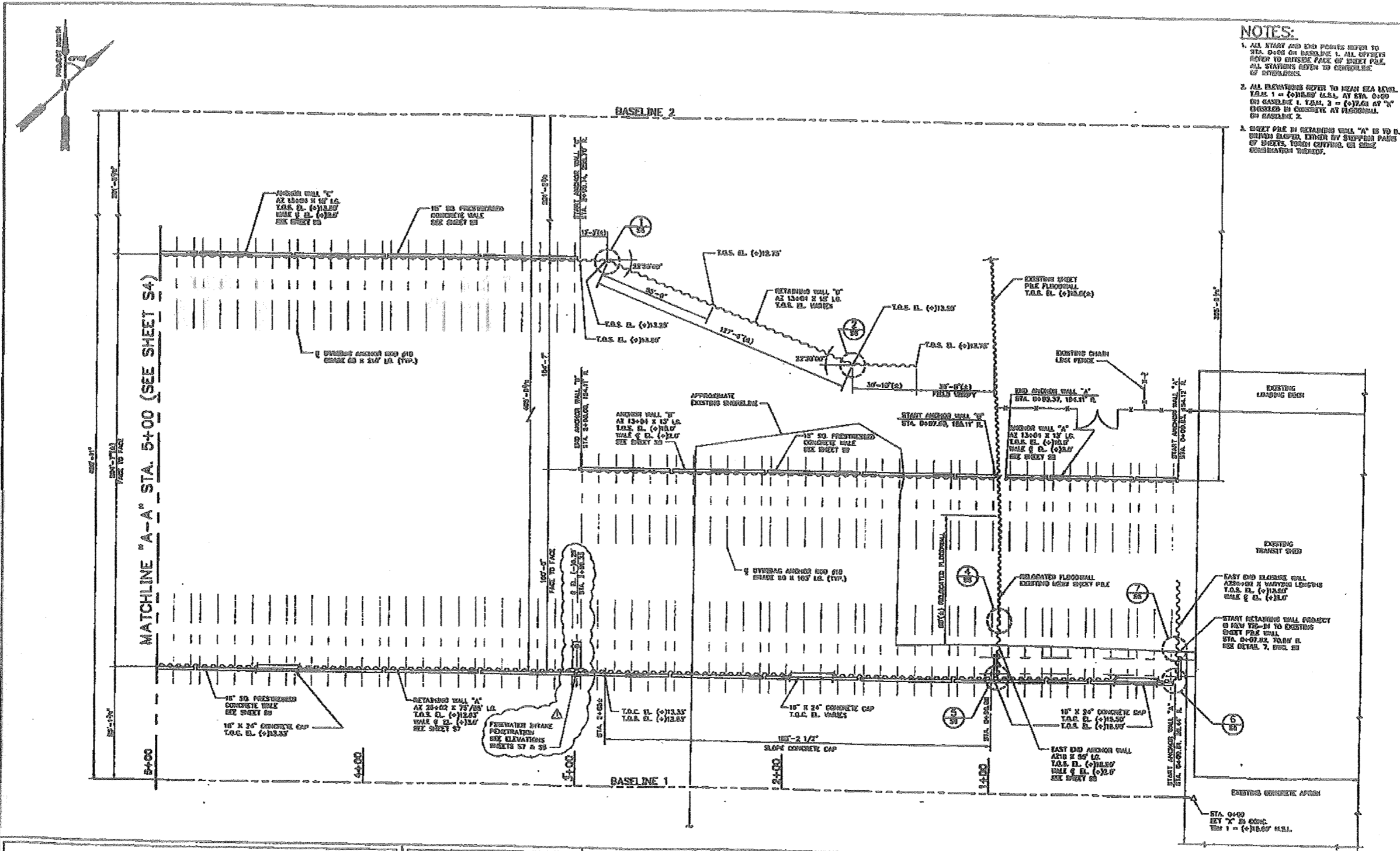
SHEET NO. 3484-04  
**S2**





**NOTES:**

1. ALL START AND END POINTS REFER TO T.O.S. 0+00 ON BASELINE 1. ALL OFFSETS REFER TO OPPOSITE FACE OF SHEET PILE. ALL STATIONS REFER TO CENTERLINE OF STRUCTURE.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL. TABLE 1 = (0)12.75' U.S.L. AT STA. 0+00 ON BASELINE 1. TABLE 2 = (0)12.75' U.S.L. ELEVATED IN CONCRETE AT FLOORLINE ON BASELINE 2.
3. SHEET PILE IN RETAINING WALL "A" IS TO BE BUNDLED TOGETHER, EITHER BY STEPPED PAIRS OF SHEETS, TURN CUTTING OR END CONNECTION METHODS.



PORT 001183

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1	3/2/84	DESIGN	ADDED FRESHWATER PENETRATION
2	3/8/84	REV.	ISSUED FOR CONSTRUCTION

