

DNR Contract No. 2503-03-18
Surveying and Engineering Services

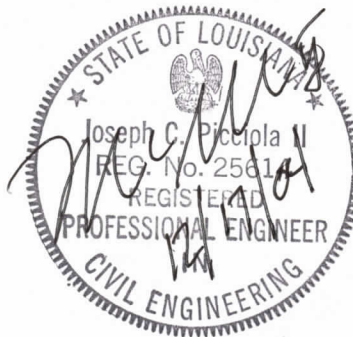
Lake Chapeau Warning Buoy Replacement (TE - 26)
Terrebonne Parish, LA

FINAL REPORT

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ccp



Picciola & Associates, Inc.
Consulting Engineers & Land Surveyors
P.O. Box 687
Cut Off, LA 70345

December 2004

1. Project Managers/Contracting Officers:

Federal Agency: NMFS

Project Manager: Cheryl Brodnax Phone: (225) 578-7923

State Agency: Louisiana Department of Natural Resources

Construction Manager: Shane Triche Phone: (985) 447-5073
Engineering Manager: Brian Babin Phone: (985) 447-0956

Project Representative: Picciola & Associates, Inc.

Project Manager: Joe Picciola Phone: (985) 632-5786
Constr. Admin.: Harold Duet Phone: (985) 632-5786
Project Rep.: Ray Leblanc Phone: (985) 632-5786

Land Owner: Point Au Fer, L.L.C.

Land Manager: Allan Ensminger Phone: (337) 462-0762

Contractor: Dupre Brothers Construction Co., Inc.

Project Manager: Kevin Parfait Phone: (985) 879-4440

2. Location and description of projects as approved for construction:

The Lake Chapeau Marsh Creation Project is located on the Point Au Fer Island, in the vicinity of Lake Chapeau, approximately 30 miles south of Morgan City, Louisiana. The project is bounded by Four League bay to the north, Atchafalaya Bay to the West, Locust Bayou and a network of canals to the south, and Wildcat Bayou to the east. The principle project featured include seven (7) rock plugs structures across existing oil field canals with warning buoy systems, dredging of 6,400 linear feet of Locust Bayou and hydraulic placement of 722,000 cubic yards of sediment.

The Project consists of replacing the existing warning buoy system with a galvanized steel pipe system at six (6) of the seven (7) rock plugs mentioned above. The structures to be modified are Sites 1, 4, 5, 6, 7, & 9. The existing buoy system is constructed of 4" schedule 40 pipes set on both sides of the structure with orange floating capsule buoys connected by steel cables to form a visual barrier system blocking the canal. This project requires the removal of the existing buoy system at the six (6) plug sites and replacing it with the more rigid galvanized steel structure to block access to the structure. The proposed structure shall consist of timber piles driven every 20 ft. across the canal with 4" diameter horizontal galvanized piping connecting the vertical members. Each structure shall be marked with appropriate warning signs and reflective tape to assure visibility at night.

3. Final, As-Built features.

The Final Project features followed exactly as planned save for three (3) Items.

- a) We increased the height of the bottom rail of the warning barricade from +2.0 Ft. NAVD to +2.5 NAVD at the request of the DNR Construction Manager.
- b) Timber piles were allowed to be provided with 2.5 CCA Treatment in lieu of 20# Creosote as requested by the Contractor. This was approved by the Project Representative and DNR as a no Cost Change.
- c) The contractor also proposed to provide pipeline shrink wrap (SHAIC HS-340) around the Galvanized Pipe Field Splices in lieu of prepping and cold galvanizing. This was approved by the Project Representative and DNR as a no Cost Change.

The lengths of the barriers varied slightly from the planned quantity and are noted on the record drawings provided by the Contractor and included in this report.

4. Key Project Cost Elements

| | Work Order Estimate | Actual Cost |
|------------------------------------|---------------------|--------------|
| Construction | \$226,055 | \$273,670 |
| Engineering and Design | \$25,300 | \$25,160.50 |
| Engineering and Design (LDNR) | - | \$7,840 |
| Bidding | \$1,172 | \$1,080 |
| Construction Administration | \$7,208 | \$4,360 |
| Construction Administration (LDNR) | - | \$4,540 |
| Construction Oversight | \$14,840 | \$14,095 |
| Project Totals: | \$274,215 | \$330,745.50 |

5. Items of Work:

| Base Bid | | | | | |
|--|---|-----------------|-------------|--------------------|----------------------------|
| <u>Item No.</u> | <u>Item of Work</u> | <u>Quantity</u> | <u>Unit</u> | <u>Unit Price</u> | <u>Amount</u> |
| 1 | Mobilization & Demobilization | 1 | LS | <u>\$20,000.00</u> | <u>\$20,000.00</u> |
| 2 | Removal of Existing Warning Buoy Structures | 1 | LS | <u>\$12,000.00</u> | <u>\$12,000.00</u> |
| 3 | Timber Pilings 20' L | 1,000 | LF | <u>\$23.00</u> | <u>\$23,000.00</u> |
| | Timber Pilings 30' L | 1,740 | LF | <u>\$23.00</u> | <u>\$40,020.00</u> |
| | Timber Pilings 40' L | 880 | LF | <u>\$23.00</u> | <u>\$20,240.00</u> |
| 4 | Piling Caps (Galvanized) | 130 | Each | <u>\$12.00</u> | <u>\$1,560.00</u> |
| 5 | Fabricated Brackets (Galvanized) | 260 | Each | <u>\$100.00</u> | <u>\$26,000.00</u> |
| 6 | 4" Schedule 40 Pipe (Galvanized) | 4,450 | LF | <u>\$25.00</u> | <u>\$111,250.00</u> |
| 7 | Warning Signs | 18 | Each | <u>\$950.00</u> | <u>\$17,100.00</u> |
| 8 | Retroreflective Tape | 1 | LS | <u>\$2,500.00</u> | <u>\$2,500.00</u> |
| Base Bid Total (Items 1 thru 8) | | | | | <u>\$273,670.00</u> |

6. Construction and construction oversight:

ITEM

| | |
|-----------------------------------|--------------------------------|
| Prime Construction Contractor | Dupre Bros. Construction, Inc. |
| Subcontractor | N/A |
| Subcontractor | N/A |
| Original Construction Contract | \$273,670.00 |
| Change Orders | \$0.00 |
| Over/Under Runs | \$0.00 |
| Damages | \$0.00 |
| Total Construction Contract Cost: | \$273,670.00 |

7. Major Equipment:

Spud Barge - DB-4 with Crane LS 108
1 - Tug Boat - M/V JJ
Material Barge - LML 102
26 ft. Aluminum Crewboat

8. Discuss construction sequences and activities, problems encountered, solutions to problems, etc.

- a) Contractor completed sites in the following order: 1, 7, 9, 6, 5 and 4. All sites were installed in the same sequence as follows.
- b) Alignment was established for driving of Timber Piles.
- c) Timber Piles were driven to desired Grade.
- d) Alignment was established for pipe rails.

- e) Timber Piles were notched for brackets and then tops cut.
- f) Pipe brackets were installed, nailed then bolted through the timber piles.
- g) 4" galvanized pipes were slid through brackets and then splices welded together and end caps installed.
- h) Shrink wrap was installed over field splices on 4" galvanized pipe.
- i) Galvanized Sheet Metal Pile covers were installed over all piles.
- j) Retroreflective tape was installed on 4" galvanized pipe.
- k) Warning Signs were installed on Piles as required by the Project Plans.

9. Construction Change Orders and Field Changes:

Not Applicable.

10. Pipeline and other utility crossings.

Not Applicable.

11. Safety and Accidents:

Excellent Safety Record with no Accidents Reported.

12. Additional Comments pertaining to construction, completed project, etc.

The Contractor was 60 days over Contract Time. There are a number of factors which contributed to the time delinquency on this project.

The time for pre-fabrication of materials took longer than anticipated. This included fabrication of the pipe brackets and then galvanizing of these brackets.

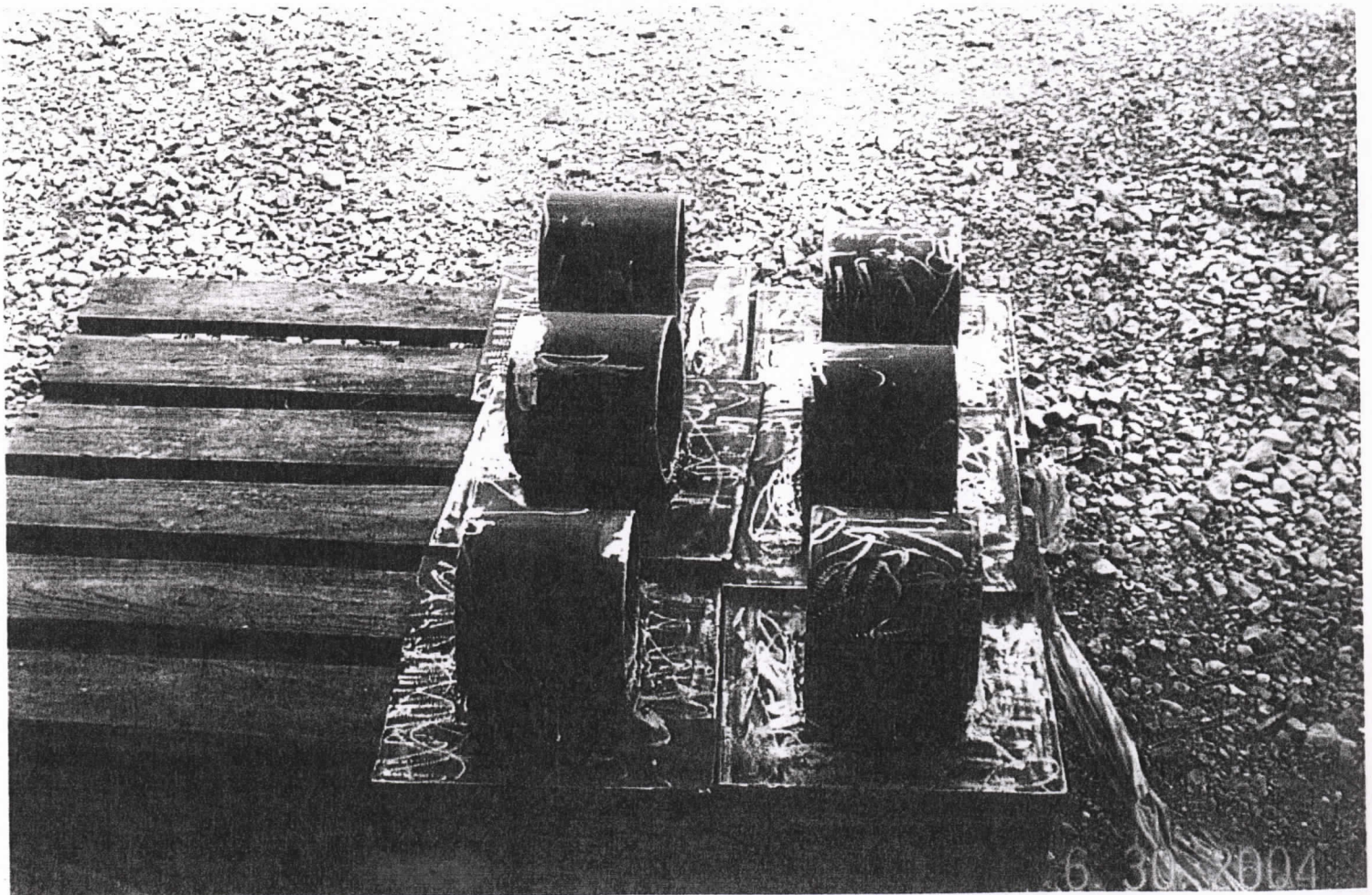
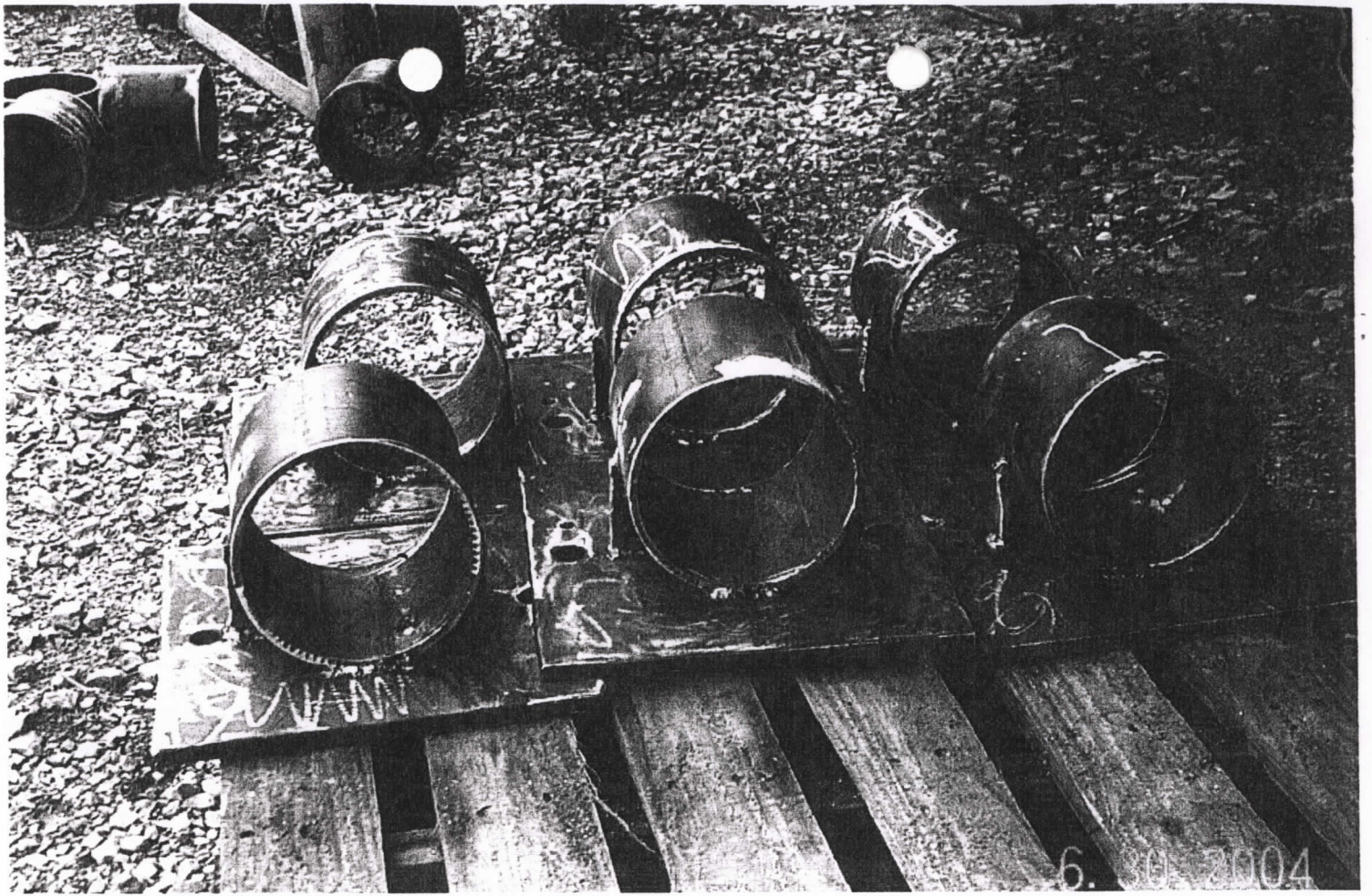
Additional time was required due to several tropical systems moving in the area. Because of the remote location of the project and proximity to the Gulf of Mexico, all equipment had to be demobilized from the project site when a tropical system threatened and then remobilized to the project site when the weather cleared. During the project, this happened three (3) separate times.

Regarding the remaining days over contract time, consideration should be given to the Contractor because of his diligence and quality of work. All other aspects of the project went primarily as planned.

13. Significant Construction Dates:

| | |
|-----------------------------|----------|
| Construction Contract Award | 06/02/04 |
| Pre-construction Conference | 06/15/04 |
| Notice to Proceed | 06/16/04 |
| Mobilization | 07/30/04 |
| Construction Start | 08/02/04 |
| Construction Completion | 10/13/04 |
| Final Acceptance | 10/19/04 |

Project Pictures

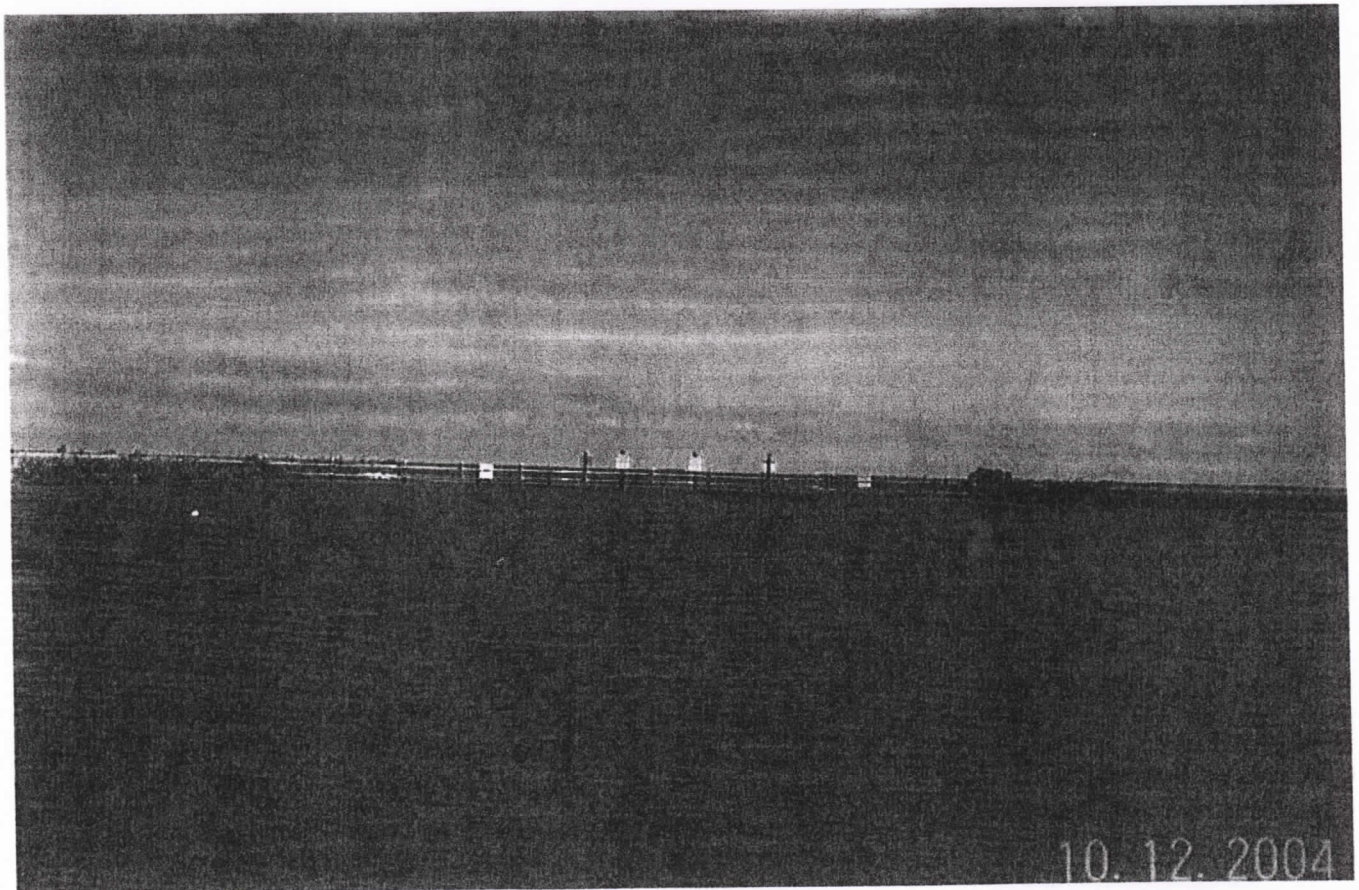
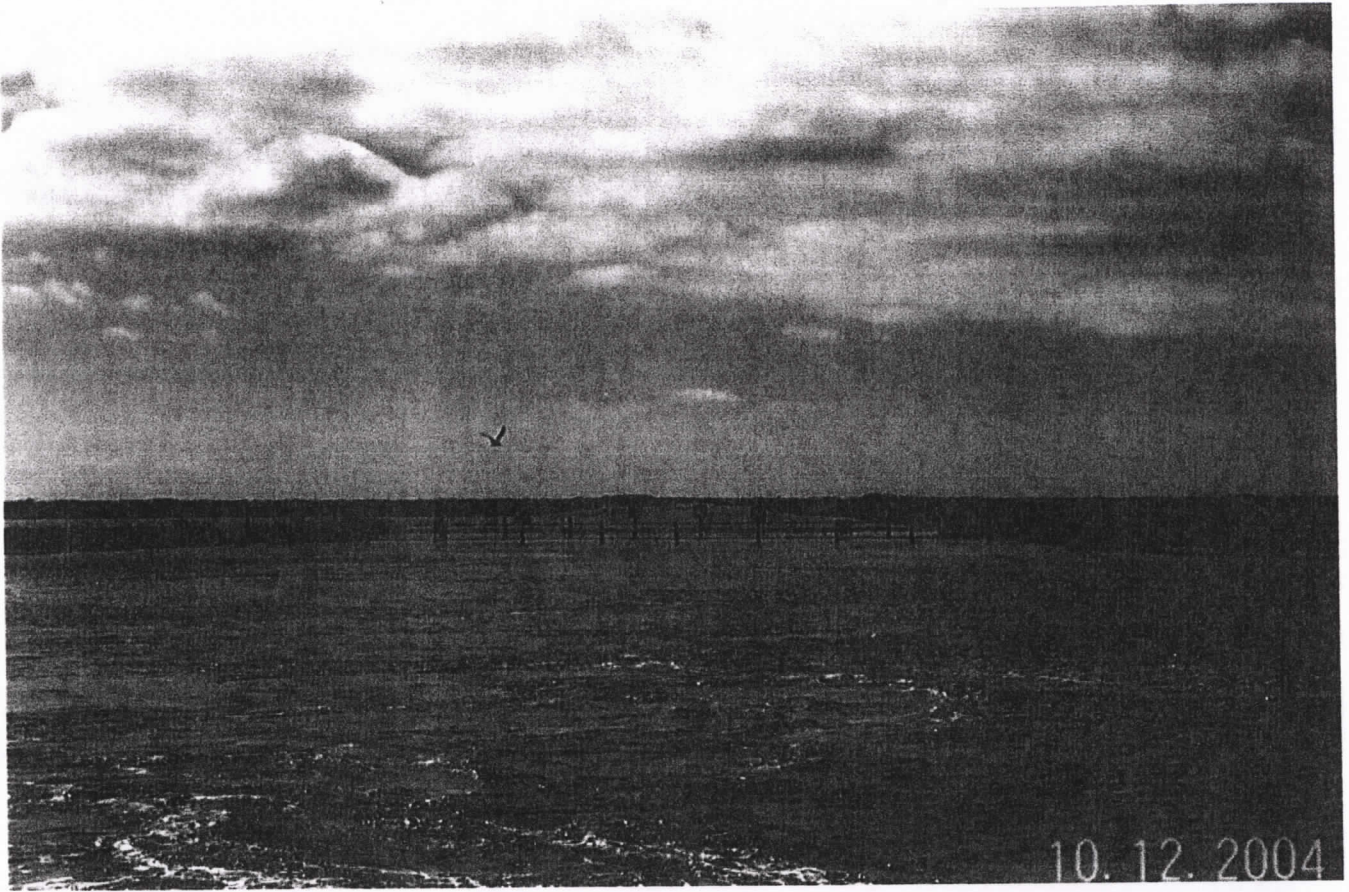


