



## Coastal Management Program

160 N. LaSalle Street, Suite S-700 • Chicago, Illinois 60601 • <http://www.dnr.illinois.gov/cmp>

### PUBLIC NOTICE

#### **To Install a Bent Clamp Support System on the Lake County Public Water District's Raw Water Intake Pipe in Lake Michigan, in Lake County**

The Lake County Public Water District, 500 17<sup>th</sup> Street, Zion, Illinois 60099 has applied for an Illinois Coastal Management Program, Federal Consistency Determination for its proposal to install a bent clamp support system on its raw water intake pipe located on the bed of Lake Michigan in Zion, Illinois in Lake County.

The Lake County Public Water District's raw water intake pipe which was originally covered in four feet of sand is becoming exposed as sand migrates away from sections of the pipe. The applicant is concerned that the exposed pipe may shift causing damage that could interrupt water service to its customers. To stabilize the exposed portions of pipe the applicant proposes to install a bent clamp system. The proposed system consists of placing a large steel clamp around the outside of the intake pipe and driving one pile on each side of the pipe through channels in the clamp into the bed of Lake Michigan. Each clamp can support approximately 32 ft. of pipe. The top of the clamps will extend approximately 2 ft. over the crown of the intake pipes. The piles will be cut flush with the top of the clamps. Six clamps are proposed this year with others being placed in the future as needed. A location map and plans are attached to this notice.

**No work is to start on this project unless and until such a time that the permit is issued.**

Plans for the work may be seen at the Office of Water Resources, Chicago Office, Michael A. Bilandic Building, 160 N. LaSalle Street, Suite S-703, Chicago, Illinois 60601. Inquires and requests to review the plans may be directed to Jim Casey of the Chicago Office at (312) 793-5947.

You are invited to send written comments regarding the work to the Chicago Office by July 26 2013. Any comments asserting that the proposed action does not meet federal consistency must specifically reference the state law that would be violated.

June 27, 2013



8. PROJECT DESCRIPTION (Include all features):

The District's one raw water intake pipe was originally buried in at least four feet of lake bottom sand. In the last few years this sand has migrated away to the south of the pipeline causing sections of the pipe to be exposed. Rock could be placed on the pipeline where sand is missing but it is not a permanent solution. A better option is to place a bent (clamp) around the pipe, and use two piles to hold the bent system in place. Each bent system should support up to 32 feet of intake pipe. Seven such systems have been previously installed to demonstrate that the bent-pile system can be installed by a marine contractor. Based on an inspection made last fall, six additional bent systems have been fabricated and need to be placed this construction season at selected locations along the pipeline. An updated scheduled inspection of the entire pipeline will identify the critical locations for installing the additional six available pre-fabricated bents.

9. PURPOSE AND NEED OF PROJECT:

To protect the District's one raw water intake pipe in Lake Michigan. Loss (movement) of this pipe could keep the District's treatment plant from producing drinking water for 30,000 plus customers.

COMPLETE THE FOLLOWING FOUR BLOCKS IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

10. REASON(S) FOR DISCHARGE:

11. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS FOR WATERWAYS:

TYPE:

AMOUNT IN CUBIC YARDS:

12. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (See Instructions)

13. DESCRIPTION OF AVOIDANCE, MINIMIZATION AND COMPENSATION (See instructions)

14. Date activity is proposed to commence  
ASAP

Date activity is expected to be completed  
ASAP

15. Is any portion of the activity for which authorization is sought now complete? Yes  No  Month and Year the activity was completed

NOTE: If answer is "YES" give reasons in the Project Description and Remarks section. Indicate the existing work on drawings.

16. List all approvals or certification and denials received from other Federal, interstate, state, or local agencies for structures, construction, discharges or other activities described in this application. N/A

Issuing Agency	Type of Approval	Identification No.	Date of Application	Date of Approval	Date of Denial
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17. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED.