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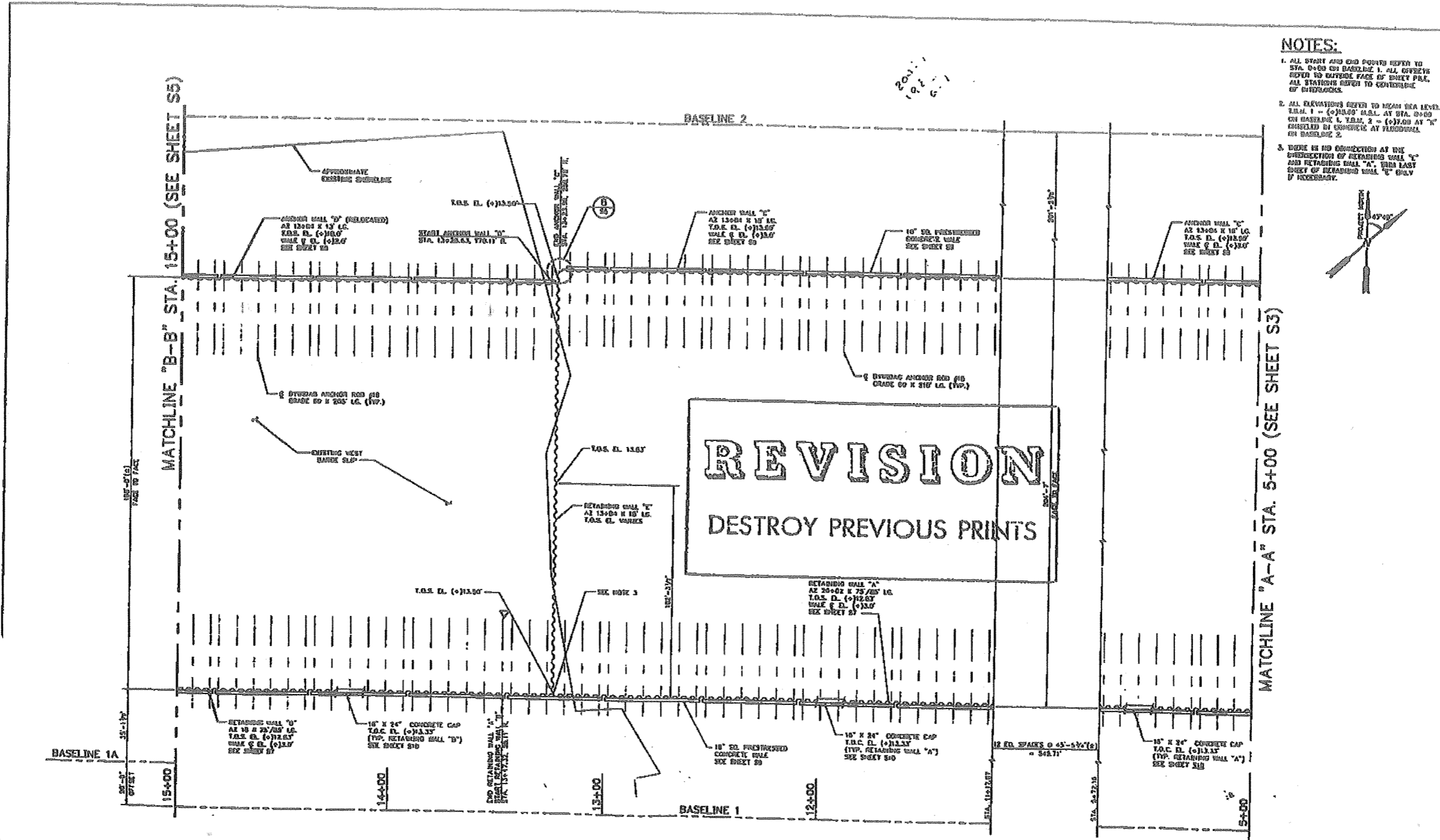
DATE: 3/2/84  
SCALE: 1"=20'-0"  
DESIGN: JML  
DRAWN: ESC  
CHECK: GEL  
APPROVED: SKC  
CONTRACT: 3483  
ISSUE: 2

PORT OF PORT ARTHUR

WHARF EXPANSION PROJECT  
PHASE III - RETAINING WALL

SHEET NO. 3483-04  
**S3**

PORT 001184



- NOTES:**
1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL. T.O.S. 1 = (+)13.50' E.S.L. AT STA. 0+00 ON BASELINE 1. T.O.S. 2 = (+)13.50' AT "X" CHAINED BY SURVEY AT VARIOUS POINTS ON BASELINE 2.
  2. THERE IS NO CONNECTION AT THE CONNECTION OF RETAINING WALL "C" AND RETAINING WALL "A". THIS LAST SHEET OF RETAINING WALL "C" ONLY IF NECESSARY.

**REVISION**  
DESTROY PREVIOUS PRINTS

MAY 22 1995

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1	3/22/95	CEL	REBAR ANCHOR WALL "O"
0	5/17/95	CEL	ISSUED FOR CONSTRUCTION

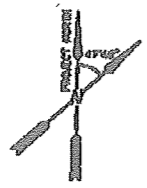
THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION, TO THE BEST OF MY KNOWLEDGE IT COMPLETES WITH ALL NECESSARY-