Site # 1



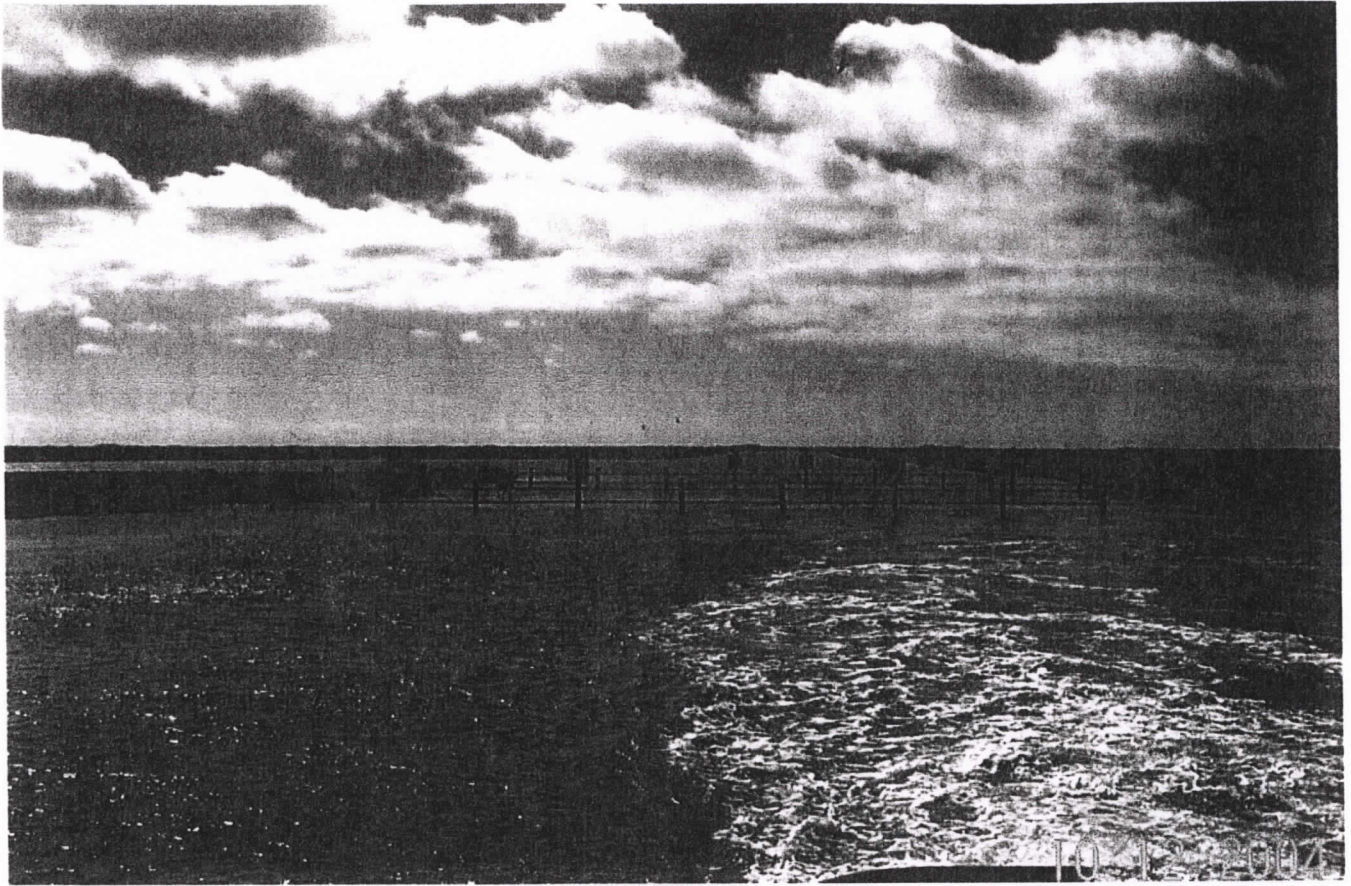
Site # 1

Site # 4 - South Side



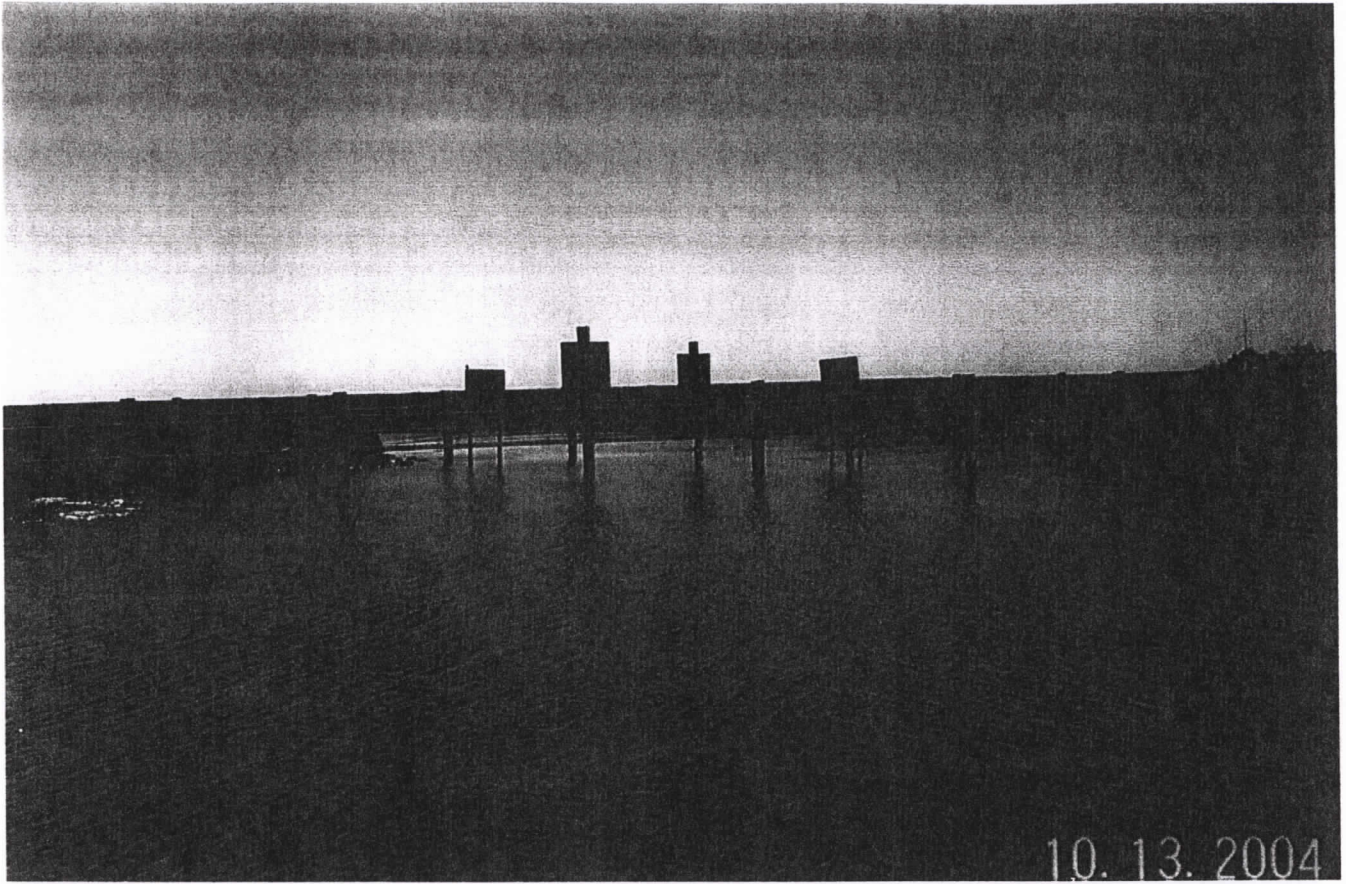
Site # 4 - South Side

Site # 4 North Side



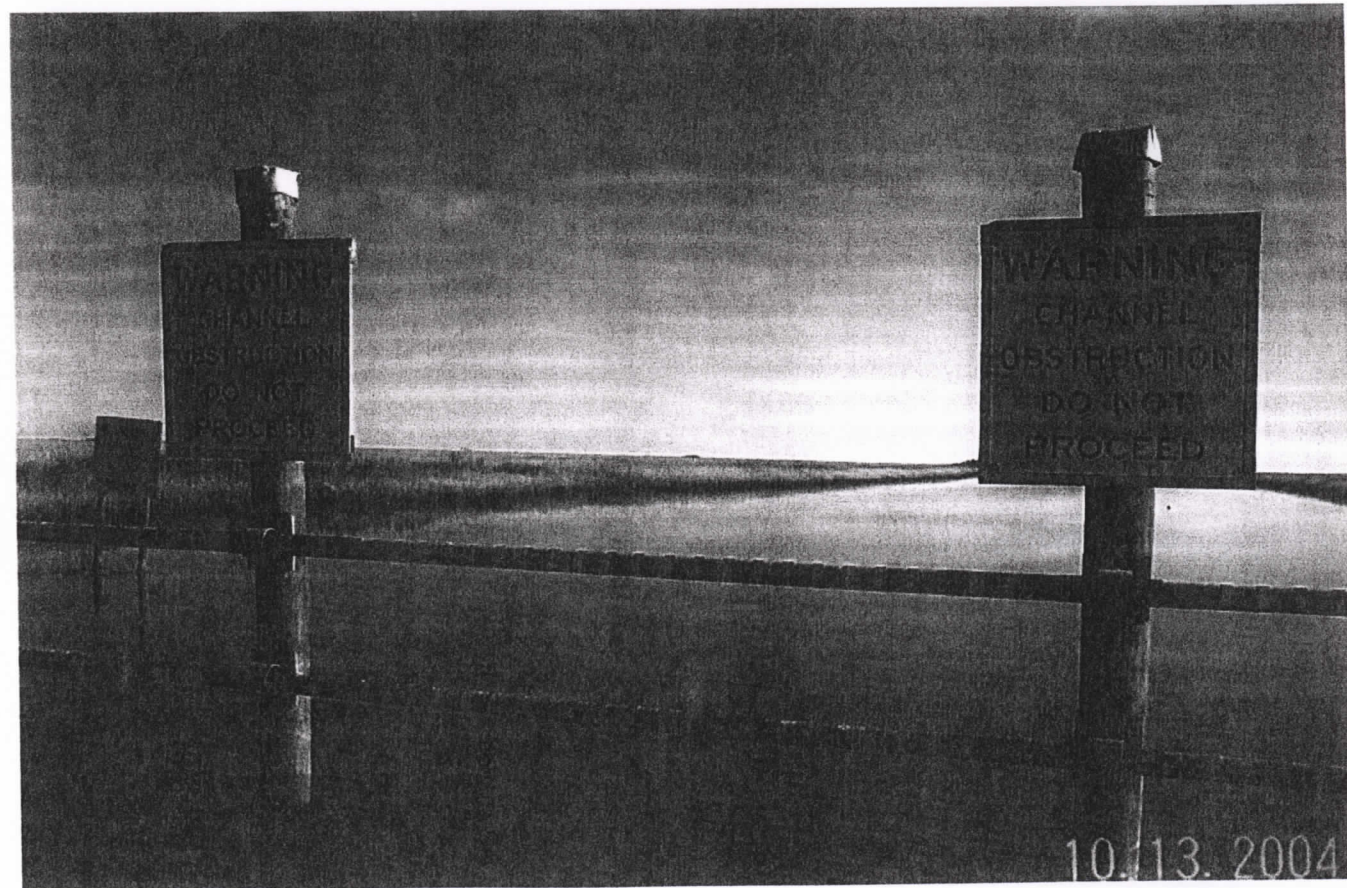
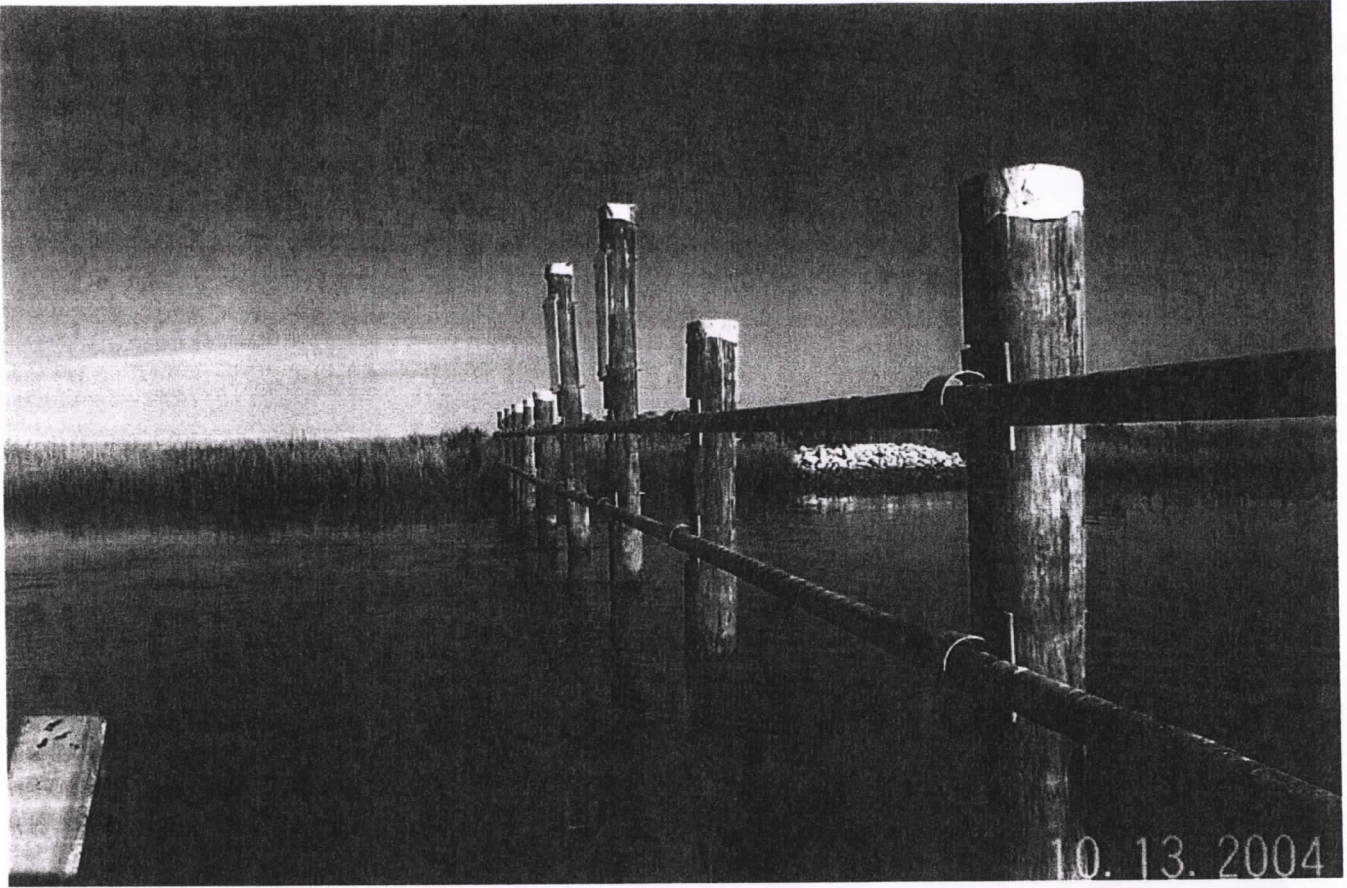
Site # 4 North Side