Yes  No

18. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Arlyn E. Albrecht  
Signature of Applicant or Authorized Agent

06/10/13

Date

Donald J. White  
Signature of Applicant or Authorized Agent

6/10/13

Date

\_\_\_\_\_  
Signature of Applicant or Authorized Agent

\_\_\_\_\_  
Date

Corps of Engineers  
Revised 2010

IL Dep't of Natural Resources

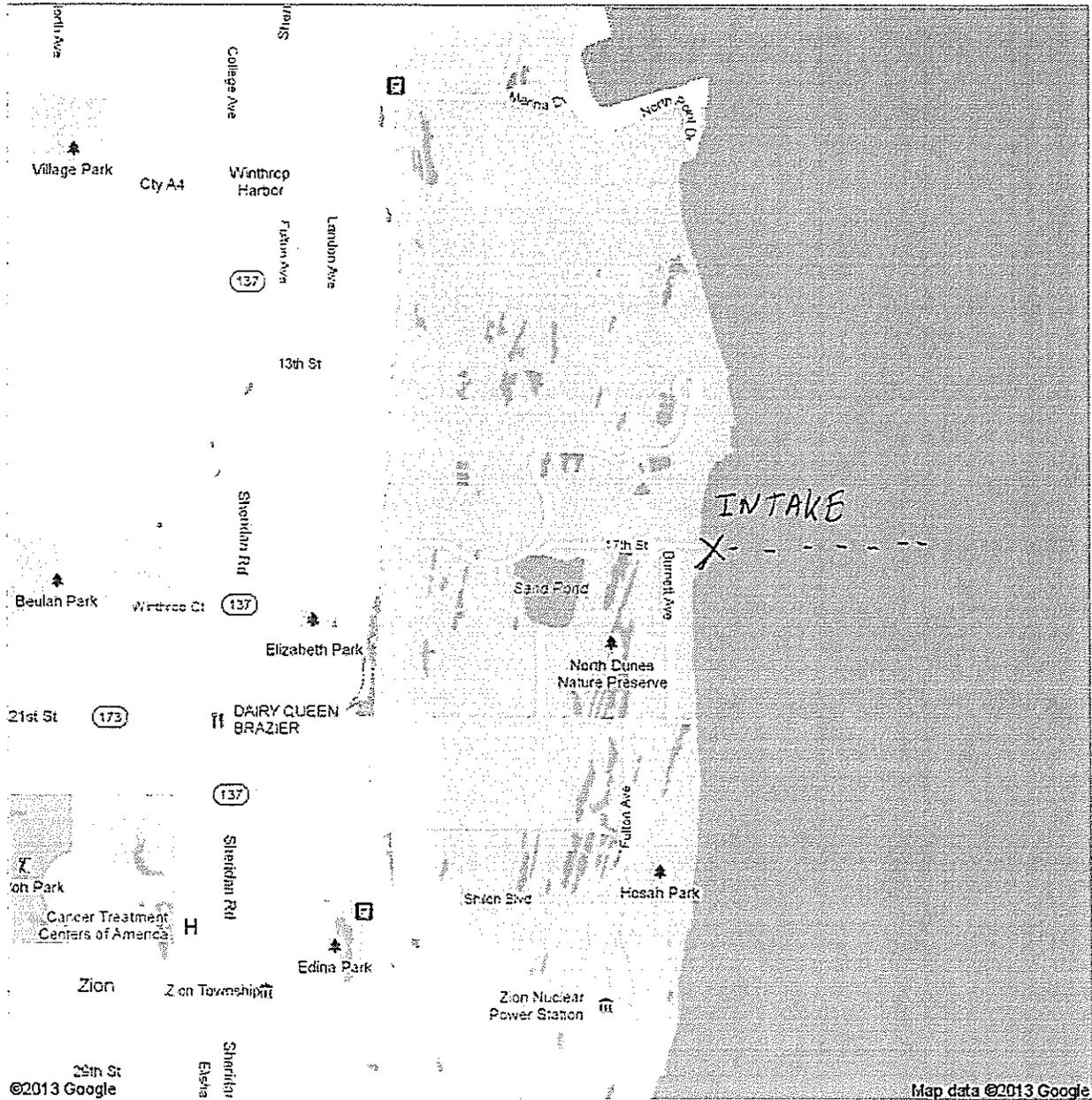
IL Environmental Protection Agency