DATE AUG. 94  
SCALE 1"=20'-0"  
DESIGN WJL  
DRAWN PSC  
CHECK GEL  
APPROV. SKL  
CONTRACT 3404  
ISSUE

PORT OF PORT ARTHUR  
TEXAS  
WHARF EXPANSION PROJECT  
PHASE II - RETAINING WALL

SHEET NO. 3404-04  
**S4**

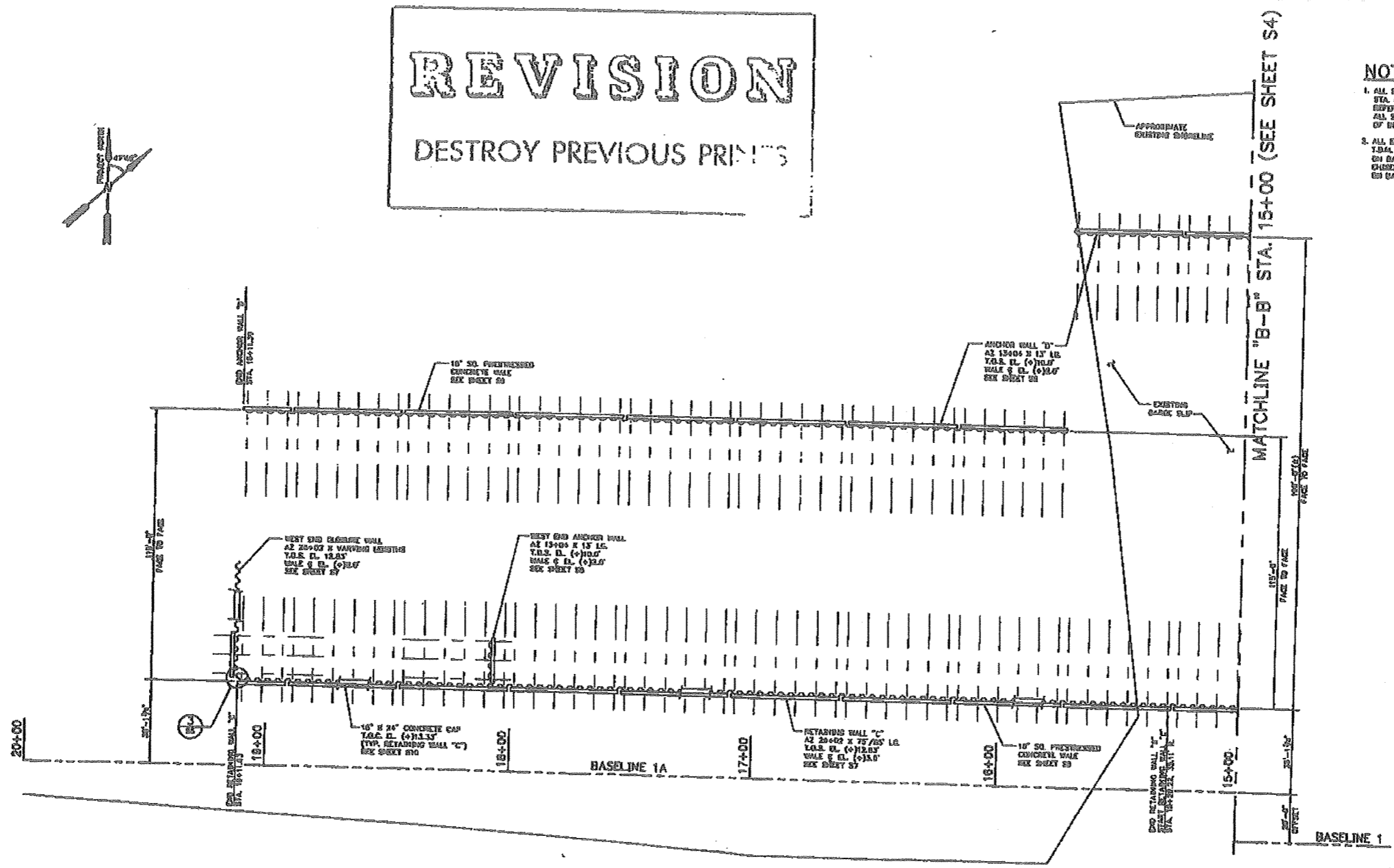
**REVISION**  
DESTROY PREVIOUS PRINTS



**NOTES:**

1. ALL START AND END POINTS REFER TO STA. 0+00 ON BASELINE 1. ALL OFFSETS REFER TO OUTSIDE FACE OF SHEET PILE. ALL STATIONS REFER TO CENTERLINE OF STRUCTURE.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL. T.D.M. 1 = (+10.65' M.S.L. AT STA. 0+00 ON BASELINE 1. T.D.M. 2 = (+12.00' M.S.L. AT STA. 0+00 ON BASELINE 2.

PORT 001185



MAY 22 1995

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INCORPORATED  
NEW ORLEANS, LA      HOUSTON, TX

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1	5/22/95	DL	RELOCATE PART OF ANCHOR WALL "D"
2	5/22/95	DL	ISSUED FOR CONSTRUCTION

THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION, TO THE BEST OF MY KNOWLEDGE IT COMPLIES WITH ALL REQUIREMENTS OF THE CONTRACT.

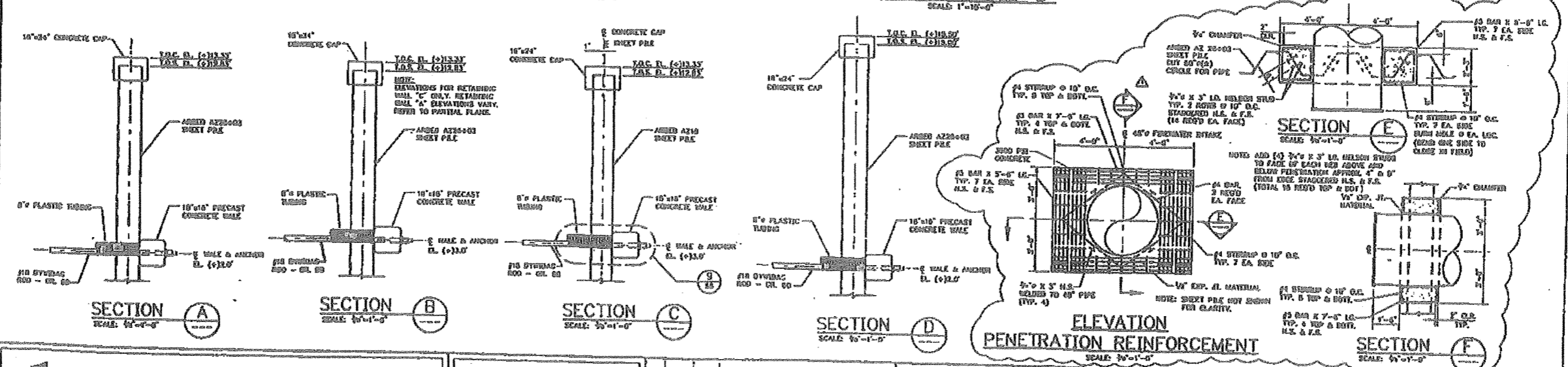
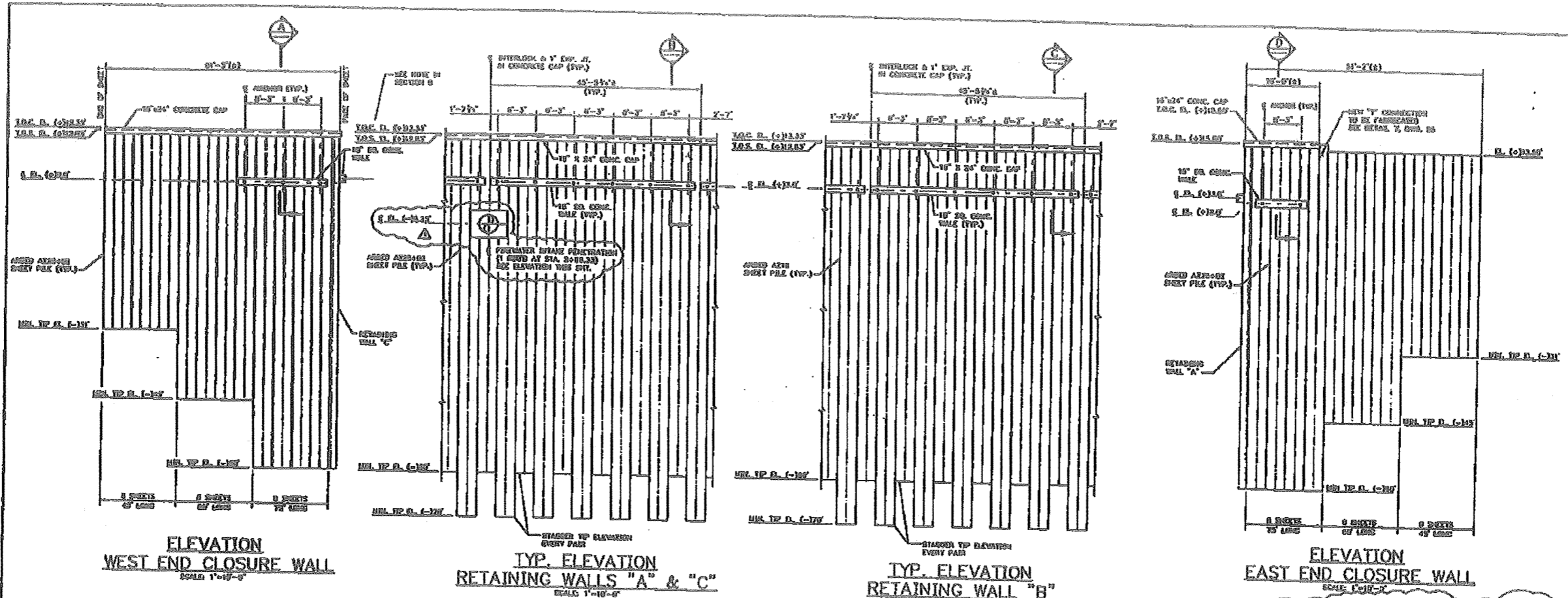
DATE: AUG. 94  
SCALE: 1"=20'-0"  
DESIGN: JUT  
DRAWN: ESC  
CHECK: GEL  
APPROV: SKL  
CONTRACT: 3484-04