Site #5 Front

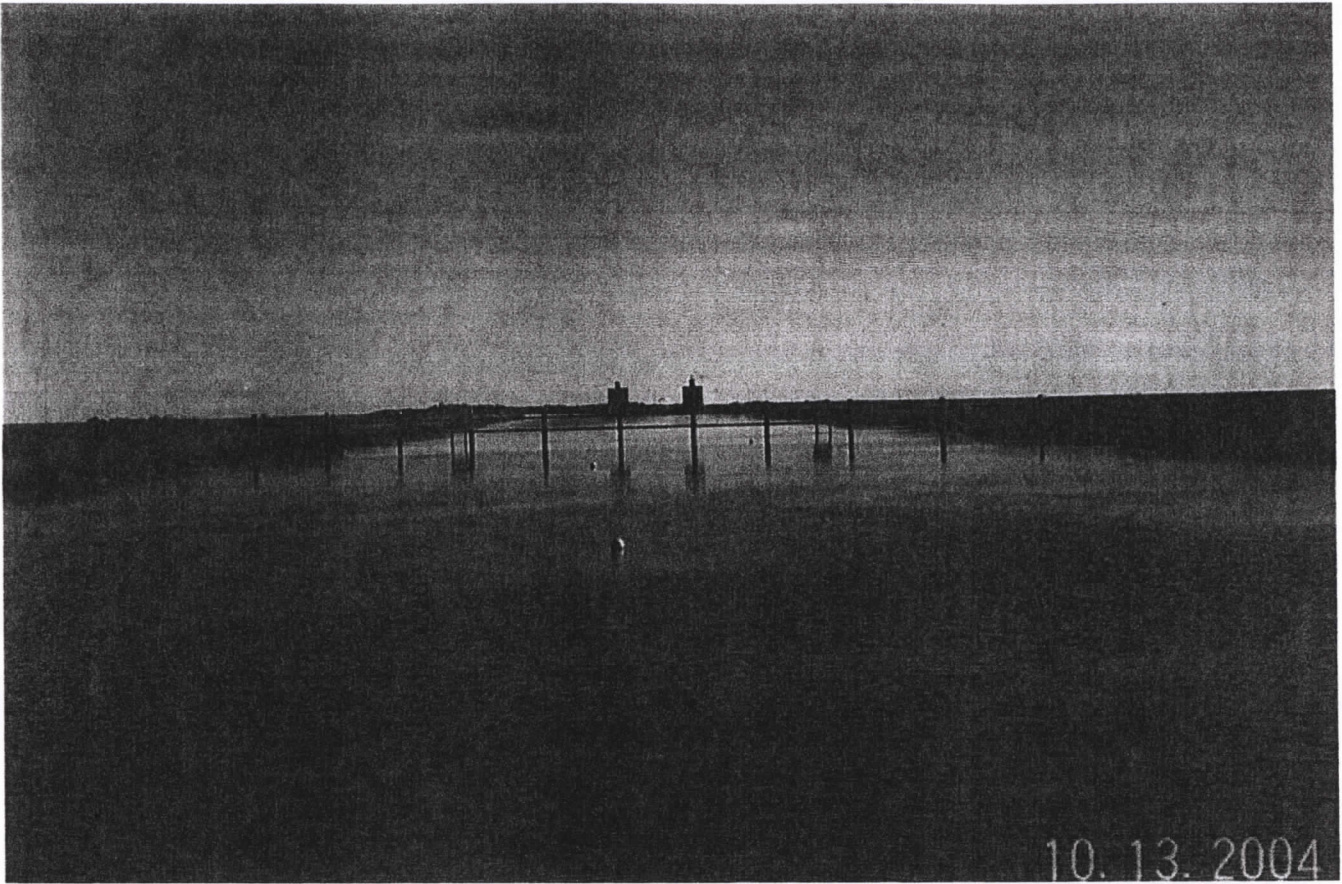


Site #5 Rear

Satz # 6



site #6



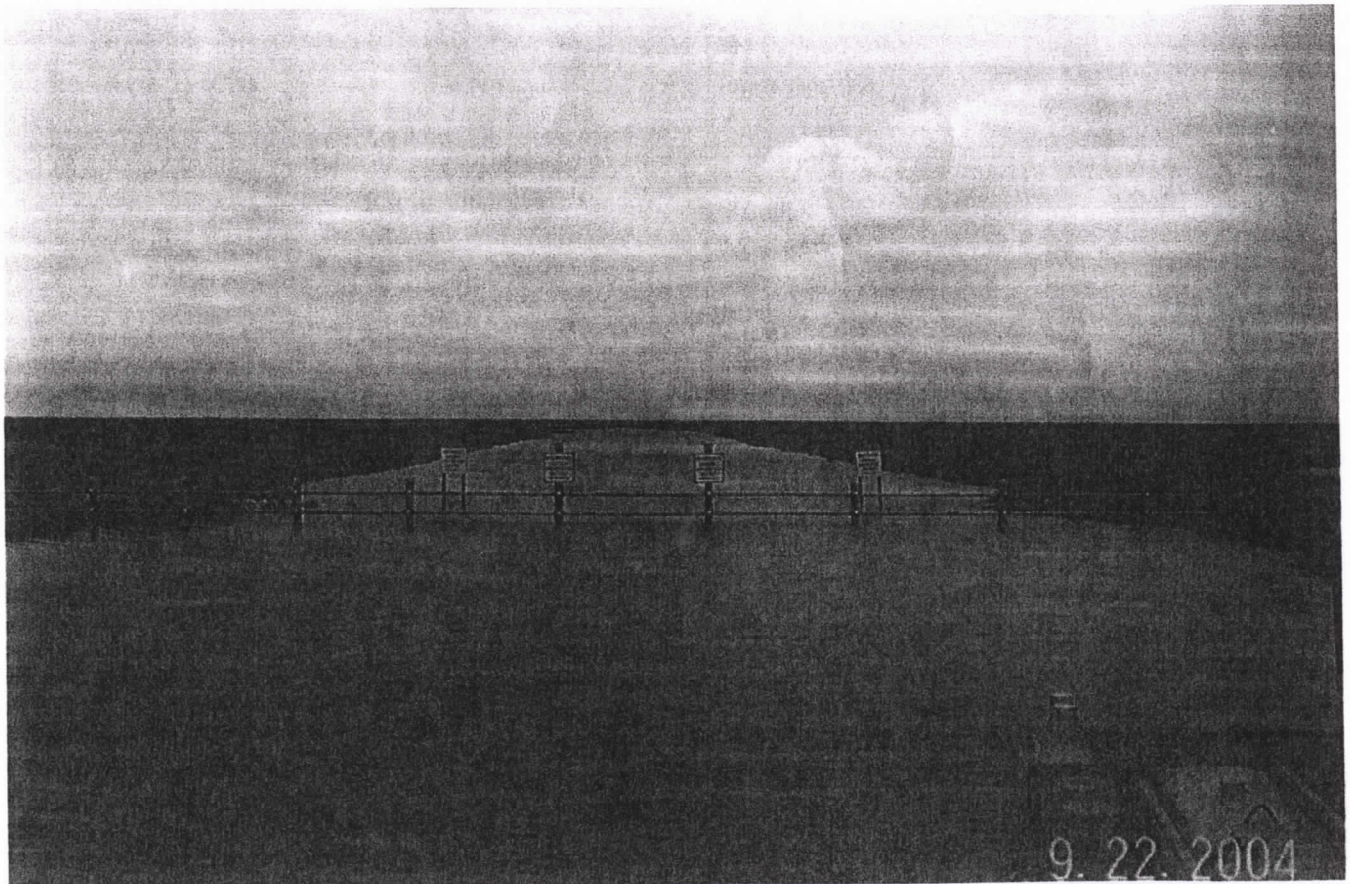
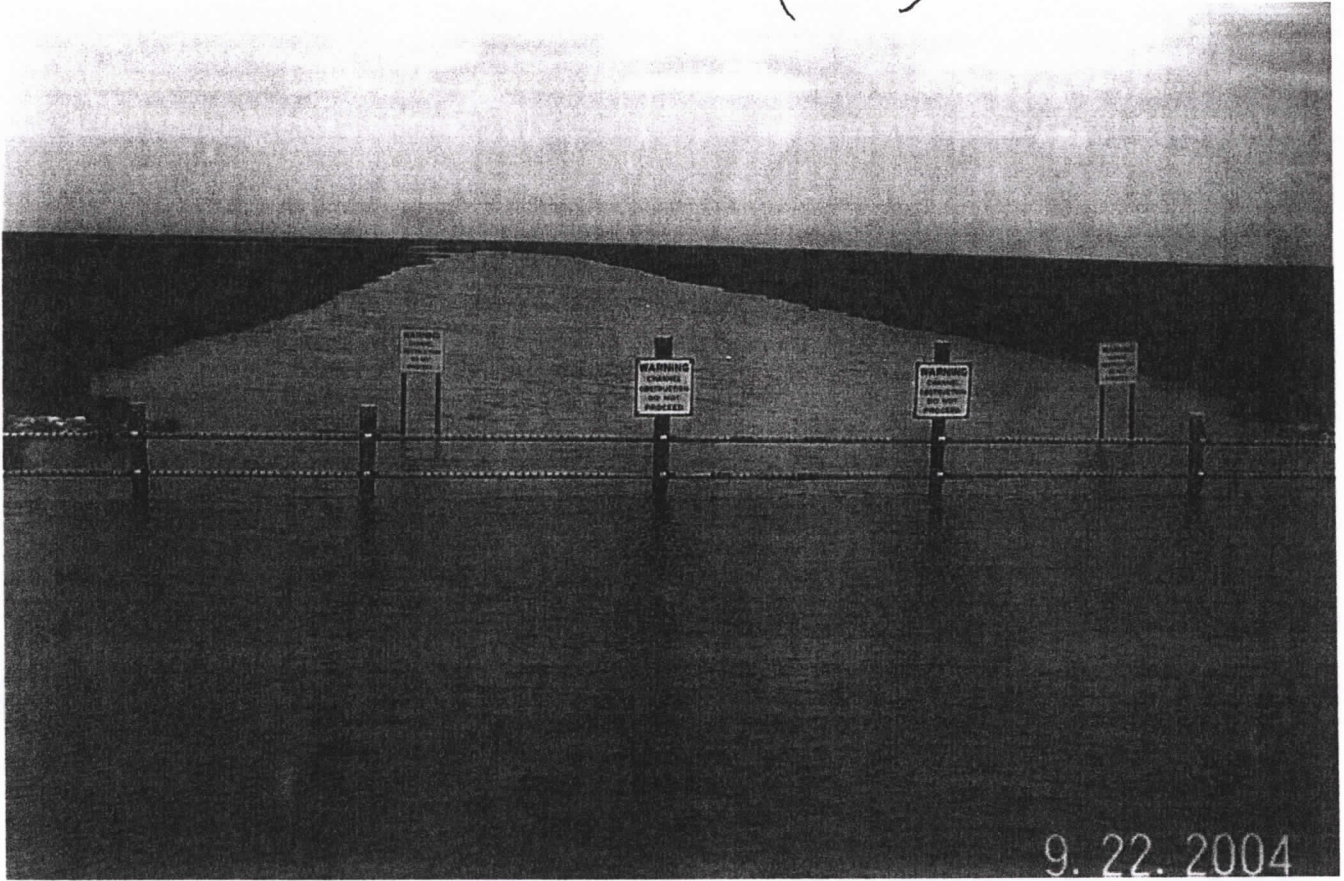
10. 13. 2004



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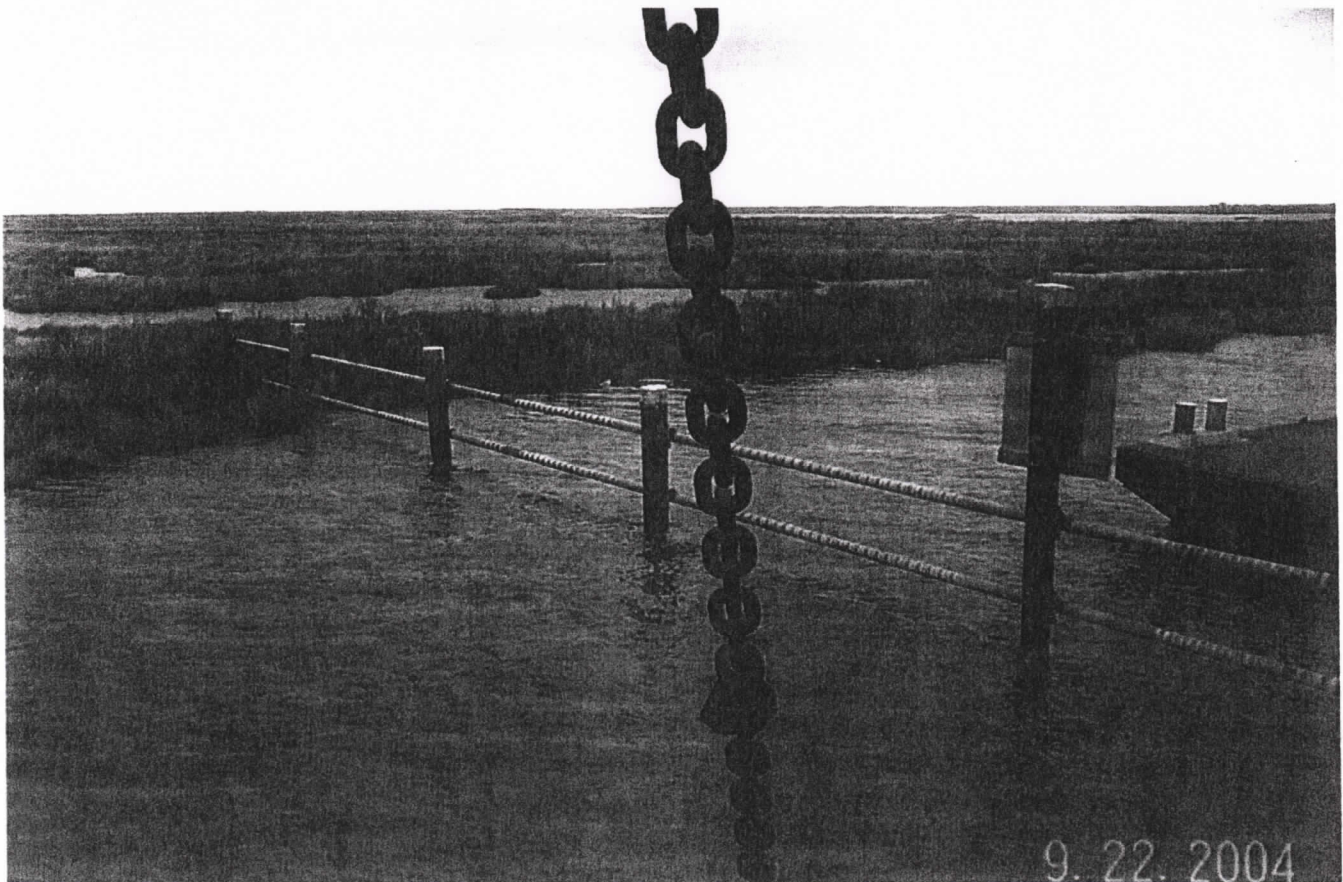
site #6

Site #6 (Front)



Site #6 (Front)

Site #6



Site #6

Site #7 North side



Site #7 - North side

Site # 7 south side



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Site # 9 South S¹



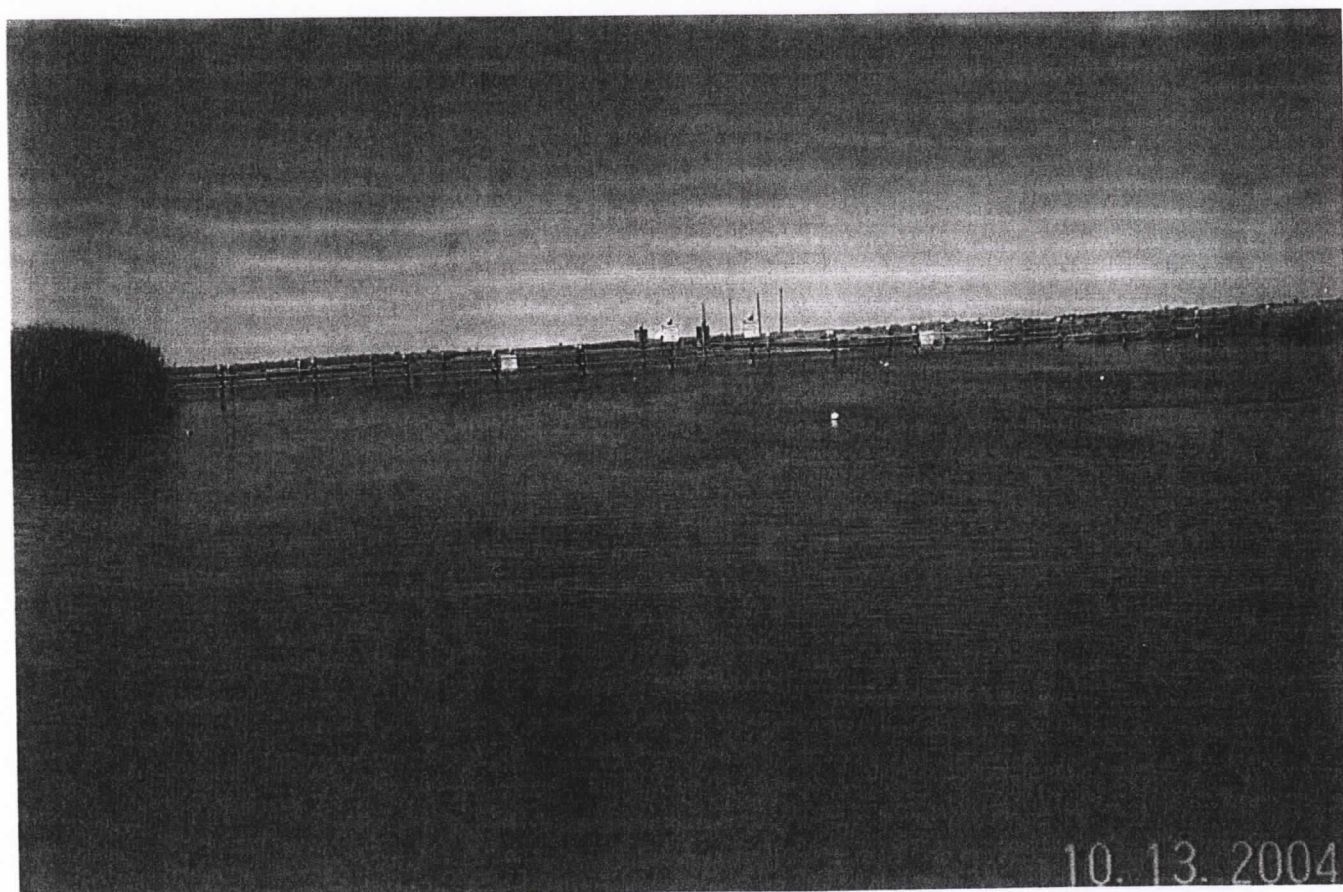
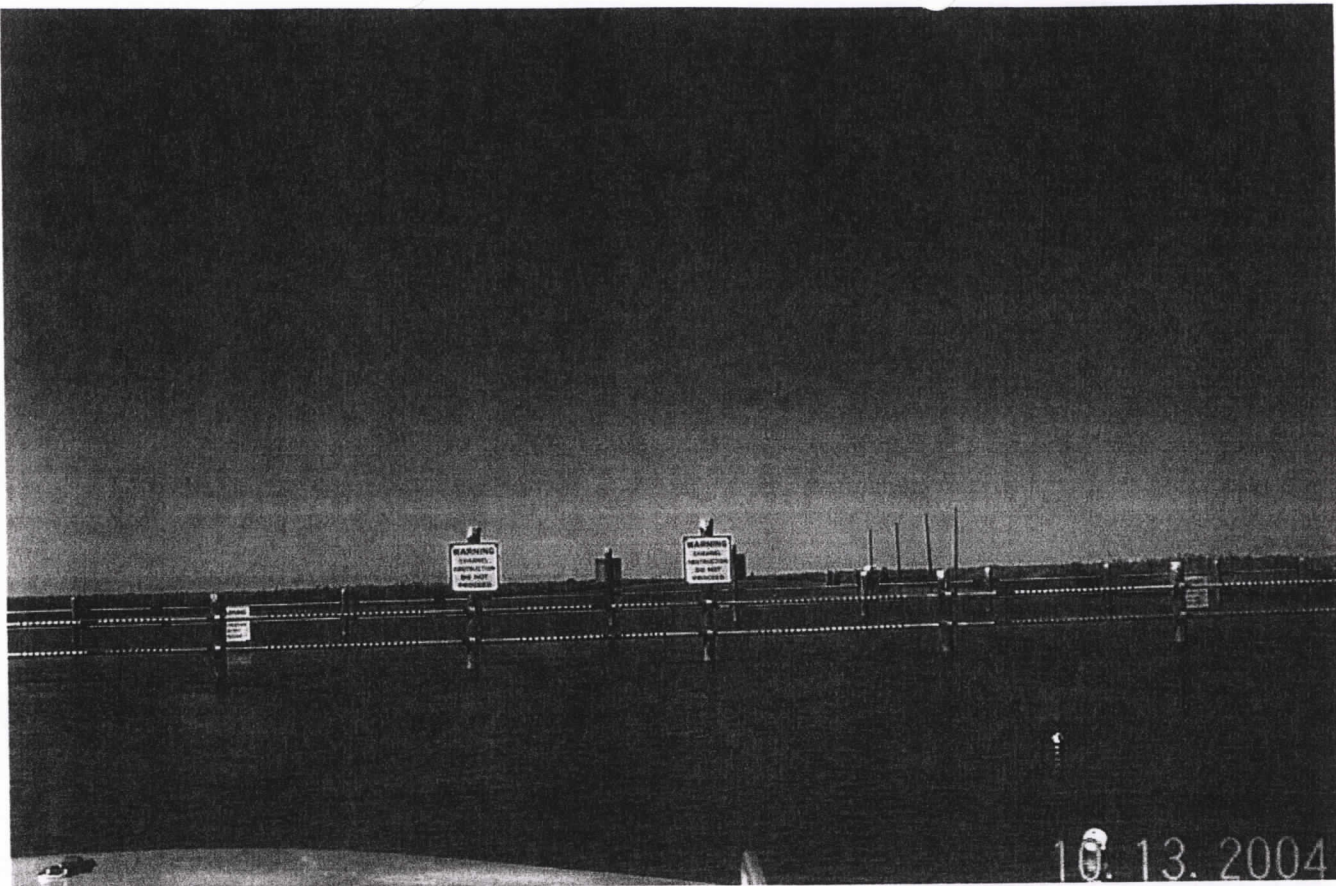
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9. 24. 2004

Site # 7 South side

Site # 9 south side



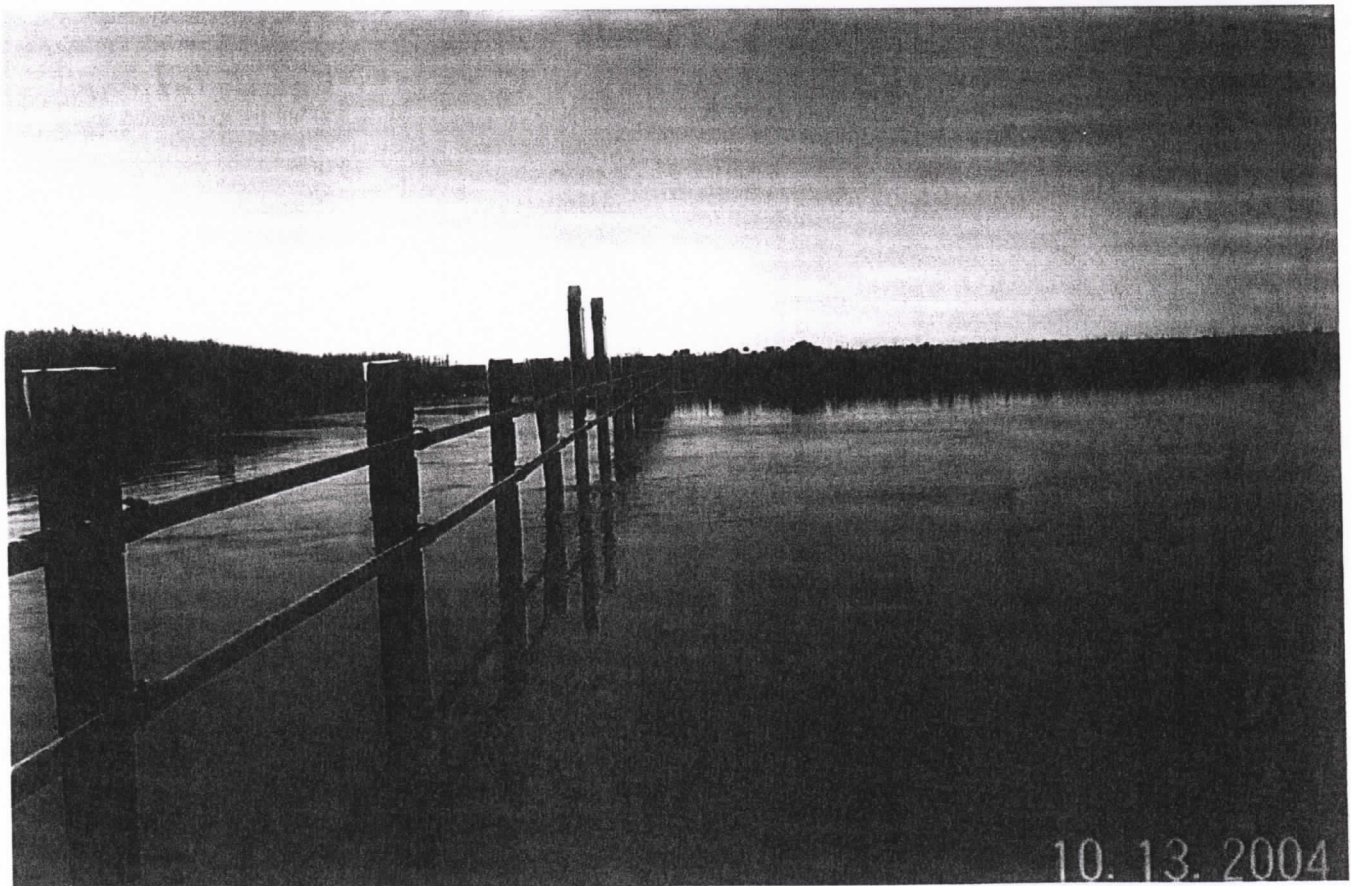
Site # 9 south side

site # 9



site # 9 - South side

Site #8 - south side



Site #9 North side

site #9 south side



10. 13. 2004



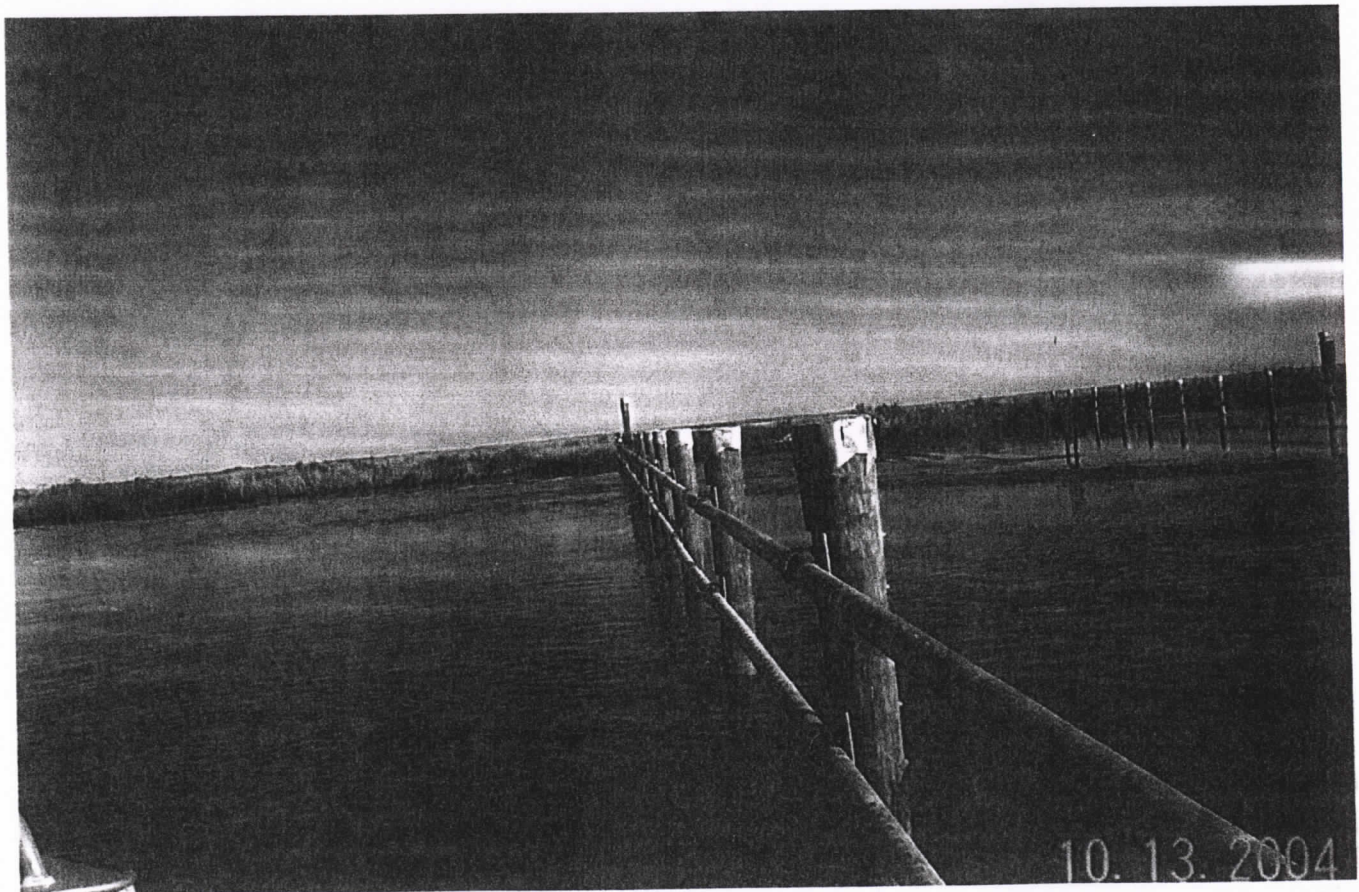
10. 13. 2004

site #7 - north side

Site # 9 North side



10. 13. 2004



10. 13. 2004

Site # 9 North side



Site # 9 Tofre Baomaku

Site #9



P&A Daily Reports

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PROJECT DIARY

REPORT NO. 4

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chaparral
 DAY: Thursday
 DATE: 8-5-04
 CONTRACTOR: Dynpro Baro (cont.)