Applicant's Copy

SEE INSTRUCTIONS FOR ADDRESS

Google

Get Google Maps on your phone  
 Text the word "GMAPS" to 466453

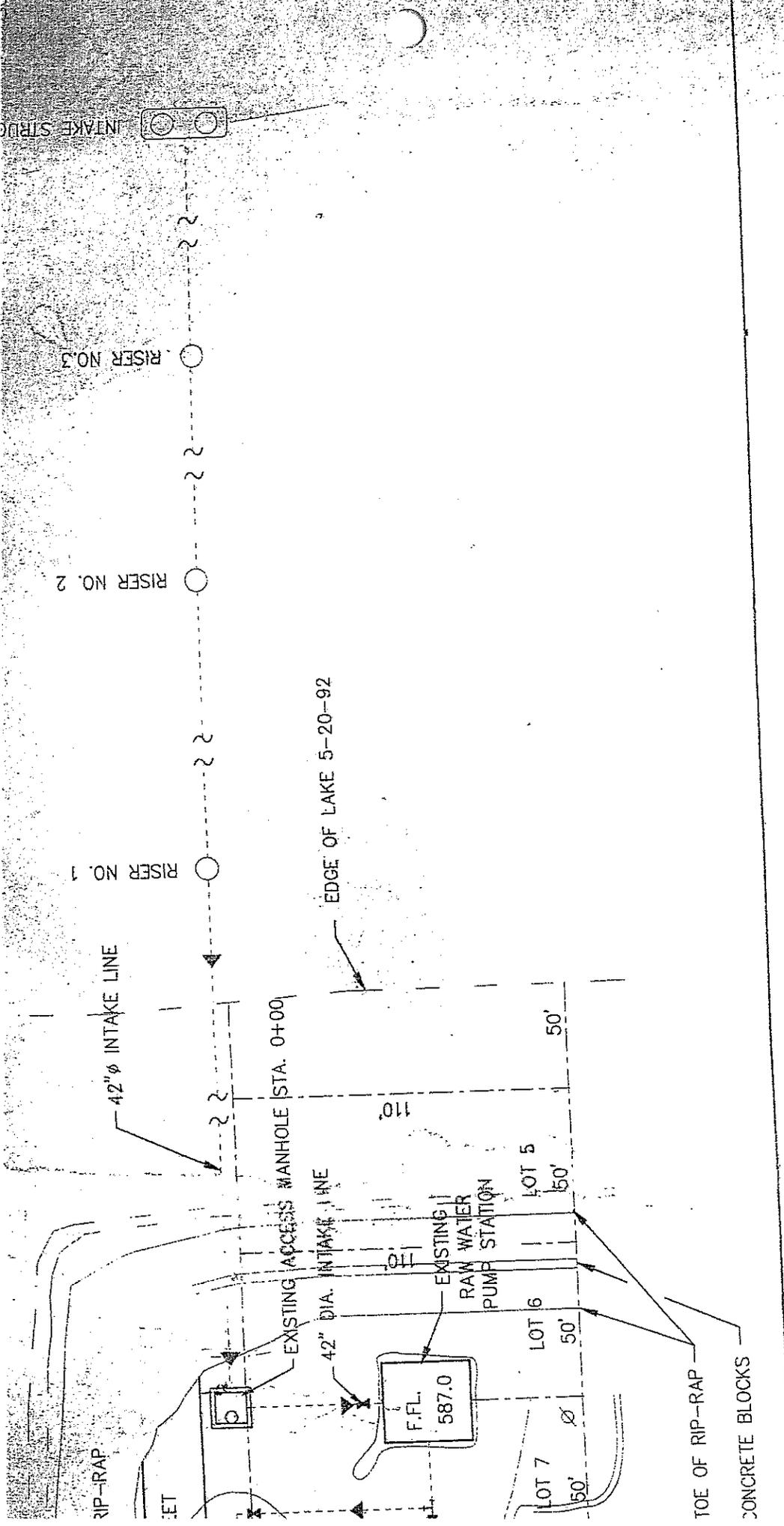
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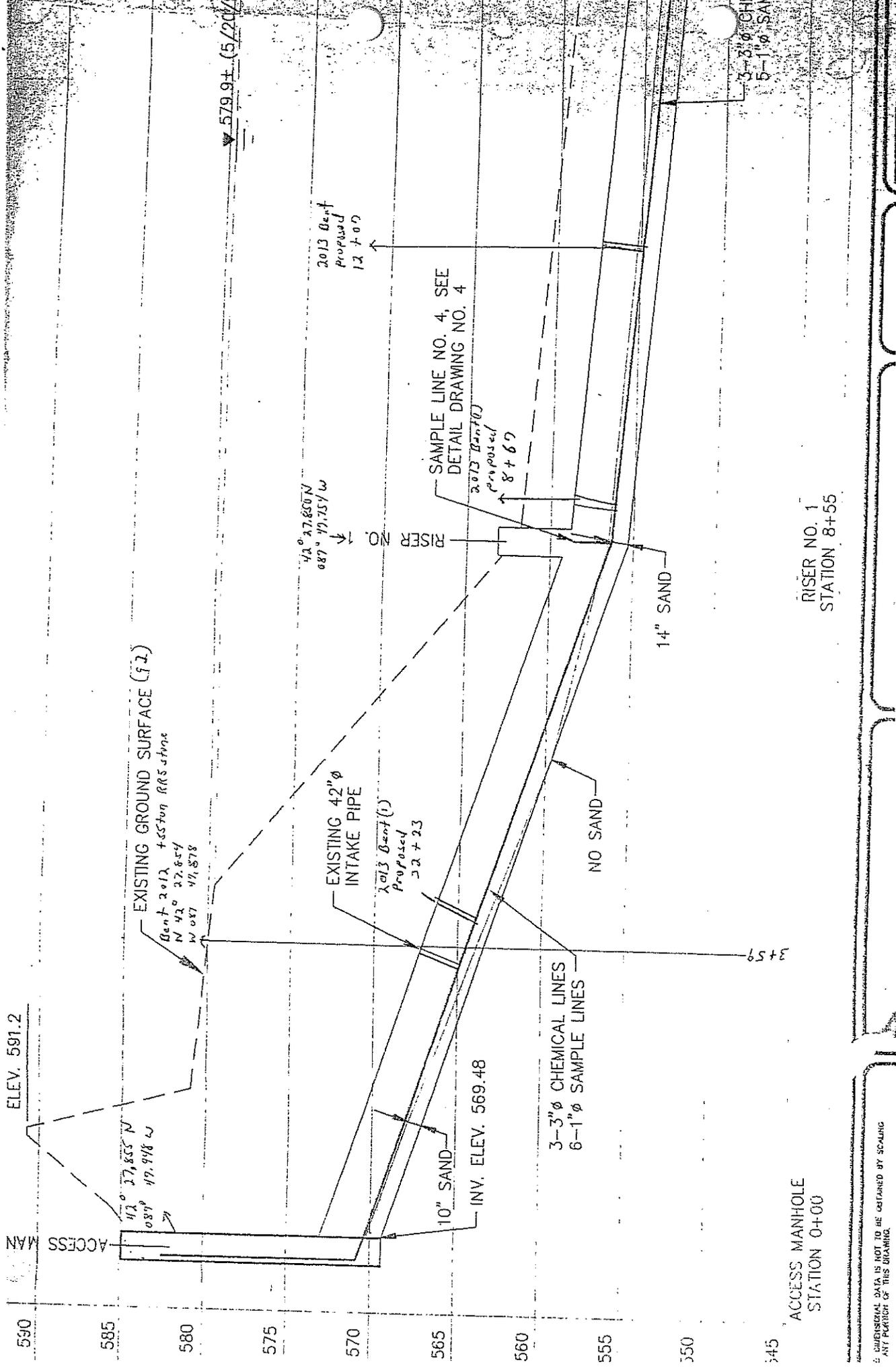
The picture shows the Bent open for lowering the Bent on the Pipeline, note The Pad Eyes on the bottom of the Pile Guide Boxes, this is where the Five Inch Channels are attached and bolted up tight to hold Bents closed and also Support the pipe. Note the holes cut through the Boxes to Bolt the Piling to the Bent.



**NOTES**

1. CONTRACTOR TO REMOVE SAND AND OF SAMPLE AND CHEMICAL LINES SHALL BE PLACED IN THE NEARSHORE LITTORAL ZONE IN LESS THAN 20 FEET
2. THE SAMPLE AND CHEMICAL LINE SHALL BE 3/8" PLASTIC WIRE TIES (NO METAL)





5. UNIVERSAL DATA IS NOT TO BE OBTAINED BY SEALING  
 ANY PORTION OF THIS DRAWING.