PORT OF PORT ARTHUR  
TEXAS

**WHARF EXPANSION PROJECT**  
PHASE II - RETAINING WALL

SHEET NO.  
3484-04  
**S5**

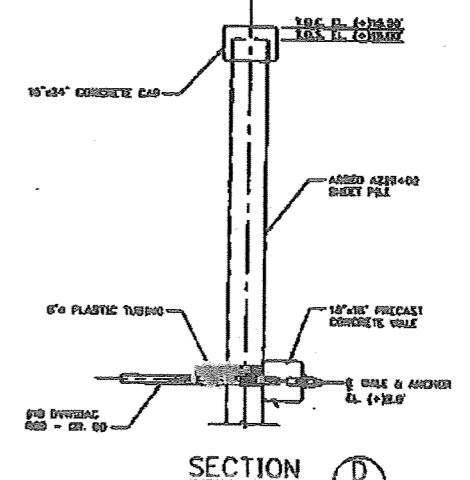
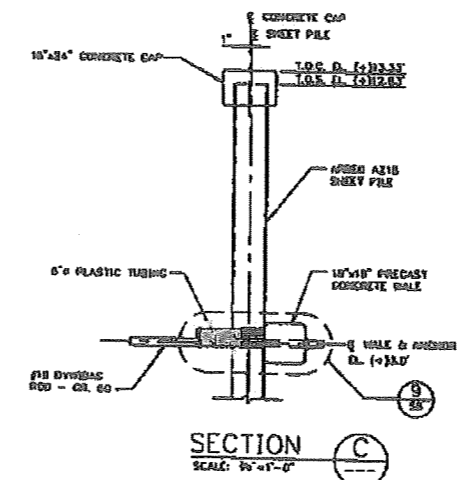
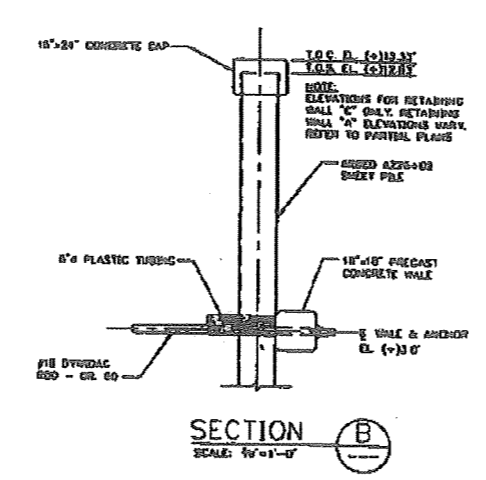
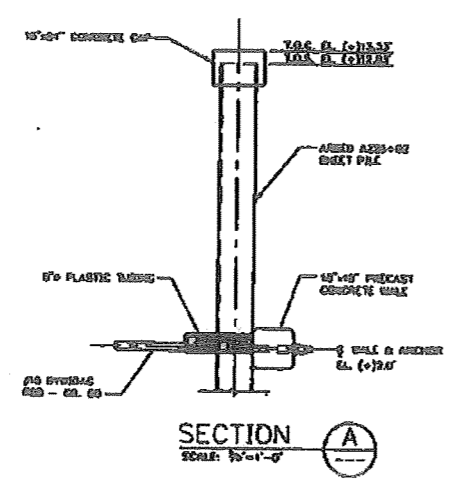
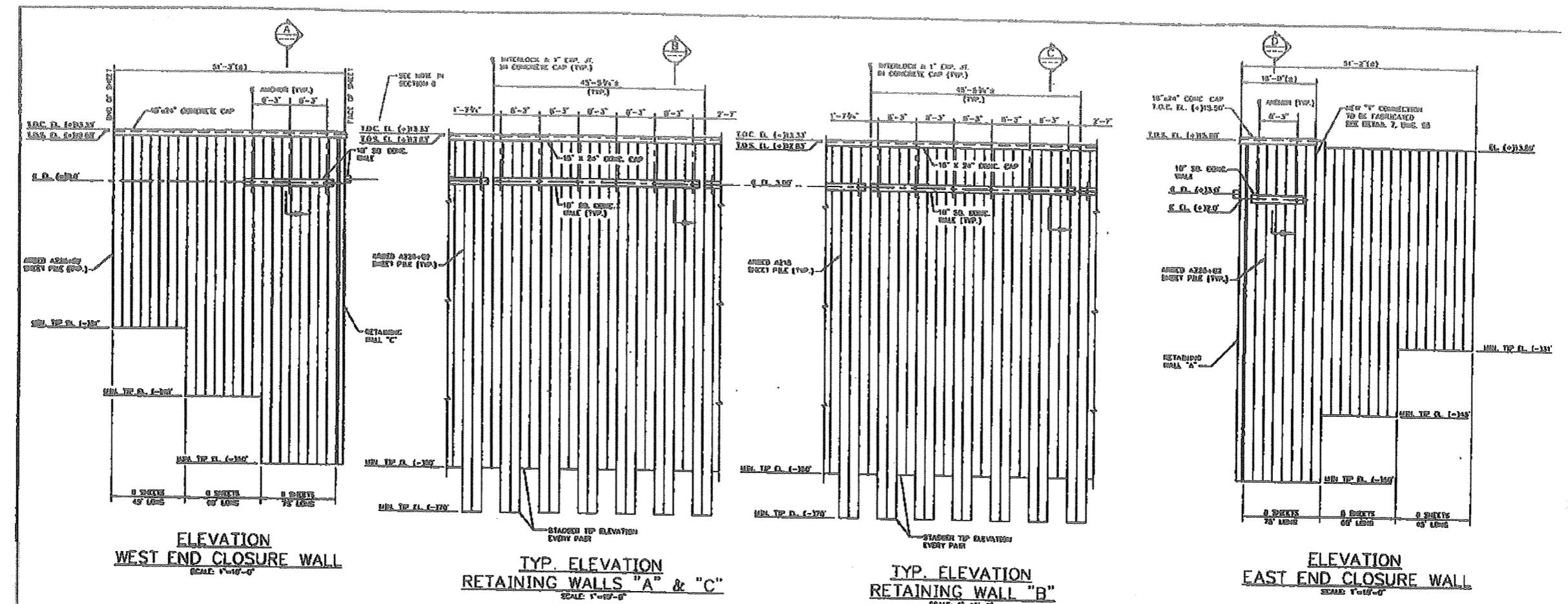