| STREET | STA TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|-------------|---|
| | | <u>3/4 Sec delayed and arrival in getting to the job site</u> |
| | | <u>at job site, contractor welding 4" pipe, also installing coating and</u> |
| | | <u>to 420" above and cutting 24"x24" galvanized sheet metal on top</u> |
| | | <u>of pipe. at Sta #1 - 23 plates in tank stream</u> |
| | | <u>atom & remaining at Sta #1.</u> |
| | | <u>Sign</u> |
| | | <u>6 pipe to cap</u> |
| | | <u>Strip in 4" pipe.</u> |
| | | <u>Seeing 12 bolts in strip, called Kevin, also requesting sign at each</u> |
| | | <u>site 1 - 2 signs, 4 - 4 signs, 5 - 1 each side, 6 - 2 signs, 7 - 4 signs</u> |
| | | <u>9 - 4 signs total = 18 signs</u> |
| | | <u>Contractor - 4 man crew</u> |
| | | <u>Boat - 2 " "</u> |

OPERATIONS 7:00 A.M. OPERATIONS 6:30 A.M.
 STOPPED P.M. TOTAL CONTRACT DAYS: 60
 CONTROLLING WORK ITEM: Boat WEATHER: Clear DAYS USED: 49
 WORKING CONDITIONS ON SIGNATURE INSPECTOR: Ray G. Blum TODAY: 1
 CONTROLLING WORK ITEM: Boat PROJECT ENGINEER: Ray G. Blum CONTRACT DAYS REMAINING: 10
 TEMP: 74 MAX: 79 MIN:

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PROJECT DIARY

REPORT NO. 5

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chaplain
 DAY: Friday
 DATE: 8-6-08
 CONTRACTOR: Dupre Bros Const

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--|--------------|---|
| | | We called late afternoon on Tuesday, said contractor can work on weekend but I don't know to, they cannot drive timber pile on Saturday or any day if I am not on site. |
| | | Last night contractor had 2 large barges and 2 smaller barges moved to site #7, this AM we (contractor and I) checked site 9-5- and 6 for exact plans to take. also picked up barge on barge. |
| | | today crew had trouble setting up aug barge in close at site #7 due to low tide, I advised B-T sent Super Bros/Const to check pipeline canal from the West side because as I recall you can get to #7 from that area. |
| | | Contractor drove 6 timber piles to grade (at site #7) 2-20' 3-30' 1-40' weight of hammer 5' next two at grade (1' per blow) |
| | | Contractor - 4 men crew |
| | | Boat - 2 " " |
| OPERATIONS STARTED | 7:00 A.M. | OPERATIONS STOPPED 6:00 P.M. |
| CONTROLLING WORK ITEM: | Pipe & pile | WEATHER: Cloudy |
| WORKING CONDITIONS ON CONTROLLING WORK ITEM: | Low tide | SIGNATURE INSPECTOR: <u>Ray G. Blum</u> |
| TEMP: <u>88</u> MAX: <u>79</u> MIN: | | PROJECT ENGINEER: _____ |
| | | TOTAL CONTRACT DAYS: <u>60</u> |
| | | DAYS USED: <u>50</u> |
| | | TODAY: <u>1</u> |
| | | CONTRACT DAYS REMAINING: <u>9</u> |

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PROJECT DIARY

REPORT NO. 6

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chaparran
 DAY: Monday
 DATE: 8-9-04
 CONTRACTOR: Dupna Bros Const

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|--|
| | | On Saturday contractor patched Piles to another |
| | | Plate & bolt sleeves, drilled holes for bolts 12" diameter |
| | | top and bottom 4" Pipe is approx 170' |
| | | Today contractor drove 6 timber piles on the North side of |
| | | Site #7 2-20' 3-30' 1-40' also patched Piles to |
| | | install Plate & bolt sleeves and added 4" Pipe |
| | | drilling hole to secure plates with a 12" bolt |
| | | 4" Pipe installed approx 170', still experiencing low tide |
| | | Problem is, weight of hammer 5' next to blow's down to grade |
| | | Contractor - 4 Man crew |
| | | Boat - 2 " " |

OPERATIONS STARTED 7:50 AM STOPPED 6:00 AM
 CONTROLLING WORK ITEM: Pipe/Pile WEATHER: Cloudy
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: Low tide
 SIGNATURE INSPECTOR: Ray G. Blum
 PROJECT ENGINEER: _____
 TOTAL CONTRACT DAYS: 60 DAYS USED: 53 TODAY: 1
 CONTRACT DAYS REMAINING: 6

TEMP: 90 MAX: 90 MIN: _____

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PROJECT DIARY

REPORT NO. 7

PROJECT NO. 1125-0307
 NAME: DNR - Lake Chaparral
 DAY: Friday
 DATE: 8-10-04
 CONTRACTOR: Dupre Bros Const.

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--|--------------|--|
| | | due to low tide contractor can only work one side at a time |
| | | Contractor dismantling temporary gutter inside same is also |
| | | welding 4" pipe to complete all joints, also drilling |
| | | piles to secure plate with steers. |
| | | site #7 on north side needs cap on pile, straps and sign. |
| | | to the 4" pipe installed at site #7 421' |
| | | Push Boat Mound barge around at site #7 to setup on opposite |
| | | side but due to storm in Gulf same barge may go in |
| | | at 1 Dubuc. |
| | | Contractor 3-man crew |
| | | Plot 2 1 1 " |
| OPERATIONS STARTED | 7:00 A.M. | OPERATIONS STOPPED 6:30 A.M. |
| CONTROLLING PILE/PILE | | WEATHER: clear |
| WORKING CONDITIONS ON CONTROLLING WORK ITEM: | good | SIGNATURE INSPECTOR: <u>[Signature]</u> |
| TEMP: 91 MAX: 75 MIN: | | PROJECT ENGINEER: _____ |
| | | TOTAL CONTRACT DAYS: <u>60</u> |
| | | DAYS USED: <u>54</u> |
| | | TODAY: <u>1</u> |
| | | CONTRACT DAYS REMAINING: <u>5</u> |

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PROJECT DIARY

REPORT NO. 11

PROJECT NO. 1125-0302
 NAME: DWR - Lake Chapou
 DAY: Thursday
 DATE: 8-19-04
 CONTRACTOR: Dynac Constructors

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|------------------------|--------------|--|
| | | today in the 7th day of site # 7 Jam to do work |
| | | Setup lay out - length - Drive timber piles - match piles for plates and |
| | | 5 inch diameter plates and pipes. Drilling holes in piles for |
| | | 12" bolts, secure plates install pipe (6") for length, install |
| | | neoprene rubber inside sleeve PB plates with screw |
| | | at site # 4 - clean remaining cloth, coating and skid marks on pile |
| | | 4x4' sign, retro-reflective stripes. |
| | | |
| | | |
| | | |
| | | Waiting for sign - the picture - P/A show and associated, Kemi Project |
| | | Contractor - 4 men crew |
| | | Boat - 2 " " |
| | | |
| OPERATIONS STARTED | 7:00 AM | OPERATIONS STOPPED |
| CONTROLLING WORK ITEM | Pipe/pile | WEATHER: clear |
| WORKING CONDITIONS | | |
| CONTROLLING WORK ITEM: | | |

OPERATIONS STARTED: 7:00 AM
 OPERATIONS STOPPED: 6:00 PM
 CONTROLLING WORK ITEM: Pipe/pile
 WEATHER: clear
 WORKING CONDITIONS: ON
 CONTROLLING WORK ITEM: Day to follow
 SIGNATURE INSPECTOR: [Signature]
 PROJECT ENGINEER: [Signature]
 TOTAL CONTRACT DAYS: 60
 DAYS USED: 60
 TODAY: 1

TEMP: 89 MAX: 73 MIN:
 CONTRACT DAYS REMAINING: 4 days on contract

REPORT NO. 13

PROJECT DIARY

PROJECT NO. 1625-0302
 NAME: DAVE - Mike Chapman
 DAY: Monday
 DATE: 8-23-04
 CONTRACTOR: Aluminum Boat Plant

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|--|
| | | Contractor with a 3 man crew at site #7 on the west side unbraced. Unbraced the cap and put straps on the 4" pipe (top pipe) according to plans. Also a crew of 4 at site #9, notched piles installed. Piles with sleeves and installed 168' of 4" pipe. |
| | | On Saturday Jerry DiBlanc came to site and had B.G. with Contractor to put all Bloy's found at site #7 on the high ground. Contractor will do this after picking up all buoy's at 9-6 and 4. |
| | | At Site #9 crew installed pile with sleeve along with 4" pipe. 168' Contractor also drove 44 timber piles. Could not drive last pile due to low tide. will do it in AM; install rebar in sleeve. |
| | | Contractor - 4 man crew Boat - 2 " " |

OPERATIONS STARTED 7:00 AM
 OPERATIONS STOPPED 6:00 AM
 CONTROLLING WORK ITEM: Boat/pipe WEATHER: Clear
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: Good
 SIGNATURE INSPECTOR: Ray L. Blam
 PROJECT ENGINEER: _____
 TOTAL CONTRACT DAYS: 60
 DAYS USED: 60
 TODAY: 1
 CONTRACT DAYS REMAINING: 8 days on contract

TEMP: 91 MAX: 75 MIN: _____

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PROJECT DIARY

REPORT NO. 14

PROJECT NO. 1025-0302
 NAME: DNR - Lake Chapone
 DAY: Thursday
 DATE: 8-24-04
 CONTRACTOR: Dugan Bros Const

| STREET | STA TO STA | APPROXIMATE WORK ACCOMPLISHED: |
|--------|------------|---|
| | | with high tide contractor was able to drive last pile on north side at site #9. Also matched timber pile's 18, installed pipe with steel anchoring with 12" to 14" bolts. Apparent installed 336' 4" pipe in sewer. |
| | | Went to site #7 to check what crew did on Saturday. Work in satisfactory. |
| | | Contractor - 4 man crew |
| | | Bot 2 " " |

OPERATIONS 7:00 A.M. OPERATIONS 6:00 A.M.
 STOPPED 6:00 P.M.
 CONTROLLING OPERATIONS: clear
 WORK ITEM: Basic work WEATHER: clear
 WORKING CONDITIONS ON: good SIGNATURE INSPECTOR: Ray L. Blane TODAY: 1
 CONTROLLING WORK ITEM:
 TEMP: 91 MAX: 74 MIN: 74 CONTRACT DAYS REMAINING: 9 days on contract

TOTAL CONTRACT DAYS: 60

DAYS USED: 60

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PROJECT DIARY

REPORT NO. 11

PROJECT NO. 425-0302
 NAME: DNR - Lake Chaplain
 DAY: Wednesday
 DATE: 8-25-04
 CONTRACTOR: Dupre Bar Cont

| STREET | STA TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|-------------|--|
| | | Contractor Welding 4" Galvanized Pipe also ductless neoprene rubber in sleeve after removal of seal check remaining pile. at site # 9 to ductless plate with sleeve, one remaining 4" Contractor welded cap at end of pipe. |
| | | Items remaining on West side of site # 9 another 4" pipe on east & pile in 4" plate with sleeve Galvanized cap on pile 4" strip remaining sign |
| | | Contractor - 4 man crew Boat - 2 " " |

OPERATIONS STARTED: 7:00 A.M. STOPPED: 6:00 A.M. P.M.
 CONTROLLING ITEM: Aspe / pile WEATHER: Clear
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: good SIGNATURE INSPECTOR: Jay G. Blane TODAY: 1
 TOTAL CONTRACT DAYS: 60 DAYS USED: 60
 CONTRACT DAYS REMAINING: 10 days - one contract

TEMP: 91 MAX: 78 MIN:

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PROJECT DIARY

REPORT NO. 16

PROJECT NO. 1125-6302
 NAME: DNR - Lake Cheporee
 DAY: Thursday
 DATE: 8-26-04
 CONTRACTOR: Pipes Beas Const

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED. |
|--------|--------------|--|
| | | Contractor installing plate & will sleeve on last 4' similar pipe. |
| | | on North side of Site #9 also installing 4" plate pipe. |
| | | after securing plate to pole with bolts contractor welding pipe in |
| | | 7' x 6' pipe & installed, 122' contractor also notched 3 center pole |
| | | and installed 2' x 4' for warning signs off ground |
| | | contractor installed 2 - 4' x 4' warning signs |
| | | Contractor in late afternoon transferred from Site #10 to Site #9 |
| | | the supply barge to the crane barge so Paul boat can dock |
| | | supply barge after moving to the South side of Site #9. |
| | | some time later evening Paulboat will move crane barge to the |
| | | South side of Site #9 |
| | | Contractor 4' man crew |
| | | Boat 2 " " |

OPERATIONS STARTED 7:00 A.M. OPERATIONS STOPPED 6:00 P.M. TOTAL CONTRACT DAYS: 60
 CONTROLLING WORK ITEM: Barricade WEATHER: clear DAYS USED: 60
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: good SIGNATURE INSPECTOR: Ray L. Blain TODAY: 1
 TEMP: 92 MAX: 75 MIN: 75 PROJECT ENGINEER: 11 days - over contract CONTRACT DAYS REMAINING:

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PROJECT DIARY

REPORT NO. 18

PROJECT NO. 1625-0302
 NAME: DNR - Lake Chaparral
 DAY: Monday
 DATE: 9-30-04
 CONTRACTOR: Supre Barr Contract.

| STREET | STA TO STA | APPROXIMATE WORK ACCOMPLISHED: | OPERATIONS | A.M. | A.M. | TOTAL CONTRACT DAYS: |
|--------|------------|--|------------------------|------------|--|-----------------------|
| | | | STARTED | 7:00 | STOPPED | 60 |
| | | GR Saturday Contractor at Site #7, Chopped & Delivered Submerged Pipe cover on timber pile on the South Side also installed Straps on Both pipe as per Plan. After remaining at site #7 in Straps on the bottom pipe and Signs in the North Side also. At Site #9 Contractor Draining former Pile 1-20', 8-30', 3-40', Jugs in at Site #9 moved to Site #7 50% Contractor - H Men On Break 2 " " | | | | |
| | | | OPERATIONS | 7:00 | STOPPED | |
| | | | STARTED | 7:00 | STOPPED | |
| | | | CONTROLLING | PIPE/PI. 6 | WEATHER: | |
| | | | WORK ITEM: | BRICKS | OVERCAST | |
| | | | WORKING CONDITIONS ON | GOOD | SIGNATURE INSPECTOR: <u>Ray J. Blane</u> | |
| | | | CONTROLLING WORK ITEM: | | | |
| | | | TEMP: | 90 | MAX: 71 | |
| | | | | | MIN: | |
| | | | | | PROJECT ENGINEER: | |
| | | | | | CONTRACT DAYS REMAINING: | |
| | | | | | | 15 days over contract |
| | | | | | TODAY: | 1 |
| | | | | | DAYS USED: | 60 |

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PROJECT DIARY

REPORT NO. 21

PROJECT NO. 1125-0302
 NAME: DWR - Lake Chaparral
 DAY: Thursday
 DATE: 9-2-04
 CONTRACTOR: Supra-Ber Const.

| STREET | STA TO STA | APPROXIMATE WORK ACCOMPLISHED |
|--------|------------|--|
| | | Spoke to Joe this AM regarding site #1 and contractor not working on Saturday but will work on Labor Day (Monday) also meaning to site #6 by weekend |
| | | Contractor installing plate's into stems of piers and drilled 4" pipe hole length 32.8' |
| | | Contractor in afternoon welded 4" pipe to complete top and bottom also attached rebar put in sleeper's - 80 plates with stems. |
| | | Alarm's remaining at site #9 |
| | | 2x6" for sign's |
| | | Sign's |
| | | fill cap's |
| | | Contractor 4" man cover |
| | | " 2" " |
| | | " " " |

OPERATIONS 7:00 A.M. OPERATIONS 6:00 A.M. TOTAL CONTRACT DAYS: 60
 STOPPED 1:00 P.M. STOPPED 1:00 P.M. DAYS USED: 40
 CONTROLLING SPEC/DITE clear
 WORK ITEM: Base & D/W/Weather
 WORKING CONDITIONS ON good SIGNATURE INSPECTOR: Dry & 73 clear TODAY: 1
 CONTROLLING WORK ITEM:
 TEMP: 89 MAX: 73 MIN: PROJECT ENGINEER: 18 days over contract

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PROJECT DIARY

REPORT NO. 23

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chapala
 DAY: Thursday
 DATE: 9-7-04
 CONTRACTOR: Agua Brva cont

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|--|
| | | On Monday, Contractor had to use Smeel boat to move all |
| | | float cage in canal leading to Site # 5 afternoon |
| | | Contractor loaded on Dam Barge pile in trucks for Site # 5 |
| | | in afternoon Contractor did layout at Site # 5 barge where |
| | | picked up at Site # 9 and upon arriving at Site # 5 Contractor |
| | | picked up all available barge and stored on Dam Barge. |
| | | Today contractor moved barge on site over rock weir and |
| | | down 8 timber pile 5-20' 3-30' for the Smeel Barge. |
| | | Contractor watching timber piles to install plate in butt |
| | | splice. Saw pile in continue it to be a problem |
| | | Contractor - 4 man crew |
| | | Boat 2 " " |

OPERATIONS STARTED 7:00 P.M. OPERATIONS STOPPED 6:00 A.M. TOTAL CONTRACT DAYS: 60
 CONTROLLING WORK ITEM: pile WEATHER: Clear DAYS USED: 60
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: Good SIGNATURE INSPECTOR: Ray J. Blom TODAY: 9/7/04
 TEMP: 90 MAX: 73 MIN: _____ CONTRACT DAYS REMAINING: 23 days on contract

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PROJECT DIARY

REPORT NO. 20

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chapala
 DAY: Thursday
 DATE: 9-9-04
 CONTRACTOR: Unge Bros Kent

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED |
|--|-----------------|---|
| | | Contractor installing Galvanized Pipe top on South side at site #8 also installing reflective tape on 2 pipe in contractor installing 5" x 4" sign sign on south side and 1 to be installed on north side and sign. Contractor moved garage to set up lay out on the North side of site #8 afternoon contractor Alvar 8 timber piles 5-20', 3-30' |
| | | Due to the delay in installing tape in Joe & Shane truck and DNR requested that we put a few reflective tape at site #9 |
| | | Visiting Job site: Joe Piccola - D/A Shane truck - DNR Kevin Prefair Dupas Bros, Allan Emstinger - Land Aggr. |
| | | Contractor - 4 men down Boat 2 " " |
| OPERATIONS STARTED | 7:00 AM | OPERATIONS STOPPED 6:00 PM |
| CONTROLLING WORK ITEM: | Pipe/Pile | WEATHER: clear |
| WORKING CONDITIONS ON CONTROLLING WORK ITEM: | Good | SIGNATURE INSPECTOR: <u>Day & Blom</u> |
| TEMP. | 89 MAX: 73 MIN: | PROJECT ENGINEER: |
| | | TOTAL CONTRACT DAYS: <u>60</u> |
| | | DAYS USED: <u>60</u> |
| | | TODAY: <u>1</u> |
| | | CONTRACT DAYS REMAINING: <u>25 days over contract</u> |

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REPORT NO. 26

PROJECT DIARY

PROJECT NO. 1120-0302
 NAME: DNA - Lake Chaparral
 DAY: Friday
 DATE: 9-10-04
 CONTRACTOR: Dupre Bar Conit

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED. |
|--------|--------------|---|
| | | Contract at Site #5 notching similar pipe and welding 1/2" x 6 3/8" plate at end of pipe, also installing 16 plate in both slabs and gutter and similar pipe to same plate and gutter and welded 4" pipe - to be 4" pipe installed 236' |
| | | Contractor will hole on Saturday and lay to security site #5 and move on Sunday to site #6 if not full quit #5 on Monday and shell work range and leave on Sunday. |
| | | Contractor - 4 Man crew |
| | | Boat 2 " " |

OPERATIONS STARTED 7:00 P.M. OPERATIONS STOPPED 6:00 A.M. TOTAL CONTRACT DAYS: 60
 CONTROLLING WORK ITEM: Basement WEATHER: clear DAYS USED: 60
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: good SIGNATURE INSPECTOR: Ray LaBlanc TODAY: 1
 TEMP: MAX: MIN: PROJECT ENGINEER: 26 days on contract

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PROJECT DIARY

REPORT NO. 27

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chaplain
 DAY: Monday
 DATE: 8-13-04
 CONTRACTOR: Superior Construction

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED. |
|--------|--------------|--|
| | | Contractor with 4 man crew completed site #1 |
| | | Installing 2-Sign Completed Site #7 dismantling 2-Sign and |
| | | Putting Top on Bottom Pipe and completed site #5 with |
| | | Sign top and Bottom Pipe cap. Contractor this AM moved |
| | | crane barge and Supply Barge to site #6, at site #6 |
| | | Contractor did lay out according to Plan to drive timber |
| | | pile. Contractor drove 11 timber piles at site #6 |
| | | 6-20' 5-30' End boat moved Supply barge to the |
| | | entrance of the bay and will bring crane barge to |
| | | Dulac due to Hurricane Ivan |
| | | Pick up buoy in the west side of site #6 |
| | | Contractor - 4 man crew |
| | | Boat 2 11 9 |

OPERATIONS (AM) OPERATIONS 6:00 A.M.
 STARTED 7:00 P.M. STOPPED (PM)
 CONTROLLING WORK ITEM: Pipe/Pile WEATHER: clear
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: good
 SIGNATURE INSPECTOR: Doug LaBlanc TODAY: 1
 PROJECT ENGINEER: _____ CONTRACT DAYS REMAINING: _____
 TEMP. 88 MAX: 74 MIN: _____ TOTAL CONTRACT DAYS: 60
 DAYS USED: 60

29 days on contract

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PROJECT DIARY

REPORT NO. 31

PROJECT NO. 1125-0302
 NAME: Dnk - Mike Chapman
 DAY: Friday
 DATE: 9-26-04
 CONTRACTOR: Super Base East

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|---|
| | | on Thursday Contractor cancelled all activities due to tropical storm Ivan in Gulf. Barge moved to Site # 9 |
| | | Contractor installing reflective tape on 4" pipe (North side) completed. Contractor moved crane barge to the South side of Site # 9 Contractor installing spigots on pile and covering pile with a 24"x24" galvanized sheet Securing with coping nails also installing reflective tape as per plan & pile caps on South side. |
| | | Contractor Plan 1 was to work on Saturday to complete Site # 9 and define buoy & to Site # 7 |
| | | Also to move supply and crane barge to Site # 4 to start driving fender piles on Sunday. |
| | | Contractor - 4 man crew |
| | | Boat - 2 " " |

OPERATIONS STARTED 7:00 AM OPERATIONS STOPPED 6:00 PM TOTAL CONTRACT DAYS: 60
 CONTROLLING WORK ITEM: berth WEATHER: overcast Rain in AM (slow activity) DAYS USED: 60
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: good SIGNATURE INSPECTOR: Ray DePlan TODAY: 1
 TEMP: 89 MAX: 74 MIN: _____ CONTRACT DAYS REMAINING: _____
 PROJECT ENGINEER: _____ 41 days over contract

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PROJECT DIARY

REPORT NO. 32

PROJECT NO. 1125-0302
 NAME: DNR - Elna Chapman
 DAY: Monday
 DATE: 7-27-04
 CONTRACTOR: Superior Clear

APPROXIMATE WORK ACCOMPLISHED:

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|---|
| | | On Saturday contractor at site #9. Contractor dismantled |
| | | hydrolyzed pile caps also put reflective tape on Pipe #1 (#1) |
| | | After Proceeds to site #7 to unload bays that were picked |
| | | up at site #6 and #9. over weekend contractor had boat |
| | | captain move clear bays and supply bays to site #4. |
| | | this AM due to tide dropping contractor picked up bays |
| | | at site #4 made several attempts to move bays with barges |
| | | at high tide in late afternoon |

Contract on 2nd man seen
 Boat 2 " "

| | | | | | |
|--|-----------|--------------------|----------------|----------------------|----|
| OPERATIONS STARTED | 7:00 P.M. | OPERATIONS STOPPED | 6:00 A.M. | TOTAL CONTRACT DAYS: | 60 |
| CONTROLLING WORK ITEM: | Barricade | WEATHER: | low tide clear | DAYS USED: | 40 |
| WORKING CONDITIONS ON CONTROLLING WORK ITEM: | | WEATHER: | low tide good | TODAY: | 1 |

TEMP: 96 MAX: 68 MIN: 68
 SIGNATURE INSPECTOR: Ray L. Blum
 PROJECT ENGINEER: 44 days on contract
 CONTRACT DAYS REMAINING: _____

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PROJECT DIARY

REPORT NO. 23

PROJECT NO. 1625-0302
 NAME: Duke - Lake Chaparral
 DAY: Thursday
 DATE: 9-20-04
 CONTRACTOR: Dyque Bros Const.

| STREET | STA TO STA | APPROXIMATE WORK ACCOMPLISHED: |
|--------|------------|--|
| | | Train from contractor had front operator bring crane barge with material on board to work on the back side at site #4 move barge to site #3. Crane operator used bucket to pull barge in canal and lay to get to the back side at site #4. Material at site #4 12:30 after lunch. Contractor setup lay out and moved barge to drive through pile. 7 trash piles driven - 3-20' 2-30' 2-40' |

Visiting job site - Jim Pellegrini - Dyque Bros.

Contractor 4-man crew
 Boat 2 " 4

OPERATIONS 7:00 P.M. A.M.
 STOPPED 6:00 P.M.

TOTAL CONTRACT DAYS: 60

CONTROLLING WORK ITEM: Beachside WEATHER: clear

DAYS USED: 60

WORKING CONDITIONS ON CONTROLLING WORK ITEM: GOOD SIGNATURE INSPECTOR: Ray A. Blum

TODAY: 1

TEMP. 85 MAX: 66 MIN: _____ PROJECT ENGINEER: _____

CONTRACT DAYS REMAINING: _____

45 days on contract.

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PROJECT DIARY

REPORT NO. 3

PROJECT NO. 1425-0302
 NAME: DNR - Lake Chapala
 DAY: Thursday
 DATE: 9-30-04
 CONTRACTOR: Dynac Iron Const.

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED. |
|--------|--------------|--|
| | | Contractor installing plate in kettle sleeves at site # 4 on the south side - 18 plates installed several more 12" apart then finish pile. Also installed 4" galvanized pipe 334' Contractor also installing beams on note 24' x 24' galvanized steel metal for pit app 9' - install |
| | | Contractor installing reflective tape on 4" pipe's also installed neoprene rubber at all sleeves 18 total |
| | | Jughead (fisherman who leases area) pick up from the boys - bronze contractor metal in from site # 4 Contractor - 5 men crew |
| | | Bot - 2 " " |

OPERATIONS 7:00 (A.M.) OPERATIONS 6:00 (P.M.) STOPPED
 STARTED
 CONTROLLING WORK ITEM: Clear
 WORK ITEM: Clear WEATHER: Clear
 WORKING CONDITIONS ON SIGNATURE INSPECTOR: Ray G. T. Blum TODAY: 1
 CONTROLLING WORK ITEM: Low water CONTRACT DAYS REMAINING: 47 days on contract
 TEMP: 84 MAX: 67 MIN: 60 TOTAL CONTRACT DAYS: 60 DAYS USED: 60

PROJECT DIARY

REPORT NO. 36

PROJECT NO. 1125-0302
 NAME: Dick - John Chyler
 DAY: Friday
 DATE: 10-1-04
 CONTRACTOR: Supra Buor Amer.

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|--|
| | | Contractor working trench piles to install plate in cut |
| | | Slavin's Contractor demolishing 10 plates with Slavin's Second |
| | | to timber pile with 12" x 14" bolts also contractor |
| | | demolishing 4" pipe 84' x 4' = 168' x 4' = 184' Contractor furnished |
| | | working 4" pipe further south side. Contractor also demolishing |
| | | neoprene rubber in Slavin's (yellow color) also installing |
| | | reflective tape on 4" pipe |
| | | Contractor coating timber pile, demolishing hammer and |
| | | 24" x 24" salvaged sheet metal on timber pile. |
| | | Contractor - 5 man crew |
| | | Boat 2 " " |

104
 101
 336
 510
 1/4

OPERATIONS 7:00 AM OPERATIONS 6:00 AM TOTAL CONTRACT DAYS: 60
 STOPPED PM STOPPED PM DAYS USED: 60
 CONTROLLING WORK ITEM: Apr. Pile WEATHER: Clear
 WORKING CONDITIONS ON Slavin's SIGNATURE INSPECTOR: Ray L. Blair TODAY: 1
 CONTROLLING WORK ITEM: Good PROJECT ENGINEER: _____ CONTRACT DAYS REMAINING: _____
 TEMP: 86 MAX: 69 MIN: _____ 48 days on contract

PROJECT DIARY

REPORT NO. 37

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chaparral
 DAY: Monday
 DATE: 10-4-04
 CONTRACTOR: Superior Const

| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|--|
| | | On Saturday contractor installed 2 1/2" piers treated 40' Section for warning sign secured 2 4x4' sign post 1/2 between posts. Afternoon crew operator with bucket moved and pulled barge from canal and barge to side #3 where Bob Dyer pulled/pushed barge to side #4 north side. This AM contractor moved barge to side #4 set up lay out on the north side 14 more similar piles - 5:20' - 5:30' and 4:40' Contractor had trouble during the 2. center 40' pile due to rock & due to the depth of canal in center and the moment on the south side the further pile for the sign provided little support Contractor ordered to move 1 pile & recommended that the 90' pile on each end for the sign which would have 2 feet on each end. |
| | | Contractor 5-man crew Boat - 2 men crew |

OPERATIONS (A.M.) 7:00 P.M. STOPPED 6:00 A.M. P.M.
 TOTAL CONTRACT DAYS: 60
 DAYS USED: 40
 CONTROLLING ITEM: Barbed wire WEATHER: clear
 SIGNATURE INSPECTOR: Ray J. 731 am TODAY: 1
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: good
 CONTRACT DAYS REMAINING: 51 days on contract
 TEMP: 86 MAX: 67 MIN:

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PROJECT DIARY

REPORT NO. 39

PROJECT NO. 1125-0302
 NAME: DRIC - Lake Chyran
 DAY: Wednesday
 DATE: 10-6-64
 CONTRACTOR: Dyane Barr Cont.

| STREET | STA TO STA | APPROXIMATE WORK ACCOMPLISHED |
|--------|---------------|---|
| | <u>the AM</u> | <u>Contractor welded 2 plates on end of 4" pipe</u> |
| | | <u>Contractor dust ciling plate & built steam for the 4" galvanized pipe.</u> |
| | | <u>Plate with steam installed - 18 each.</u> |
| | | <u>Contractor also installing 4" pipe in steam - 336'</u> |
| | | <u>Contractor installing neoprene rubber in steam -</u> |
| | | <u>" " Reflective tape on 4" pipe</u> |
| | | <u>We recommended that we remove wood chips and spray where</u> |
| | | <u>rust spots are after work complete - B.J. was due Ray next week</u> |
| | | <u>Visiting job site - Show truck & Associates - DNR Joe Piccola - Picciola</u> |
| | | <u>Add Associates, Kern Puffert - Dyane Barr</u> |
| | | <u>Contractor - 4 - Man, crew</u> |
| | | <u>Boat 2 " 1</u> |

OPERATIONS STARTED 7:00 AM OPERATIONS STOPPED 6:00 PM TOTAL CONTRACT DAYS: 60

CONTROLLING WORK ITEM: over cast DAYS USED: 60

WORKING CONDITIONS ON CONTROLLING WORK ITEM: good WEATHER: over cast TODAY: 1

TEMP: 83 MAX: 72 MIN: 72 SIGNATURE INSPECTOR: Dyane Barr PROJECT ENGINEER: Dyane Barr CONTRACT DAYS REMAINING: 53 days over contract

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PROJECT DIARY

REPORT NO. 41

PROJECT NO. WRS-0302
 NAME: Steve Lopez
 DAY: Monday
 DATE: 10-11-09
 CONTRACTOR: Super Bros Const

| STREET | STA TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|-------------|--|
| | | Contractor watching finisher fill to surface Plate's with 5 layers - Seaming Plate's with Best which contractor called Piles - 10 Plate's with Spun surfaced, also contractor embarking 4" Galvanized Pipe & T-Post install - 195' T-Post for the north side 531' Contractor working 20 days 5th # to show be complete by Tuesday |
| | | Spoke to Joe in late afternoon, mentioned that Howard tried to call due to lost work & storm mentioned to go to see Howard if they be Tuesday or Wednesday last day contractor 5 man crew Prod 2 " 3 |

OPERATIONS 7:00 P.M. OPERATIONS 6:00 A.M. TOTAL CONTRACT DAYS: 60
 STOPPED P.M. STopped P.M. DAYS USED: 60
 CONTROLLING Pro/Prod WEATHER: Good / clear
 WORK ITEM: Grubbing SIGNATURE INSPECTOR: Ray L. Blum TODAY: 1
 CONTROLLING WORK ITEM:

TEMP: 81 MAX: 62 MIN: _____ CONTRACT DAYS REMAINING: _____
 PROJECT ENGINEER: _____
58 days on contract

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PROJECT DIARY

REPORT NO. 492

PROJECT NO. 1125-0302
 NAME: DNR - Lake Chapala
 DAY: Tuesday
 DATE: 10-12-07
 CONTRACTOR: Sugar Base Const.

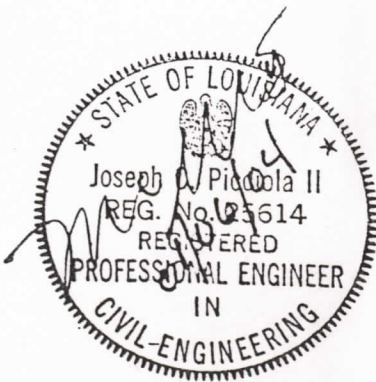
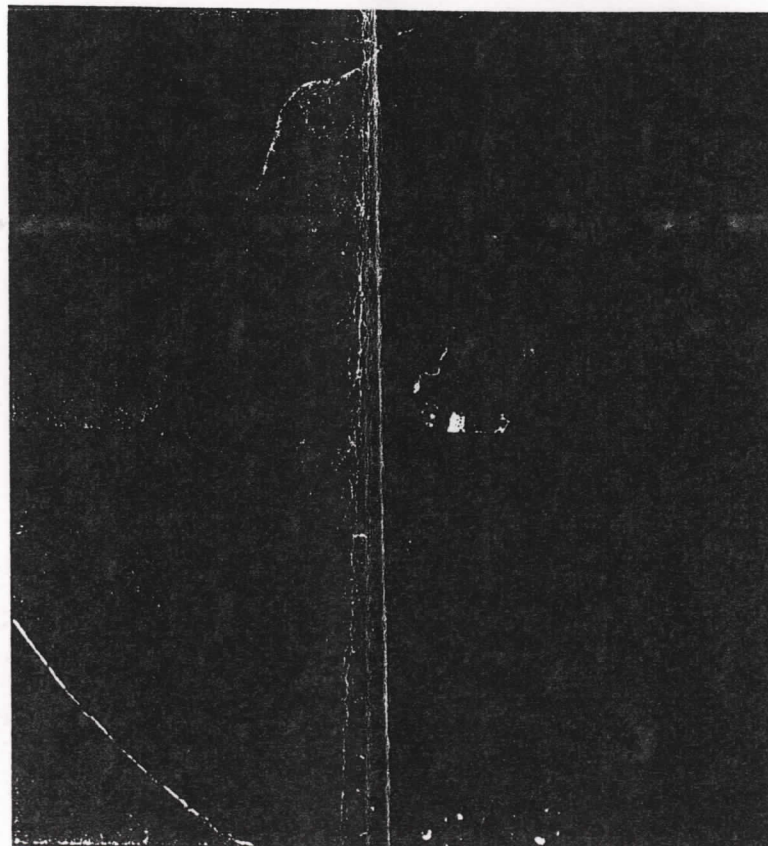
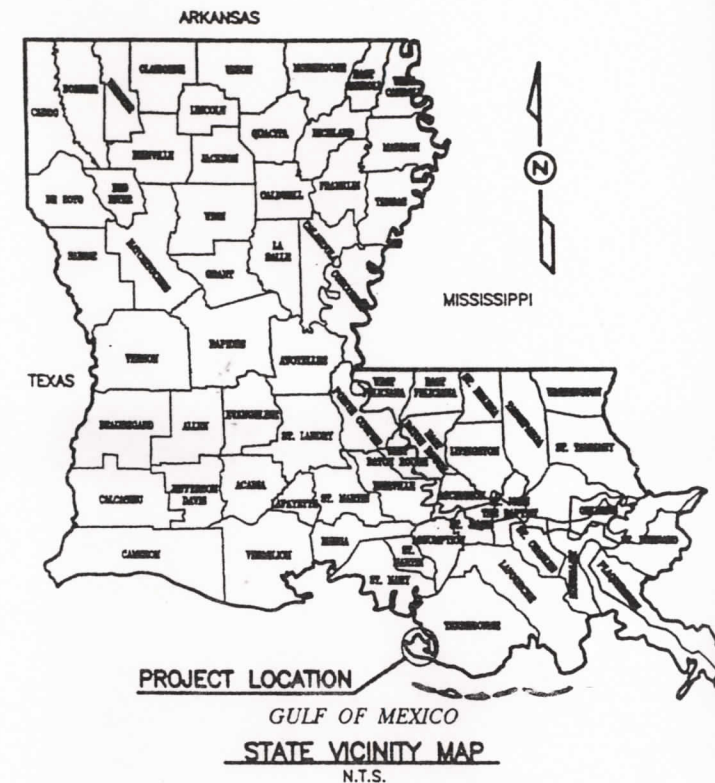
| STREET | STA. TO STA. | APPROXIMATE WORK ACCOMPLISHED: |
|--------|--------------|--|
| | | Contractor installing channel on top of pile after coating then installing 2" x 24" galvanized sheet metal for pile cap. also contractor installing reflective tape on top pipe also contractor installed rubber in drum, at all points. |
| | | Contractor installed 2 piles for sign & installed 4-2x6x4 square base. Bored in how timber piles bored 2" of 24' warning sign all work completed on Wednesday full truck up, Florida with slusher |
| | | Bored left with empty supply barges and crane barge - from job site Contractor - 5 man crew Bored - 2 " " |

OPERATIONS 7:00 (A.M.) STOPPED 6:00 (P.M.) TOTAL CONTRACT DAYS: 60
 CONTROLLING WORK ITEM: Canal WEATHER: Clear DAYS USED: 60
 WORKING CONDITIONS ON CONTROLLING WORK ITEM: good SIGNATURE INSPECTOR: Day of Blum TODAY: 1
 TEMP: 80 MAX: 60 MIN: _____ PROJECT ENGINEER: _____ CONTRACT DAYS REMAINING: _____
59 - days over contract

Contractor Record Drawings

U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL MARINE FISHERIES SERVICE
 and
 STATE OF LOUISIANA
 DEPARTMENT OF NATURAL RESOURCES, COASTAL RESTORATION DIVISION

Plans of Proposed
 TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT
 TERREBONNE PARISH
 MAY 2003



RECOMMENDED FOR APPROVAL

 DNR/CRD ENGINEER MANAGER DATE

 DNR/CRD ENGINEER MANAGER DATE

PREPARED BY:
 PICCIOLA & ASSOCIATES, INC.
[Signature]
 JOSEPH C. PICCIOLA, II, 01/06/04
 DATE

As-Builts (11/02/04)
→ Lengths of Barricades as noted on Plans
By Kevin Perfort
Dupre Bros. Const. Co.

INDEX TO SHEETS:

| SHEET NO. | DESCRIPTION: |
|---------------------|--|
| 1 | TITLE SHEET, STATE AND LOCAL VICINITY MAPS |
| 2 | GENERAL NOTES AND ESTIMATED QUANTITIES |
| 3 | OVERALL PROJECT SITE PLAN |
| 4 | PLAN VIEW - SITE 1 |
| 5 | PLAN VIEW - SITE 4 AND SITE 5 |
| 6 | PLAN VIEW - SITE 6 AND SITE 7 |
| 7 | PLAN VIEW - SITE 9 |
| 8 | TYPICAL BARRICADE - PLAN & ELEVATION VIEWS |
| 9 | TYPICAL BRACKET/PIPE DETAILS |
| 10 | TYPICAL SIGN ATTACHMENT DETAILS |
| TOTAL NO. OF SHEETS | <u>10</u> |

REVISIONS:

| DATE: | REMARKS: |
|----------|-------------------------------|
| 01-06-04 | ADDRESS COMMENTS FOR SHEET 10 |
| | |
| | |
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 CIVIL ENGINEERS NAVAL ARCHITECTS
 LAND SURVEYORS MARINE ENGINEERS

P.O. BOX 687
 CUT OFF, LOUISIANA 70345
 (985) 632-5786

DRAWING PLOTTED
 AT HALF-SCALE

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| SE BID SUMMARY OF ESTIMATED QUANTITIES | | | |
|--|--|----------|----------|
| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
| 1 | MOBILIZATION AND DEMOBILIZATION | LUMP SUM | LUMP SUM |
| 2 | REMOVAL OF EXISTING WARNING BUOY STRUCTURES | LUMP SUM | LUMP SUM |
| 3 | TIMBER PILING (CLASS "B", 20 lb. Creosote) 20' LONG | LIN. FT. | 1000 |
| | TIMBER PILING (CLASS "B", 20 lb. Creosote) 30' LONG | LIN. FT. | 1740 |
| | TIMBER PILING (CLASS "B", 20 lb. Creosote) 40' LONG | LIN. FT. | 880 |
| 4 | PILING CAPS (GALVANIZED) | EACH | 184 |
| 5 | FABRICATED BRACKETS (HOT DIPPED GALVANIZED) W/(2) 5/8"x12" GALV. BOLTS, NUTS & WASHERS PER UNIT | EACH | 328 |
| 6 | 4" GALV. SCH. 40 PIPE | LIN. FT. | 2,831' |
| 7 | WARNING SIGNS | EACH | 22 |
| 8 | RETROFLECTIVE TAPE | LUMP SUM | LUMP SUM |
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GENERAL NOTES:

- BASIC HORIZONTAL AND VERTICAL CONTROL POINTS HAVE BEEN ESTABLISHED OR DESIGNATED BY THE ENGINEER AND ARE SHOWN ON THE PLANS. CONTRACTOR SHALL MAINTAIN AND PROTECT FROM DAMAGING OR DISLOCATING THESE CONTROLS AND SHALL PERFORM ALL ADDITIONAL SURVEY, LAYOUT, AND MEASUREMENT WORK USING THESE CONTROLS.
- CONTRACTOR SHALL VERIFY EXISTING GRADES, ELEVATIONS, AND LOCATIONS IN THE FIELD PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, RULES AND REGULATIONS OF THE LOUISIANA STATE POLICE, THE TERREBONNE AND ST. MARY PARISH SHERIFF'S OFFICES, DNR, USCG, FEDERAL AUTHORITIES, STATE AND PARISH HEALTH DEPARTMENTS AND OTHER STATE OR PARISH AUTHORITIES HAVING REGULATIONS AND JURISDICTIONAL RIGHTS APPLICABLE TO THE WORK OR JOB SITES.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND PARISH LAWS CONCERNING POLLUTION OF WATERWAYS, AND PROTECTION OF SHELLFISH, FISH, WATERFOWL, WILDLIFE AND DOMESTIC ANIMALS.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH BOTH THROUGH AND LOCAL MARINE TRAFFIC.
- CONTRACTOR SHALL EMPLOY EFFECTIVE MEASURES TO CONTROL EROSION OF NATURAL AND CONSTRUCTED SURFACES.
- THE SAFETY HAZARDS PROMULGATED BY AND THE PRECAUTIONS DEFINED WITHIN SAME OF THE OSHA, THE USCG AND ALL OTHER REGULATING AUTHORITY HAVING JURISDICTION AND THAT ARE APPLICABLE TO THE WORK SHALL BE ADHERED TO AND ENFORCED BY THE CONTRACTOR.
- TEMPORARY UTILITIES AND SANITARY FACILITIES FOR OPERATION OF THE CONTRACTOR'S PLANT OR EQUIPMENT SHALL BE PROVIDED AND MAINTAINED AT THE EXPENSE OF THE CONTRACTOR.
- COASTAL USE PERMITS WILL BE PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OTHER PERMITS.
- CONSTRUCTION SERVITUDES FOR ALL WORK AND RIGHT-OF-ENTRY ONTO THE SITE WILL BE PROVIDED BY OWNER.
- ALIGNMENTS AND/OR ELEVATIONS MAY BE ADJUSTED IN THE FIELD BY THE PROJECT ENGINEER TO MEET CHANGING FIELD CONDITIONS OR TO BETTER ASSURE ACCOMPLISHMENT OF PROJECT OBJECTIVES. ANY ADDITIONAL QUANTITIES WILL BE PAID FOR AT THE UNIT PRICE BID FOR THE SPECIFIC ITEM.
- CONTRACTOR SHALL NOT BE ALLOWED TO IMPEDE DRAINAGE DURING RAINSTORMS OR WHEN A RAINSTORM IS IMMINENT.
- DUE TO CHANGING FIELD CONDITIONS, SHORELINES SHALL NOT BE USED AS CONSTRUCTION REFERENCE POINTS.
- X AND Y COORDINATES ARE BASED ON NAD 83; LATITUDES AND LONGITUDES ARE BASED ON NAD 83; ELEVATIONS ARE BASED ON NGVD 88; SOUNDINGS REFERENCE WATER LEVEL SHOWN.