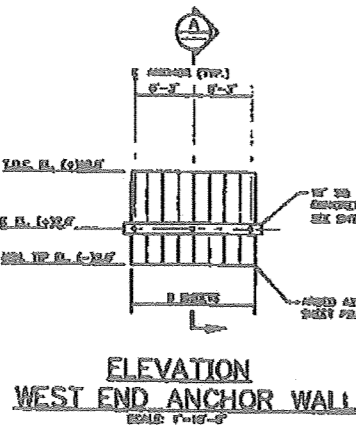
PORT 001187

 <b>LANIER &amp; ASSOCIATES</b> CONSULTING ENGINEERS INCORPORATED NEW ORLEANS, LA      HOUSTON, TX	THIS DESIGN AND DRAWING IS THE EXCLUSIVE PROPERTY OF LANIER AND ASSOCIATES CONSULTING ENGINEERS, INC. REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF LANIER AND ASSOCIATES IS EXPRESSLY FORBIDDEN.	THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION, TO THE BEST OF MY KNOWLEDGE IT COMPLIES	DATE: AUG. '98 SCALE: NOTED DESIGN: JUT DRAWN: WJL CHECK: COL APPROVD: SCB CONTRACT: 3584	<b>PORT OF PORT ARTHUR</b> TEXAS <b>WHARF EXPANSION PROJECT</b> PHASE II - FIFTY-SIXTH WHARF	<b>S7</b>
	1. DRAWN BY: JUT 2. CHECKED BY: COL 3. APPROVED BY: SCB	1. DATE: AUG. '98 2. SCALE: NOTED 3. DESIGN: JUT 4. DRAWN: WJL 5. CHECK: COL 6. APPROVED: SCB 7. CONTRACT: 3584	1. DATE: AUG. '98 2. SCALE: NOTED 3. DESIGN: JUT 4. DRAWN: WJL 5. CHECK: COL 6. APPROVED: SCB 7. CONTRACT: 3584	1. DATE: AUG. '98 2. SCALE: NOTED 3. DESIGN: JUT 4. DRAWN: WJL 5. CHECK: COL 6. APPROVED: SCB 7. CONTRACT: 3584	1. DATE: AUG. '98 2. SCALE: NOTED 3. DESIGN: JUT 4. DRAWN: WJL 5. CHECK: COL 6. APPROVED: SCB 7. CONTRACT: 3584