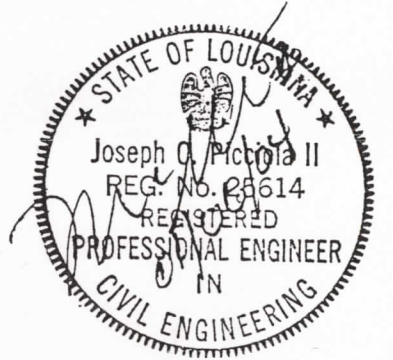
TECHNICAL NOTES:

- WARNING SIGNS WILL BE INSTALLED ON EACH COMPLETED BARRICADE AND WILL BE FACING AWAY FROM THE PLUG AS SHOWN ON THE DRAWINGS. SIGNS SHALL CONFORM TO COAST GUARD STANDARD 33CFR 330.4 (a) (1). EACH WARNING SIGN SHALL HAVE A 2" ORANGE BORDER OF RETROFLECTIVE MATERIAL. LETTERING WILL BE BLACK ON A FIELD OF RETROFLECTIVE MATERIAL.
- IN ADDITION TO WARNING SIGNS, RETROFLECTIVE TAPE SHALL BE WRAPPED AROUND EACH PIPE BETWEEN PILINGS AS SHOWN ON PLANS.
- NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE WARNING SIGN AND GALVANIZED BOLTS AT ALL POINTS OF CONTACT.
- THE CONTRACTOR IS NOTIFIED THAT THE WORK SITE IS ACCESSED THROUGH THE ATCHAFALAYA DELTA WILDLIFE MANAGEMENT AREA UNDER THE JURISDICTION OF THE LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES. ALL PERSONNEL SHALL ABIDE BY THE MANAGEMENT AREA RULES AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT AREA.
- THE CONTRACTOR IS NOTIFIED THAT THE PROJECT SITE IS TOTALLY ON OR ADJACENT TO PRIVATE OR STATE PROPERTY. EXTREME CAUTION SHALL BE EXERCISED IN PROTECTION OF PROPERTY, HABITAT AND WILDLIFE FROM DAMAGE OR HARM.
- THE CONTRACTOR IS NOTIFIED THAT HE WILL BE CONDUCTING HIS OPERATIONS IN THE VICINITY OF UTILITIES, PIPELINES, FLOWLINES, OIL AND GAS STRUCTURES AND OTHER MINERAL OPERATIONS. THE CONTRACTOR SHALL LOCATE ALL SUCH STRUCTURES IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- A LISTING OF ALL COMPANIES KNOWN TO BE CONDUCTING MINERAL OPERATIONS AND HAVE ACTIVE WELLS AND/OR PIPELINES IN THE VICINITY WILL BE PROVIDED FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHETHER THERE ARE OTHERS. LOUISIANA ONE CALL CAN BE CONTACTED AT 1-800-272-3020.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS 48 HOURS IN ADVANCE OF THE WORK. IF NECESSARY ALL PIPELINES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR USING THE COORDINATES GIVEN. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE PILE DRIVER TO AVOID DRIVING PILING IN RESTRICTED AREAS.

LAND MANAGER:

ALLAN ENSMINGER (337) 462-0762



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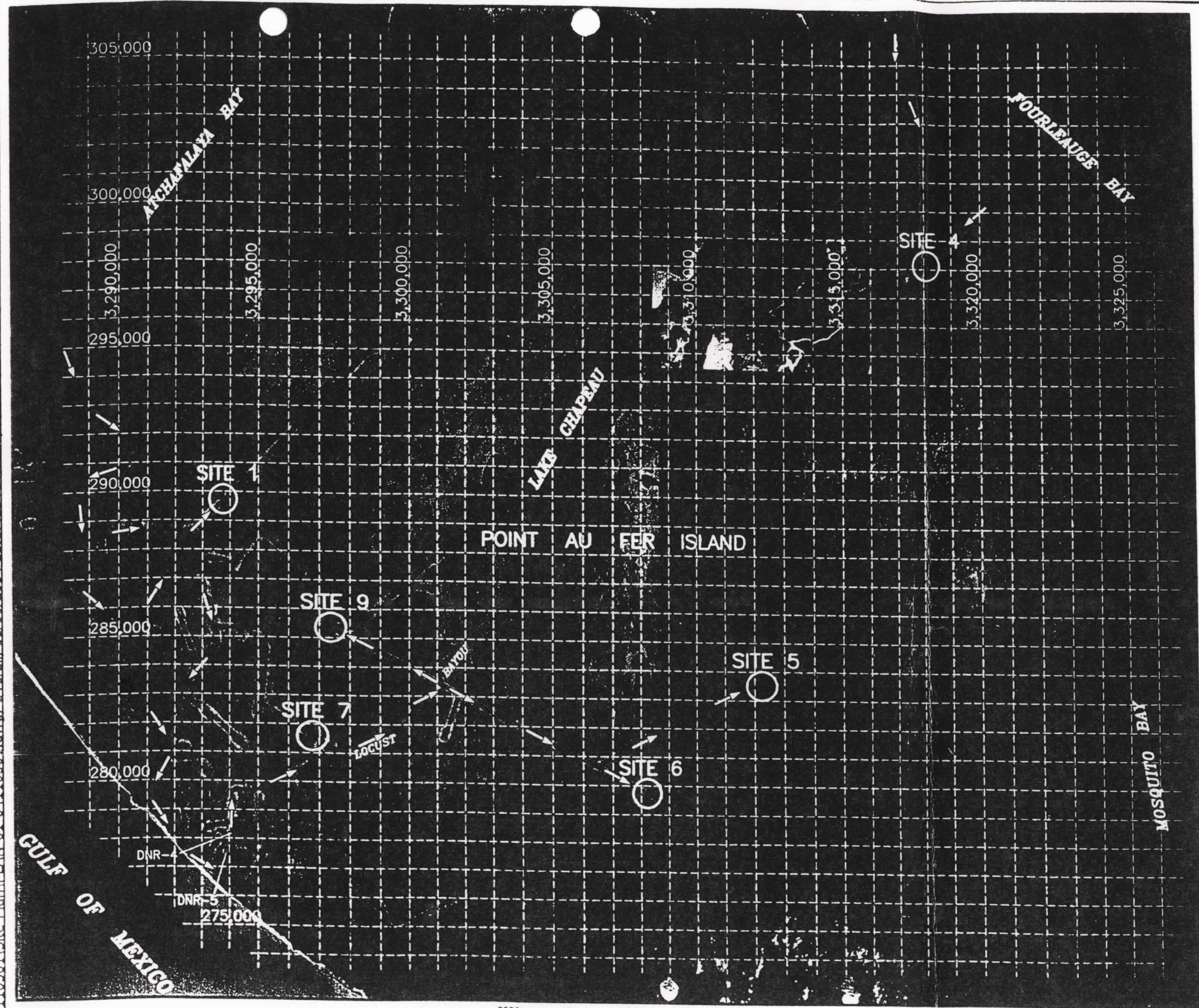
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| REV. DATE | REMARKS | BY |
| STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION | | |
| TE-28 LAKE CHAPEAU WARNING BUOY REPLACEMENT | | |
| GENERAL NOTES AND ESTIMATED QUANTITIES | | |
| PICCOLA & ASSOCIATES, INC. CIVIL ENGR., MARAL ARCHITECTS, MARINE ENGINEERS, LAND SURVEYORS P.O. BOX 887 CUT OFF, LA 70348 PHONE (504) 632-5788 FAX (504) 632-2407 | | |
| DESIGNED: J.C.P. | BOULE: NONE | SHEET NO. |
| DRAWN: L.M.C. | DATE: APRIL 27, 2003 | 2 of 10 |
| CHECKED: J.C.P. | | |

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DESCRIPTION OF THE BENCHMARK ON WHICH THE SURVEY IS BASED:

MON. #1 (HESTER CANAL), 4" ALUM. DISK ON TOP OF 20' STAINLESS ROD. ROD & DISK SET INSIDE OF A 6"x6" P.V.C. PIPE DRIVEN TO 15" ABOVE TOP OF SPOIL BANK. SURROUNDED BY CONCRETE STAMPED "LA DNR CRD TE-22/24 G.P.S. #1"
 INFORMATION SUPPLIED BY T. BAKER SMITH & SON, INC. (BK. #2243, PG. #5)

DESCRIPTION OF CONTROL USED ON THIS JOB:

DNR-4 = CROSS-MARK ON CONC. PLATFORM
 DNR-5 = CROSS-MARK ON CONC. PLATFORM

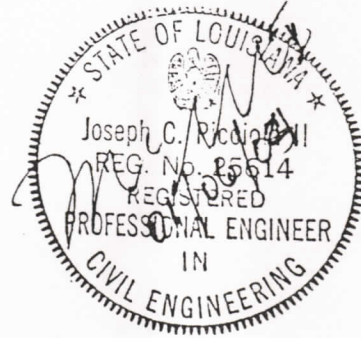
| DESCRIPTION | LATITUDE (NAD 1983) | LONGITUDE (NAD 1983) | X (NAD 1983) | Y (NAD 1983) | ELEVATION (N.A.V.D) (VERT. 1988) |
|----------------------|---------------------|----------------------|-----------------|---------------|----------------------------------|
| MON. #1 HESTER CANAL | 29°15'30.13080" | 91°11'12.92542" | 3,327,521.21921 | 275,827.52598 | 2.188' |
| DNR-4 | 29°15'53.89953" | 91°17'29.28324" | 3,294,184.81274 | 278,201.11664 | 8.164' |
| DNR-5 | 29°15'47.85744" | 91°17'32.21430" | 3,293,923.44575 | 277,590.68569 | 9.064' |

GEOGRAPHIC LOCATION OF SURVEY CONTROL POINTS

NOTES: CONTROL POINTS ARE 1/2"x5" LONG RE-BARS DRIVEN VERTICALLY TO WITHIN 1/2" OF BEING FLUSH WITH SURFACE OF GROUND. DRAWING POINT NUMBER MATCHES SITE NUMBER.

COORDINATES REFER TO LOUISIANA SOUTH ZONE NAD 83 AND ELEVATIONS REFER TO NAVD 88

| SITE NO. | X-COORD. | Y-COORD. | ELEV. | REMARKS |
|----------|--------------|------------|-------|------------------------|
| 1 | 3,293,598.93 | 298,723.04 | 1.39 | NORTH SIDE OF WATERWAY |
| 4 | 3,318,220.71 | 297,923.68 | 1.34 | SOUTH SIDE OF WATERWAY |
| 5 | 3,312,130.68 | 283,531.24 | 2.08 | WEST SIDE OF WATERWAY |
| 6 | 3,308,133.92 | 279,687.34 | 1.61 | SOUTH SIDE OF WATERWAY |
| 7 | 3,296,770.11 | 281,469.97 | 1.39 | SOUTH SIDE OF WATERWAY |
| 9 | 3,297,360.45 | 285,240.30 | 2.54 | SOUTH SIDE OF WATERWAY |



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STATE OF LOUISIANA
 DEPARTMENT OF NATURAL RESOURCES
 COASTAL RESTORATION DIVISION

TE-28 LAKE CHAPEAU
 WARNING BUOY REPLACEMENT
 OVERALL PROJECT SITE PLAN

PICCIOLA & ASSOCIATES, INC.
 CIVIL ENG., MAR. ARCHITECTS, MARINE ENGINEERS, LAND SURVEYORS
 P.O. BOX 887 COTY OFF, LA. 70346
 PHONE (860) 632-6788 FAX (860) 632-2407

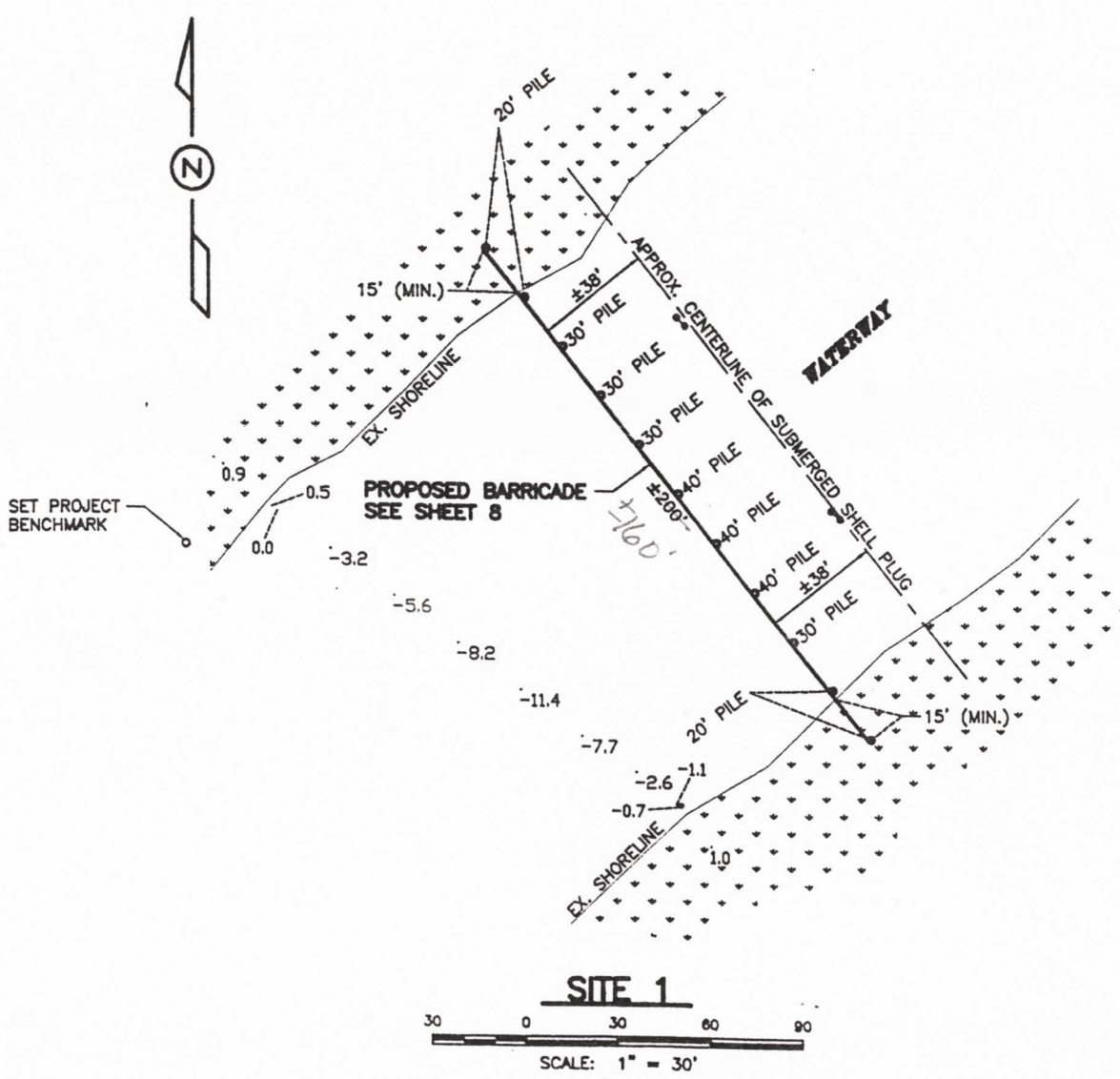
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| DESIGNED: J.C.P. | SCALE: AS SHOWN | SHEET NO. |
| DATE: APRIL 27, 2003 | | 3 of 10 |

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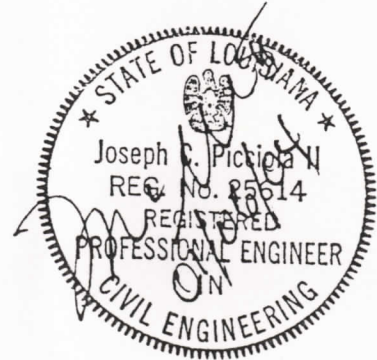


LEGEND:

== EXISTING WARNING SIGNS (TO REMAIN)

GENERAL NOTES:

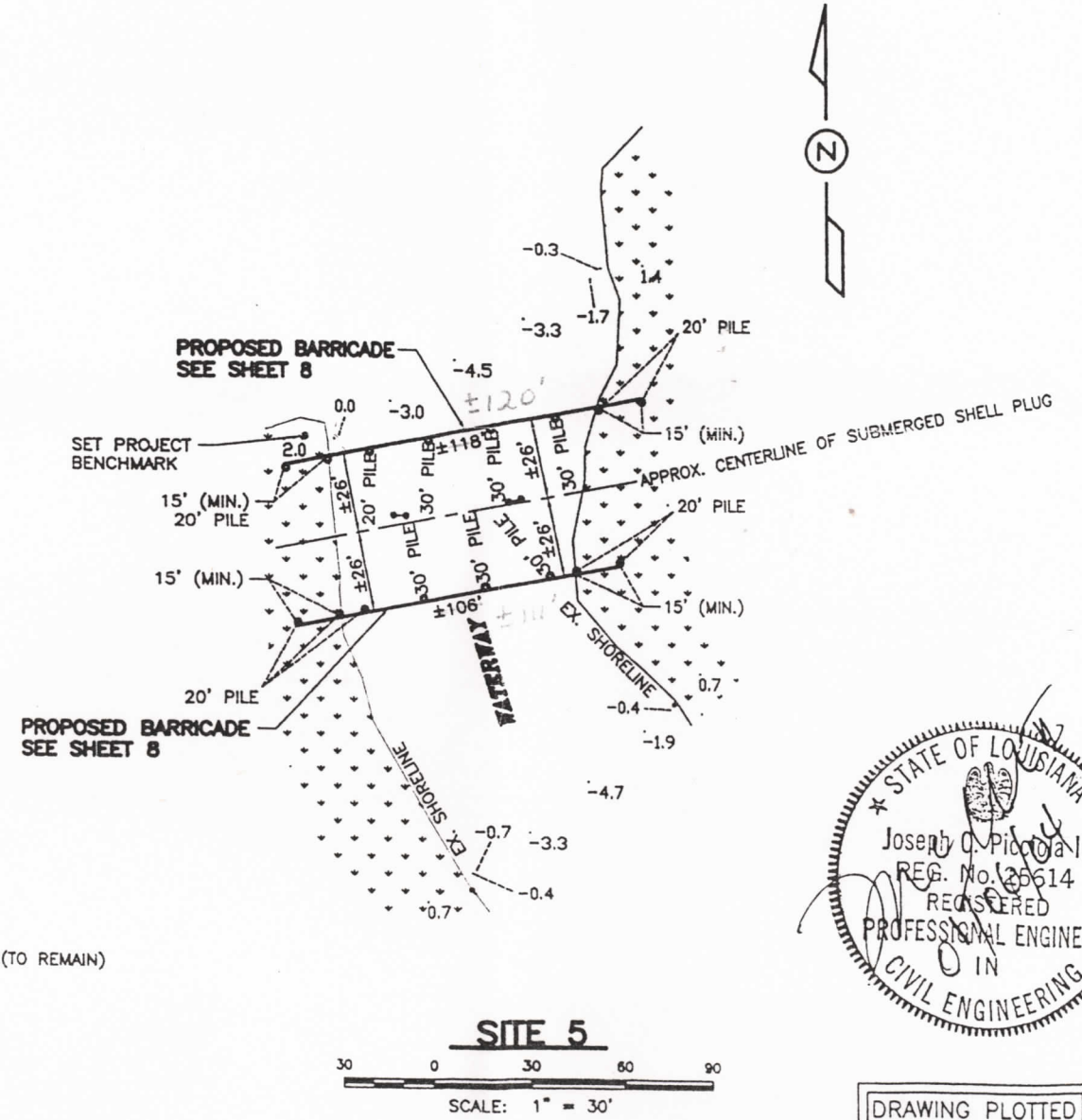
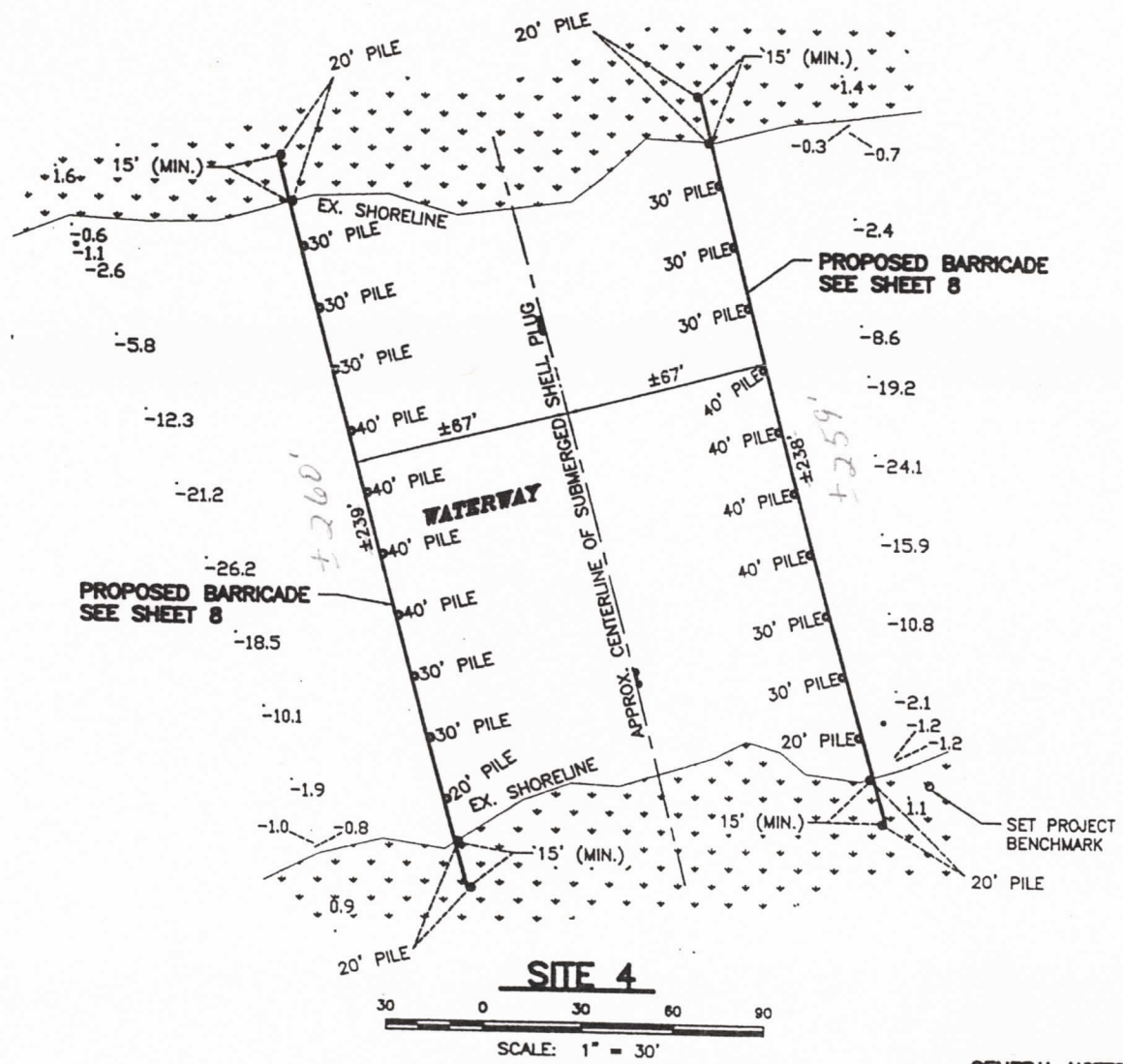
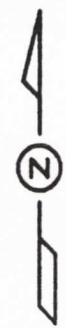
1. CONTRACTOR SHALL NOT DISTURB OR IN ANY WAY DAMAGE THE EXISTING SHELL PLUG AT EACH SITE WHILE CONSTRUCTING BARRICADES.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING SHELL PLUG TOE BEFORE FINAL LOCATION OF BARRICADE IS DETERMINED.
3. CONTRACTOR SHALL NOT REMOVE OR DISTURB THE EXISTING WARNING SIGNS THAT ARE INSTALLED ON THE EXISTING SHELL PLUGS.
4. CONTRACTOR SHALL REMOVE THE EXISTING WARNING BUOY UNITS AT EACH SITE. THIS INCLUDES THE BUOYS, CABLES AND PIPES THAT WERE INSTALLED TO RETAIN THE BUOYS.
5. ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH TITLE 33, PART VII, SUB-PART 1 (SOLID WASTE) OF THE LOUISIANA ENVIRONMENTAL REGULATORY CODE, LATEST EDITION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF HIS METHOD AND LOCATION OF DISPOSAL.
6. PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY SUB-SURFACE PIPELINES OR STRUCTURES THAT MAY BE AT OR NEAR EACH SITE. CONTRACTOR SHALL WORK CLOSELY WITH ANY COMPANY THAT MAY HAVE SUCH PIPELINES OR STRUCTURES IN THE AREA. LOUISIANA ONE CALL CAN BE CONTACTED AT 1-800-272-3020.
7. SEE SHEET 2 FOR ADDITIONAL GENERAL AND TECHNICAL NOTES.



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| STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION | | | |
| TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT | | | |
| PLAN VIEW - SITE 1 | | | |
| PICCIOLA & ASSOCIATES, INC. CIVIL ENG., ARCHITECTS, SURVEYORS, LAND SURVEYORS P.O. BOX 587 CUT OFF, LA. 70348 PHONE (504) 638-5786 FAX (504) 638-2407 | | | |
| DESIGNED: | J.C.P. | SCALE: | AS SHOWN |
| DRAWN: | L.M.C. | DATE: | APRIL 27, 2003 |
| CHECKED: | J.C.P. | SHEET NO.: | 4 of 10 |

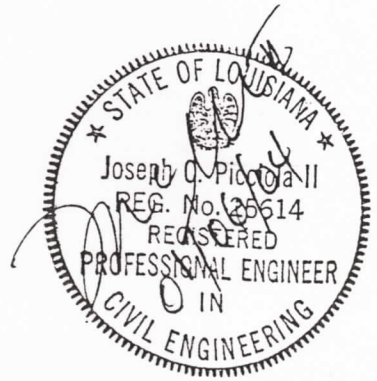
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LEGEND:
 -- EXISTING WARNING SIGNS (TO REMAIN)

GENERAL NOTES:

1. CONTRACTOR SHALL NOT DISTURB OR IN ANY WAY DAMAGE THE EXISTING SHELL PLUG AT EACH SITE WHILE CONSTRUCTING BARRICADES.
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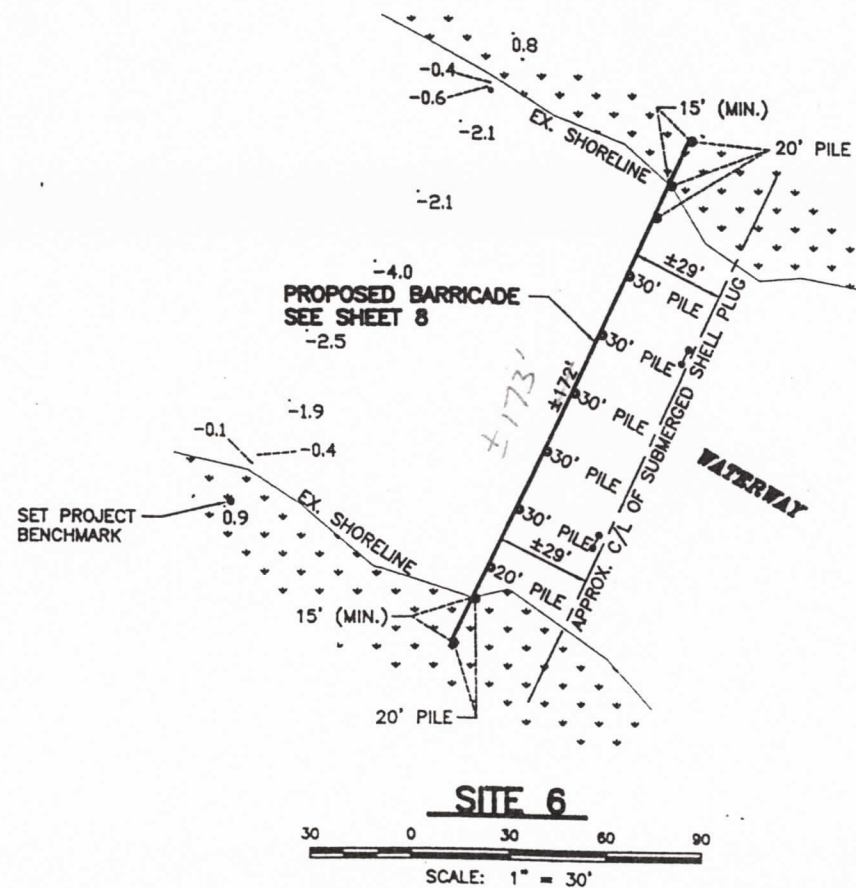
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| STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION | | | |
| TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT PLAN VIEW - SITE 4 AND SITE 5 | | | |
| PICCOLA & ASSOCIATES, INC. <small>CIVIL ENGR., MAR. ARCHTCT., MAR. ENGRS., LAND SURVEYORS</small> <small>P.O. BOX 607 CUT OFF, LA 70348</small> <small>PHONE (988) 632-6766 FAX (988) 632-2407</small> | | | |
| DESIGNED: | J.C.P. | SCALE: | AS SHOWN |
| DETAILED: | L.M.C. | DATE: | APRIL 27, 2003 |
| CHECKED: | J.C.P. | SHEET NO.: | 8 of 10 |

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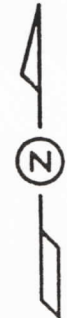
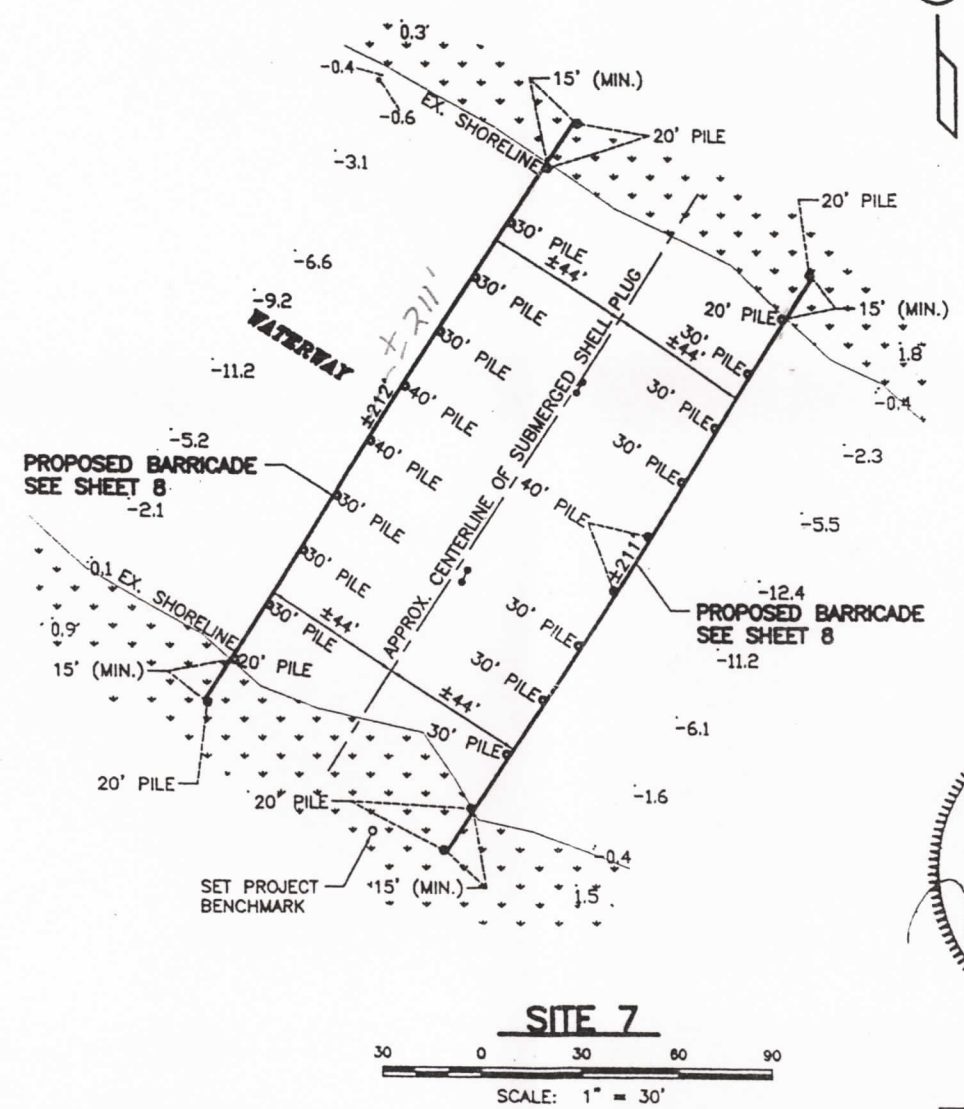
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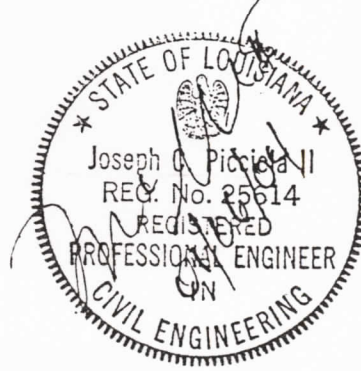


LEGEND:
 ●● EXISTING WARNING SIGNS (TO REMAIN)



GENERAL NOTES:

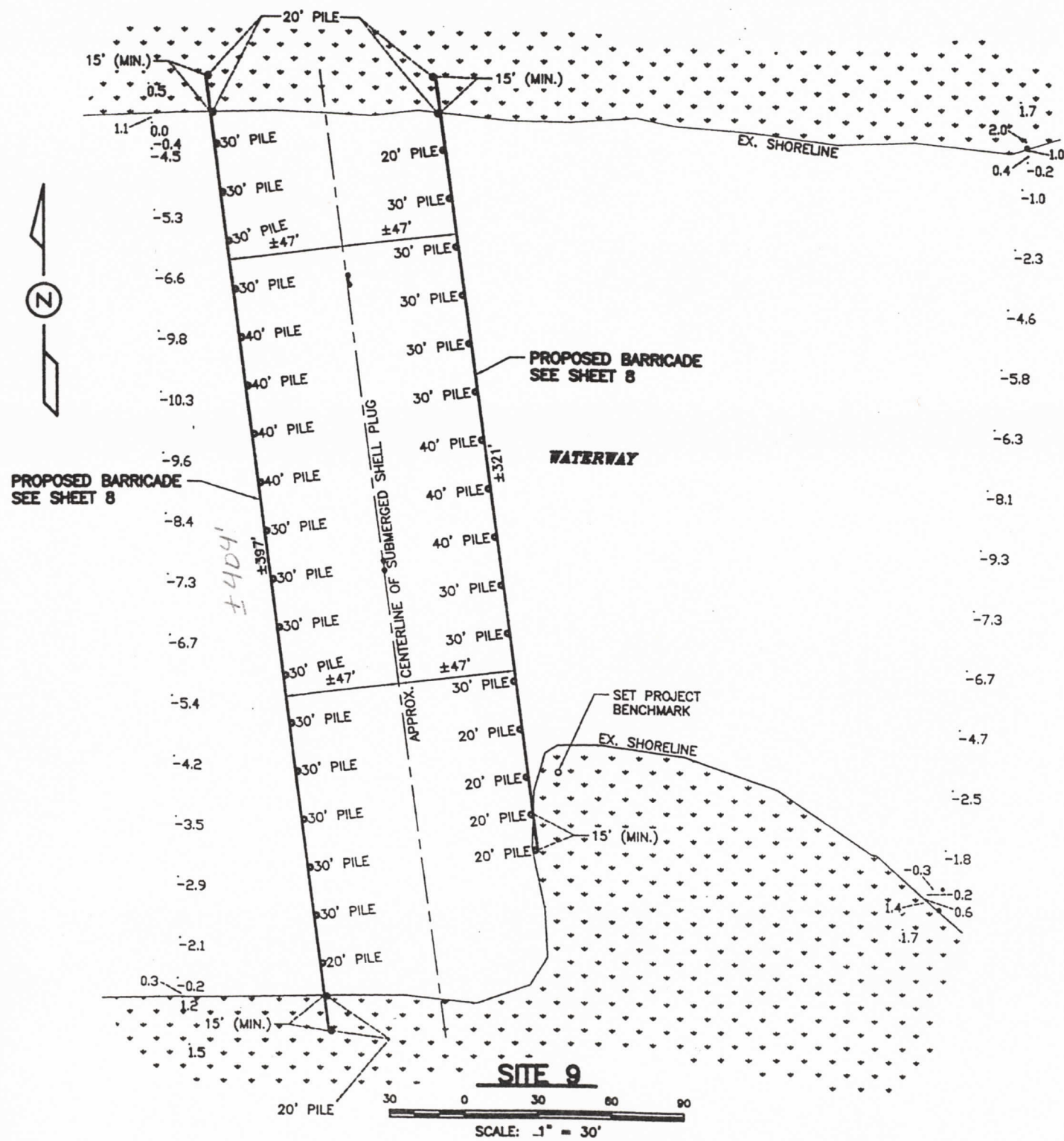
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7. SEE SHEET 2 FOR ADDITIONAL GENERAL AND TECHNICAL NOTES.



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| STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION | | | |
| TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT | | | |
| PLAN VIEW - SITE 6 AND SITE 7 | | | |
| PICCOLA & ASSOCIATES, INC. <small>CIVIL ENGR., MARIN. ARCHITECTS, MARINE ENGINEERS, LAND SURVEYORS</small> <small>P.O. BOX 887 CUT OFF, LA. 70348</small> <small>PHONE (985) 632-6786 FAX (985) 632-2407</small> | | | |
| DESIGNED: | J.C.P. | SCALE: | AS SHOWN |
| DATE: | L.M.C. | DATE: | APRIL 27, 2003 |
| CHECKED: | J.C.P. | SHEET NO.: | 8 of 10 |

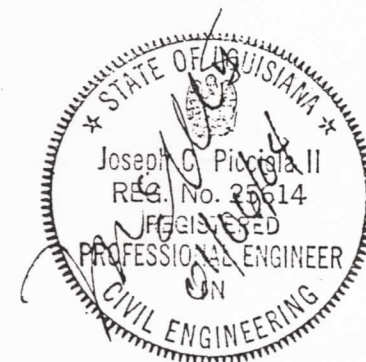
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LEGEND:
 ●● EXISTING WARNING SIGNS (TO REMAIN)

GENERAL NOTES:

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| STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION | | | |
| TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT | | | |
| PLAN VIEW - SITE 9 | | | |
| PICCIOLA & ASSOCIATES, INC. CIVIL ENGR., MARINE ARCHITECTS, MARINE ENGINEERS, LAND SURVEYORS P.O. BOX 987 OUT OFF, LA. 70340 PHONE (985) 832-8798 FAX (985) 832-3407 | | | |
| DESIGNED: | J.C.P. | SCALE: | AS SHOWN |
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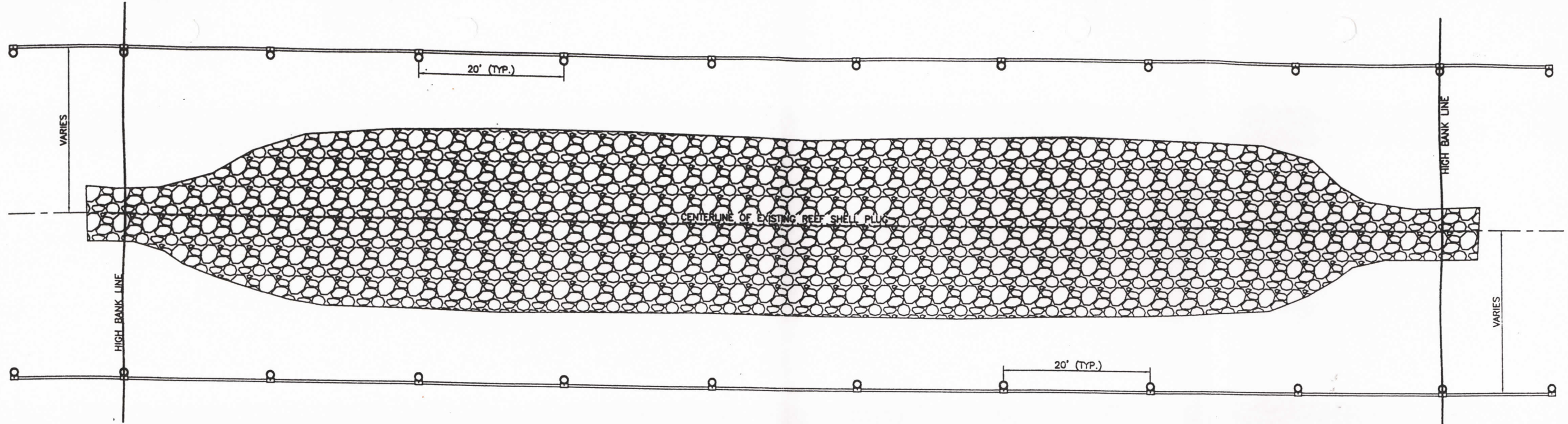
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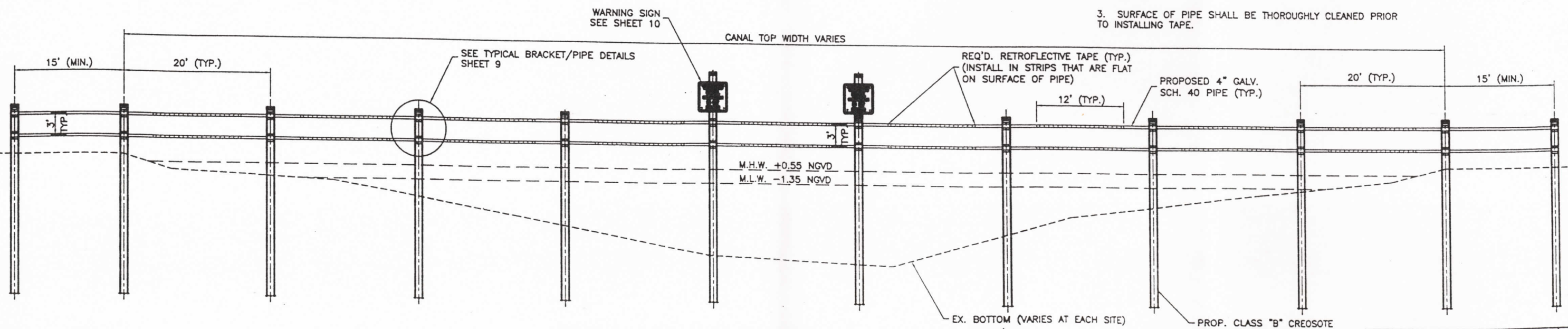
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PROPOSED BARRICADE ADJACENT TO SHELL PLUG (PLAN VIEW)
DRAWING NOT TO SCALE

RETROFLECTIVE TAPE NOTES:

1. CONTRACTOR SHALL INSTALL RED 2"x5 MIL (MIN.) VINYL RETROFLECTIVE TAPE MEETING FEDERAL SPEC L-S-300, CLASS I AND FP-79 TYPE II REQUIREMENTS AND HAVING A MIN. REFLECTIVITY OF 50 CANDLE POWER.
2. TWO INCH STRIPS SHALL BE INSTALLED IN STRIPS THAT ARE FLAT ON SURFACE OF PIPE AND SHALL BE PLACED AT 6" ON CENTER.
3. SURFACE OF PIPE SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLING TAPE.



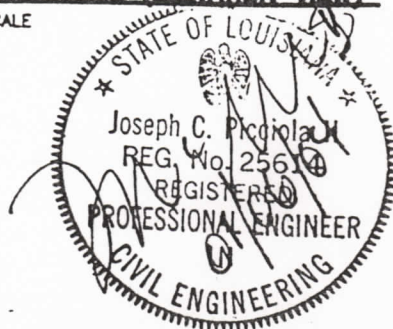
PROPOSED BARRICADE ADJACENT TO SHELL PLUG (ELEVATION VIEW)
DRAWING NOT TO SCALE

PROP. CLASS "B" CREOSOTE TIMBER PILING (20 lb. RETENTION) WITH A MINIMUM OF 20' PENETRATION INTO THE GROUND OR BELOW THE MUD LINE. LENGTH OF PILING WILL VARY AND WILL BE DETERMINED BY LOCATION OF PLACEMENT AND DEPTH OF WATER.

| WARNING SIGN DATA | |
|-------------------|----------------|
| SITE | SIGNS REQUIRED |
| 1 | 2 |
| 4 | 4 |
| 5 | 2 |
| 6 | 2 |
| 7 | 4 |
| 9 | 4 |

WARNING SIGN NOTES:

1. SIGNS SHALL BE INSTALLED SO THAT MAXIMUM VIEWING EFFECT WILL BE ACHIEVED BY ANY APPROACHING VESSEL.
2. FINAL PLACEMENT AS WELL AS NUMBER OF WARNING SIGNS AT EACH SITE SHALL BE APPROVED BY DNR REPRESENTATIVE AND PROJECT ENGINEER.
3. EXISTING WARNING SIGNS SHALL REMAIN IN PLACE.
4. ADDITIONAL FOOTAGE WILL BE REQUIRED FOR PILING THAT SIGNS WILL BE ATTACHED TO SO THAT MINIMUM PENETRATION CAN STILL BE ACHIEVED.