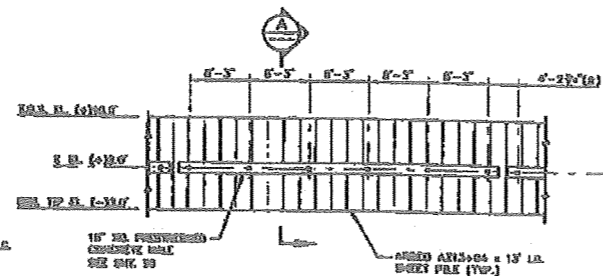
PORT 001188



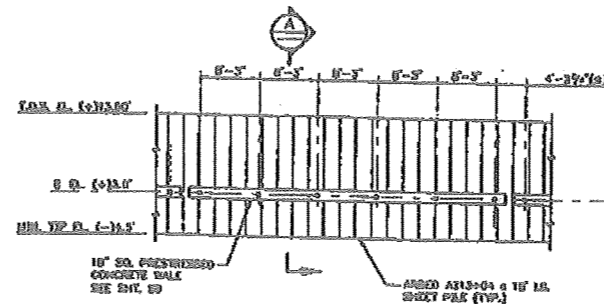
	<b>LANIER &amp; ASSOCIATES</b> CONSULTING ENGINEERS INCORPORATED NEW ORLEANS, LA      HOUSTON, TX	THIS DESIGN AND DRAWING IS THE EXCLUSIVE PROPERTY OF LANIER AND ASSOCIATES CONSULTING ENGINEERS, INC. REPRODUCTION OF THIS DRAWING IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF LANIER AND ASSOCIATES IS EXPRESSLY FORBIDDEN.	THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION, TO THE BEST OF MY KNOWLEDGE IT COMPLIES WITH ALL REQUIREMENTS.	DATE: AUG. 24, 2011 SCALE: NOTED DESIGN: WJT DRAWN: WJT CHECK: WJT APPROVED: SEC CONTRACT: 3483 ISSUE: 1	<b>PORT OF PORT ARTHUR</b> TEXAS <b>WHARF EXPANSION PROJECT</b> <b>PHASE III - RETAINING WALL</b>	SHEET NO. 3483-04 <span style="font-size: 2em; font-weight: bold;">57</span>
	ISSUED FOR CONSTRUCTION					



**ELEVATION WEST END ANCHOR WALL**  
SCALE: 1"=10'-0"



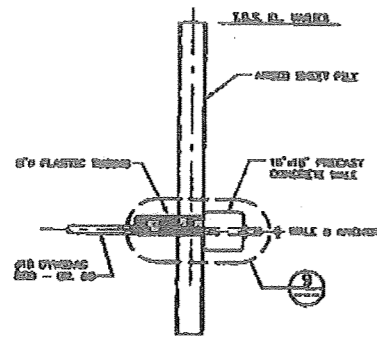
**TYP. ELEVATION ANCHOR WALL "B" & "D"**  
SCALE: 1"=10'-0"



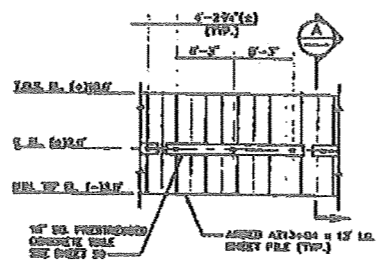
**TYP. ELEVATION ANCHOR WALL "C"**  
SCALE: 1"=10'-0"

**ANCHOR NOTES:**

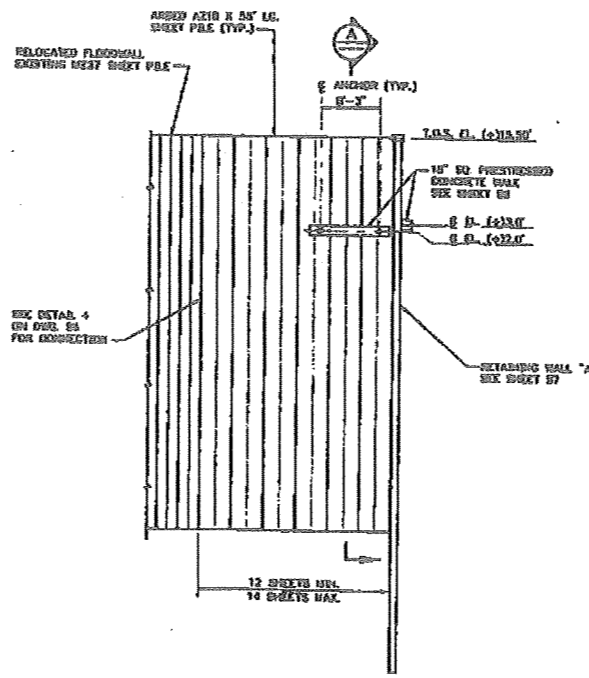
1. ALL OVERCAST ANCHOR ROOFS WILL BE FURNISHED BY OWNER. ANCHOR ROOF REINFORCEMENT WILL BE FURNISHED BY OWNER AND WALL REINFORCEMENT WILL BE FURNISHED BY CONTRACTOR. ALL ANCHOR ROOFS WILL BE FURNISHED TO 30' AND 60' ELEVATIONS.
2. ANCHOR ROOFS WILL BE FURNISHED COATED WITH 10 MILS GMA. FOR EACH 200' SQUARE FOOT AREA OF ANCHOR ROOF TO BE COATED WITH 10 MILS GMA. ALL ANCHOR ROOFS WILL BE FURNISHED UNPAINTED.
3. THE CONTRACTOR WILL BE REQUIRED TO TOUCH UP ALL DAMAGED COATING ON THE ANCHOR ROOFS WHICH RESULTS FROM HANDLING, SHIPPING AND INSTALLATION.
4. ALL CONNECTIONS SHALL BE BACKLASHED TO 50-10 "HEAD-ON-TAIL" AND COATED WITH 10 MILS GMA. FOR EACH.
5. ALL 1" x 6" x 6" PLATES ARE TO BE FURNISHED BY CONTRACTOR AND SHALL BE COATED WITH 10 MILS GMA. FOR EACH. ALL 1" x 6" x 6" PLATES SHALL BE PREPARED TO BE INSTALLED BY BACKLASHING TO 50-10 "HEAD-ON-TAIL" AND COATED WITH 10 MILS GMA. FOR EACH.
6. ALL 1/2" x 6" x 6" POLYPROPYLENE SHALL BE FURNISHED BY CONTRACTOR.
7. THE 6" PLATE FOR TYPE B (REINFORCED PIPE) AS MANUFACTURED BY "ADVANCED BRASS SYSTEMS", OR APPROVED EQUAL.