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STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL RESTORATION DIVISION

TE-26 LAKE CHAPEAU
WARNING BUOY REPLACEMENT

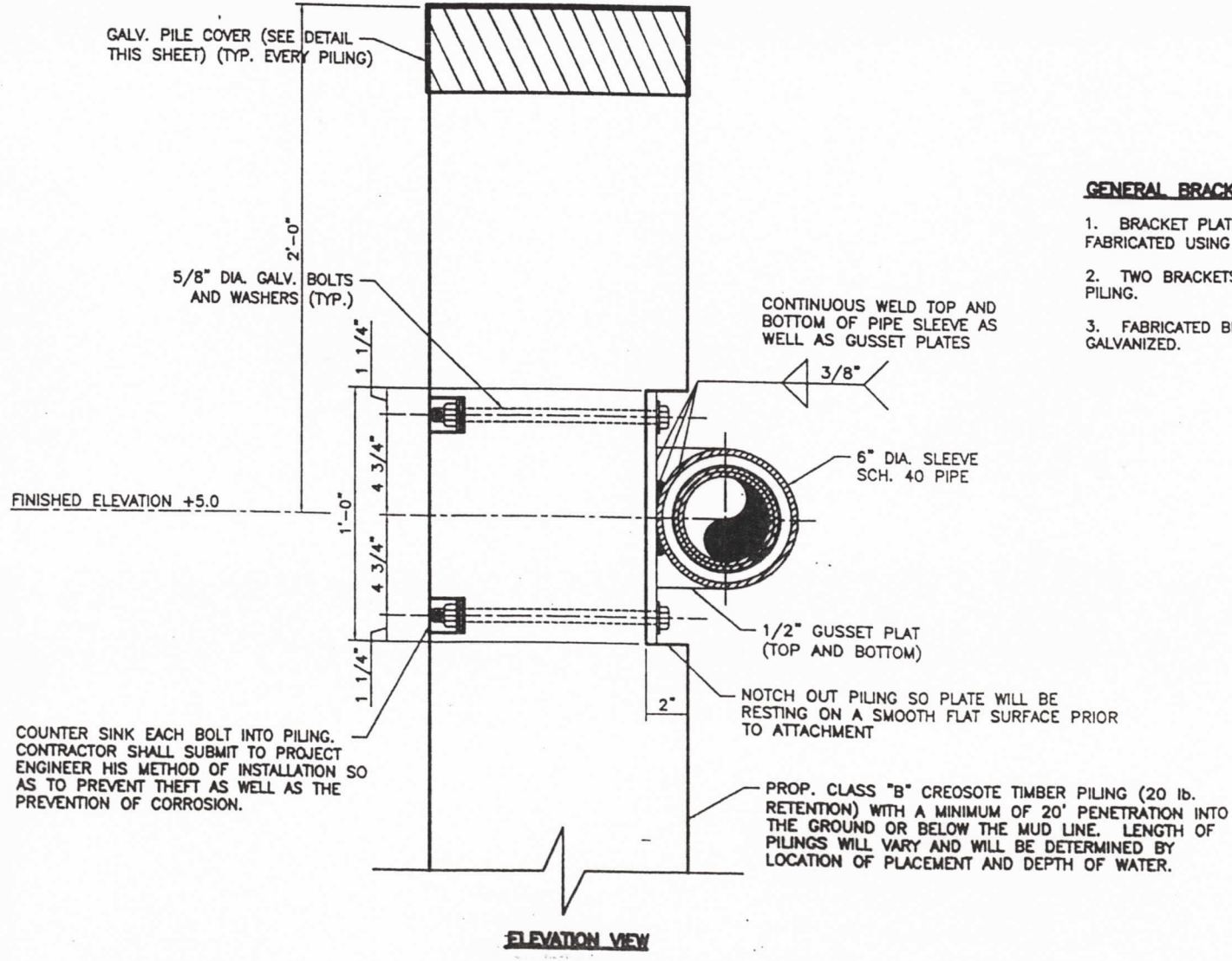
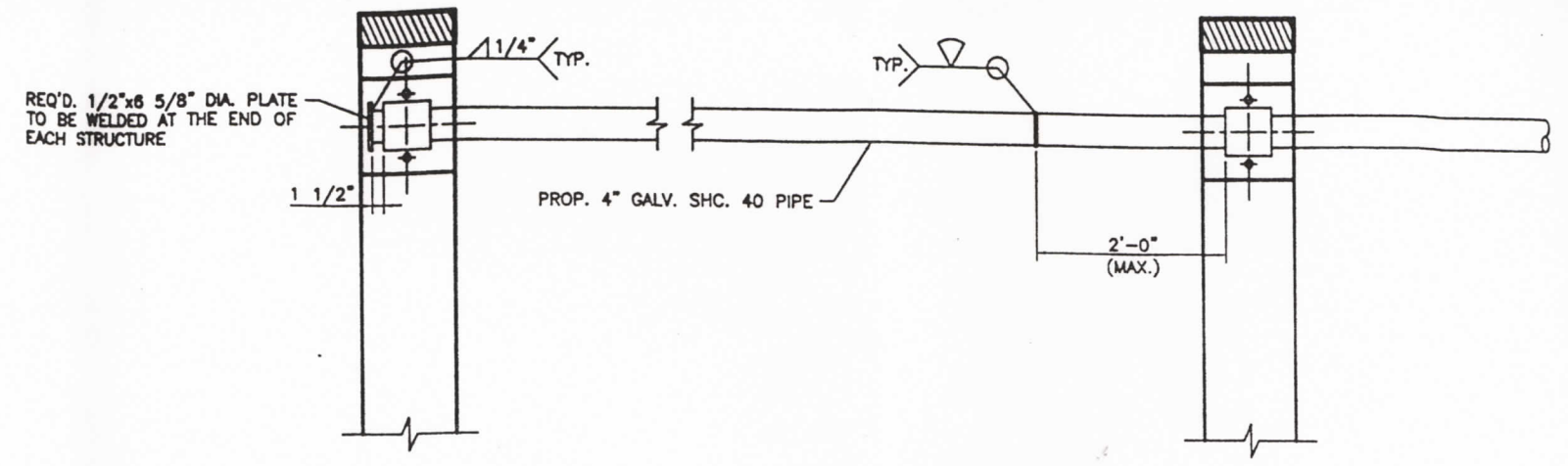
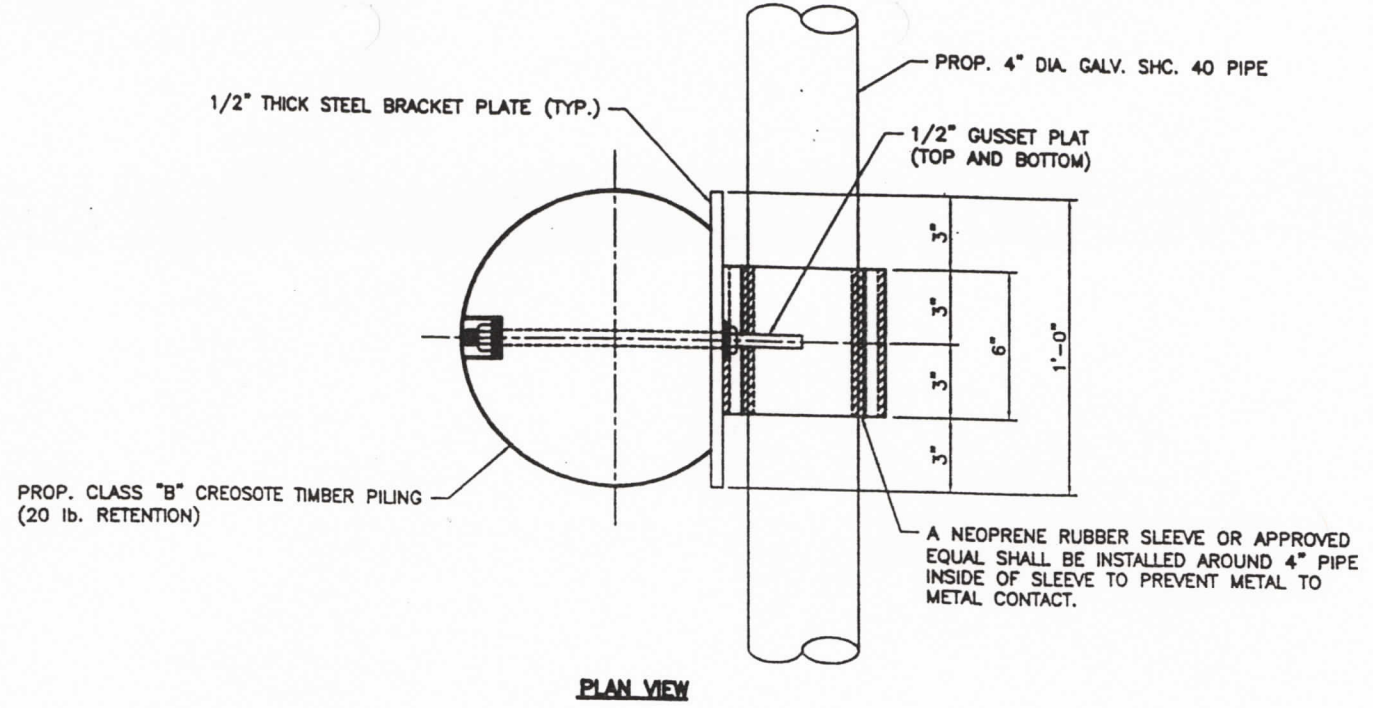
TYPICAL BARRICADE -- PLAN & ELEVATION VIEWS

PICCIOLA & ASSOCIATES, INC.
CIVIL ENGR., MARINE ARCHITECTS, MARINE ENGINEERS, LAND SURVEYORS
P.O. BOX 887 CUT OFF, LA 70348
PHONE (860) 638-6788 FAX (860) 638-2407

| | | |
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| DESIGNED: J.C.P. | CHECKED: AS SHOWN | SHEET NO. |
| DETAILED: L.M.C. | DATE: APRIL 27, 2003 | 8 of 10 |
| CHECKED: J.C.P. | | |

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GENERAL BRACKET NOTES:

- BRACKET PLATE AND GUSSET PLATE SHALL BE FABRICATED USING 1/2" THICK STEEL A-36.
- TWO BRACKETS WILL BE REQUIRED AT EACH PILING.
- FABRICATED BRACKETS SHALL BE HOT DIPPED GALVANIZED.

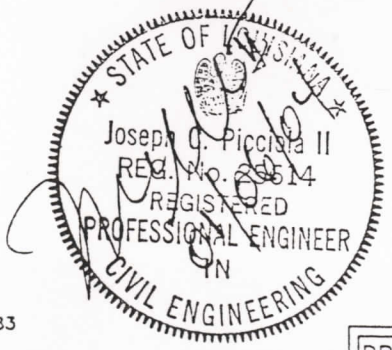
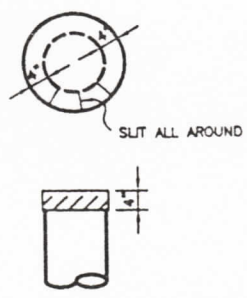
GENERAL WELDING NOTES:

- PRIOR TO WELDING PIPE ALL ENDS SHALL BE BEVELED TO ACCOMMODATE WELDING BEAD. THIS INCLUDES THE 6" DIA. END PLATES.
- ALL WELD LOCATIONS AS WELL AS ANY DAMAGE TO GALVANIZED BRACKETS SHALL BE PROPERLY BRUSHED TO REMOVE ANY RUST OR SLAG. AFTER METAL HAS BEEN PREPARED, NECESSARY COATS OF PRIMER SHALL BE APPLIED PRIOR TO APPLYING THE NECESSARY COATS OF COLD GALVANIZE. REFER TO SPECIFICATIONS FOR DETAILED PAINTING PROCEDURES.

NOTES:

PLACE TWO LAYERS OF HEAVY CANVAS SIZE 20"x20" SATURATED WITH KARNAK #83 OVER TOP OF ALL PILES. THEN 24"x24" GALVANIZED SHEET METAL NO. 26 GA. PLACED OVER TOP OF ALL PILES AND BENT AS SHOWN BY DOTTED LINES AND NAILED TO THE PILES WITH 2" GALVANIZED ROOFING NAILS.

MARK OUTLINE OF INDIVIDUAL PILE TOP AND CUT GALV. SHEET METAL 4" OUTSIDE PILE LINE, SLIT METAL DIAGONALLY @ 4" SPACES AS SHOWN.



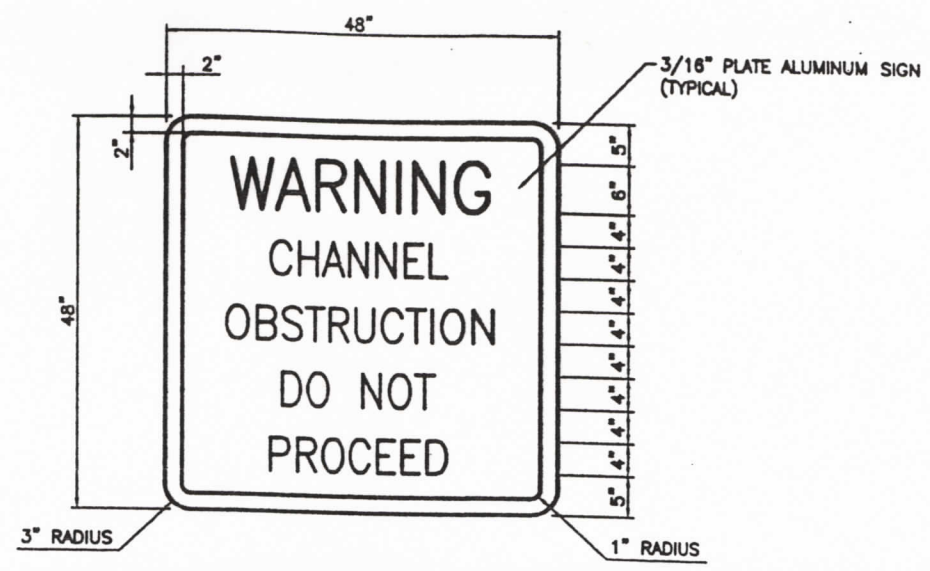
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| STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION | | | |
| TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT | | | |
| TYPICAL BRACKET/PIPE DETAILS | | | |
| PICCOLA & ASSOCIATES, INC. CIVIL ENGR., MARINE ARCHITECTS, MARINE ENGINEERS, LAND SURVEYORS P.O. BOX 887 CUT OFF, LA. 70348 PHONE (985) 632-5766 FAX (985) 632-2407 | | | |
| DESIGNED: | J.C.P. | SCALE: | AS SHOWN |
| DATE: | L.M.C. | DATE: | APRIL 27, 2003 |
| CHECKED: | J.C.P. | SHEET NO.: | 9 of 10 |

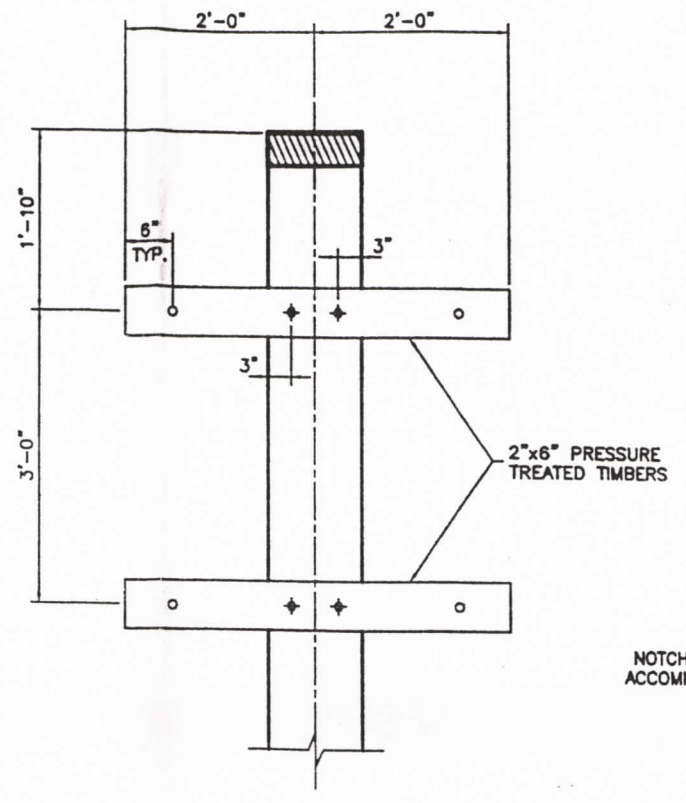
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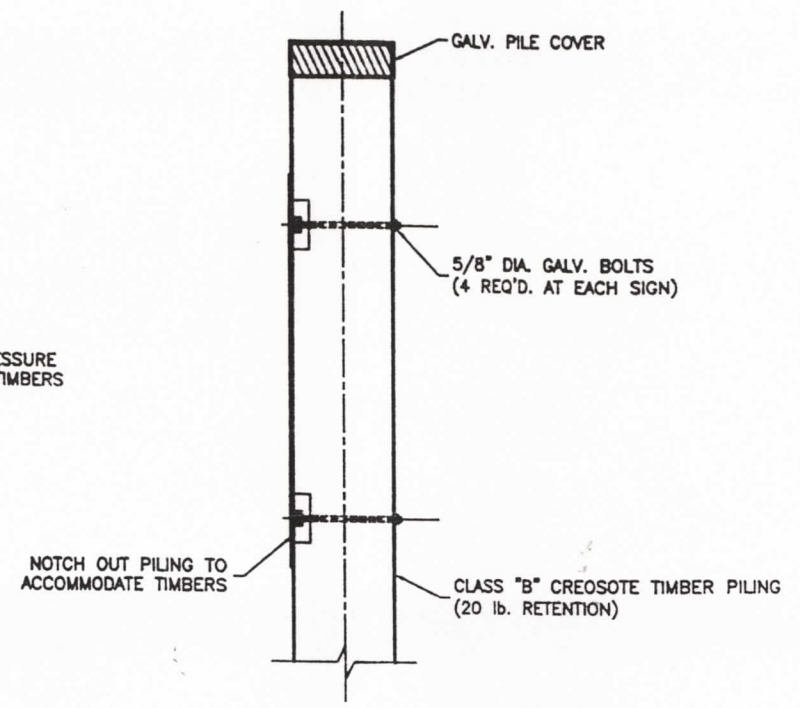
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SIGN DETAIL
SCALE: 1" = 1'-0"

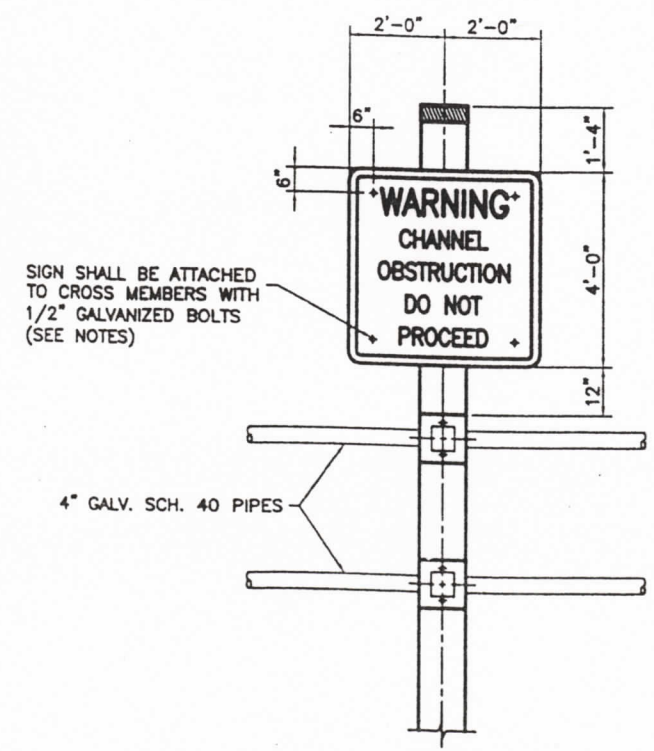


FRONT VIEW
SCALE: 1" = 1'-0"



SIDE VIEW
SCALE: 1" = 1'-0"

TYPICAL SIGN SUPPORT DETAIL

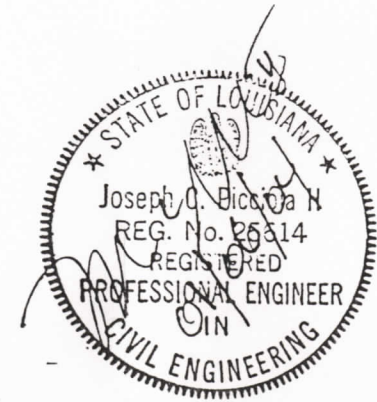


TYPICAL ELEVATION VIEW
SCALE: 1/2" = 1'-0"

SIGN SHALL BE ATTACHED TO CROSS MEMBERS WITH 1/2" GALVANIZED BOLTS (SEE NOTES)

PERMANENT SIGN NOTES:

1. REFERENCES HEREIN TO THE "STANDARD SPECIFICATIONS" REFER TO THE "LA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES", AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
2. WARNING SIGNS SHALL BE CONSTRUCTED USING 3/16" PLATE ALUMINUM.
3. THE 2" BORDER ON THE WARNING SIGN WILL BE A RETROFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A RETROFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. WARNING SIGNS WILL BE PLACED ON THE UPSTREAM AND DOWNSTREAM SIDE OF ALL STRUCTURES. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS; IN ACCORDANCE WITH 33 CFR 330.4 (a) (1).
4. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE GALVANIZED BOLTS AT ALL POINTS OF CONTACT.
5. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH SECTION 811.5 OF THE LOUISIANA STANDARD SPECIFICATIONS.
6. SIGNS SHALL BE PLACED AT THE LOCATIONS SHOWN ON DRAWING NOS. 4, 5, 6, & 7 OR AS DIRECTED BY THE PROJECT ENGINEER.
7. EXPOSED BOLT THREADS SHALL BE EITHER TACK WELDED TO NUTS, STRIPPED, OR DAMAGED BY OTHER APPROVED METHOD TO PREVENT EASY REMOVAL.



DRAWING PLOTTED AT HALF-SCALE

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| REV. | DATE | ADDRESS COMMENTS | REMARKS | L.M.C. | BY |
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| STATE OF LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL RESTORATION DIVISION | | | | | |
| TE-26 LAKE CHAPEAU WARNING BUOY REPLACEMENT | | | | | |
| TYPICAL SIGN ATTACHMENT DETAILS | | | | | |
| PICCOLA & ASSOCIATES, INC. CIVIL ENG., MARINE ARCHITECT, MARINE ENGINEER, LAND SURVEYORS P.O. BOX 887 CUT OFF, LA. 70348 PHONE (888) 632-8786 FAX (888) 632-8407 | | | | | |
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