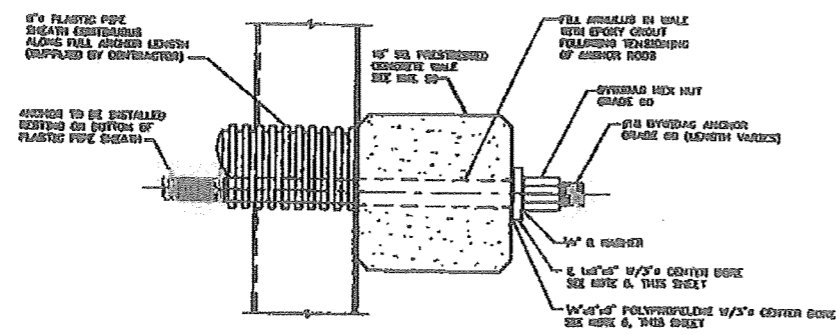
**TYP. SECTION**  
SCALE: 1/2"=1'-0"



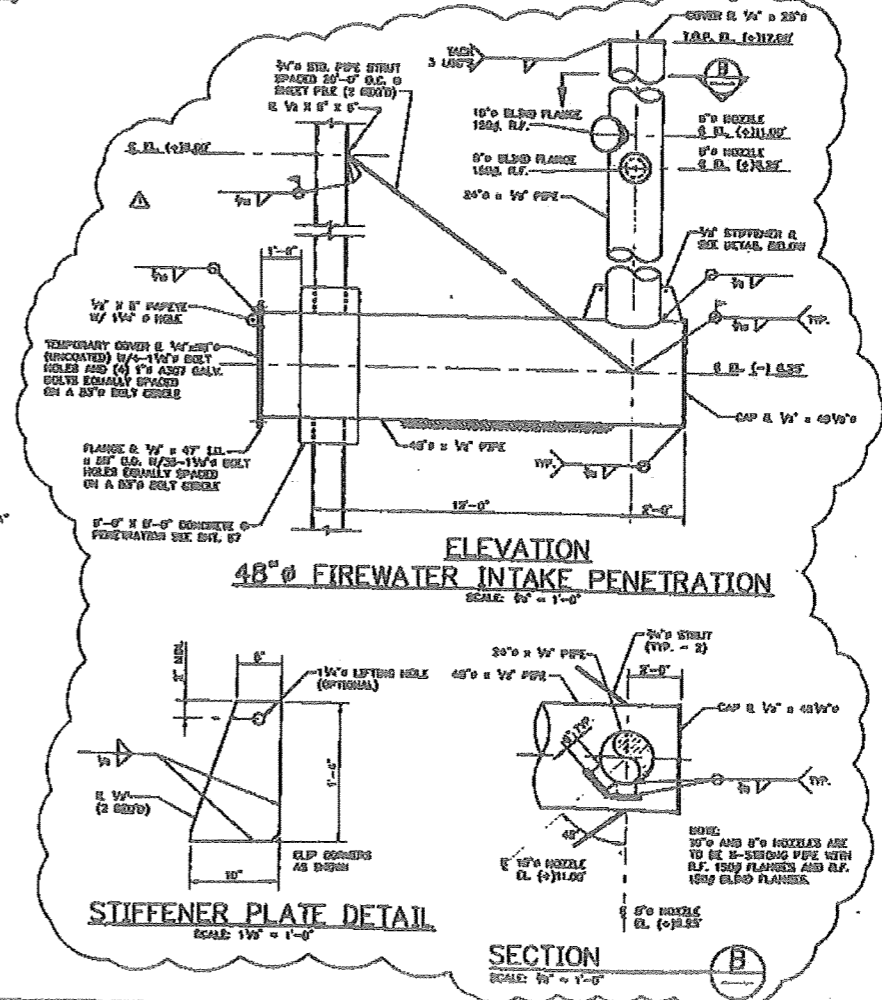
**TYP. ELEVATION ANCHOR WALL "A"**  
SCALE: 1"=10'-0"



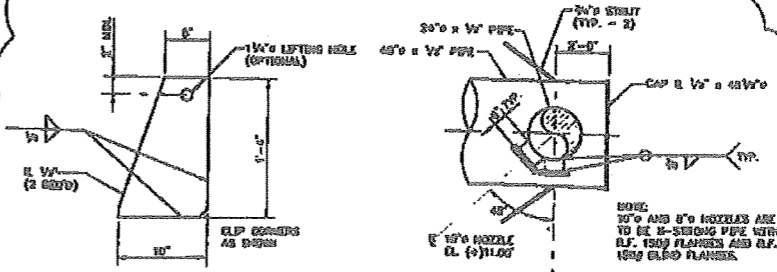
**ELEVATION EAST END ANCHOR WALL**  
SCALE: 1"=10'-0"



**TYPICAL DETAIL**  
SCALE: 1/2"=1'-0"



**ELEVATION 48" FIREWATER INTAKE PENETRATION**  
SCALE: 1/2"=1'-0"



**STIFFENER PLATE DETAIL**  
SCALE: 1/2"=1'-0"

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

PORT 001189

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NEW ORLEANS, LA      HOUSTON, TX

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DATE	DESCRIPTION
1/24/84	ADD FIREWATER PENETRATION
2/2/84	REVISED FOR CONSTRUCTION
REV. DATE	BY

THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION, TO THE BEST OF MY KNOWLEDGE IT COMPLETES WITH ALL REQUIREMENTS.

DATE	SCALE
AUG. 84	1/2"=1'-0"
DESIGN	HLJ
DRAWN	HLJ
CHECK	HLJ
APPROVED	SKL
CONTRACT	3484
ISSUE	2
CDR NO	527

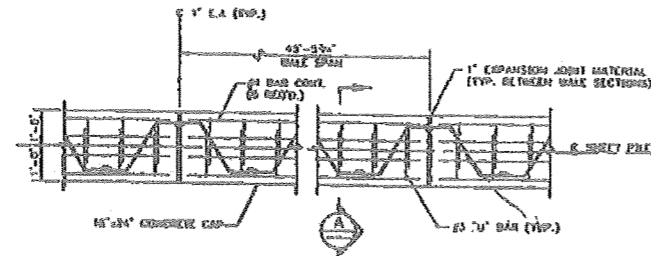
PORT OF PORT ARTHUR  
TEXAS  
**WHARF EXPANSION PROJECT**  
PHASE II - RETAINING WALL  
ANCHOR WALL ELEVATIONS AND SECTIONS

SHEET NO. 3484-04

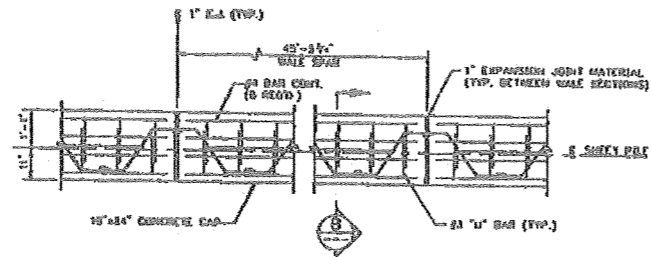
**S8**



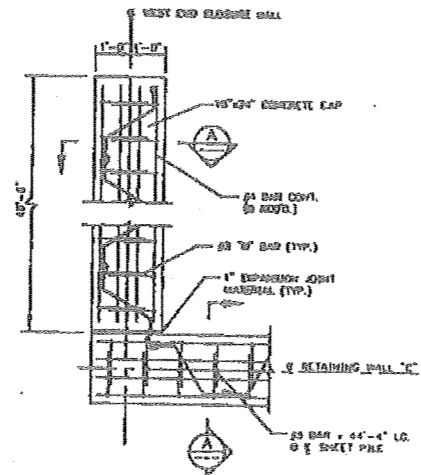




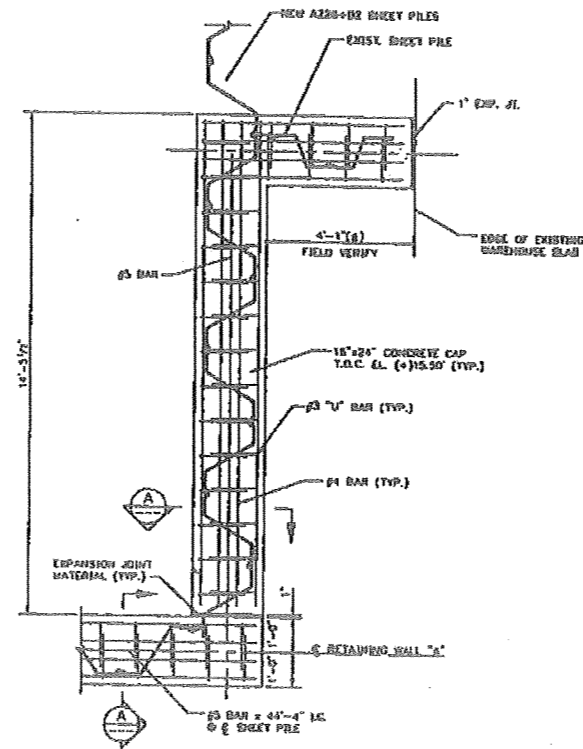
TYP. PLAN - RETAINING WALL "A" & "C"  
SCALE: 1/2"=1'-0"



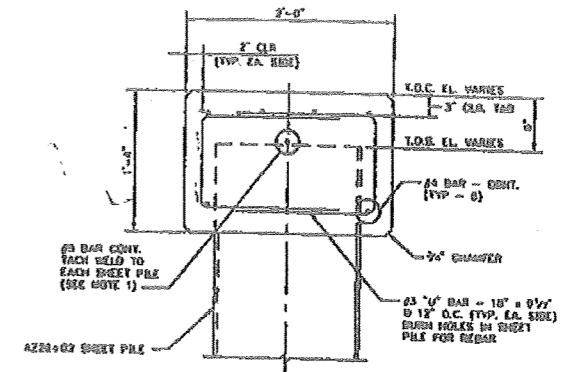
TYP. PLAN - RETAINING WALL "B"  
SCALE: 1/2"=1'-0"



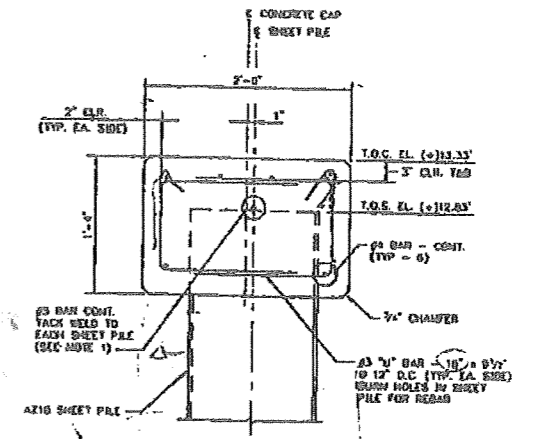
PLAN - WEST END CLOSURE  
SCALE: 1/2"=1'-0"



PLAN - EAST END CLOSURE  
SCALE: 1/2"=1'-0"



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



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

NOTE:  
1. #5 BAR TO HAVE A DISCONTINUITY AT ALL EXPANSION JOINTS.

PORT 001191

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DATE	BY	CHKD.	ISSUED FOR CONSTRUCTION
8/29/81	DEL		

THIS PLAN HAS BEEN PREPARED UNDER MY CLOSE PERSONAL SUPERVISION TO THE BEST OF MY KNOWLEDGE IT COMPLIES WITH ALL REQUIREMENTS.

DATE: AUG. '81  
SCALE: NOTED  
DESIGN: WJT  
DRAWN: WJL  
CHECK: GEL  
APPROV. SKL  
CONTRACT: 3484  
ISSUE: 1

PORT OF PORT ARTHUR TEXAS

WHARF EXPANSION PROJECT  
PHASE II - RETAINING WALL

SHEET NO. 3484-04  
**S10**