



**US Army Corps
of Engineers**
Philadelphia District
Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390
ATTN: CENAP-OP-R

Public Notice

Public Notice No.
CENAP-OP-R-2007-486-39

Date
AUG 01 2007

Application No.

File No.

In Reply Refer to:
REGULATORY BRANCH

This District has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: The Borough of Avalon and
New Jersey Department of Environmental Protection
Bureau of Coastal Engineering

AGENT: Thomas R. Thornton
Hatch Mott MacDonald
833 Route 9 North
P.O. Box 373
Cape May Court House, New Jersey 08210-0373

WATERWAY: Long Reach and Whale Harbor

LOCATION: Within the waterways located to the west of the Borough of Avalon, Cape May County, New Jersey.

ACTIVITY: The applicant proposes to perform maintenance dredging within the two waterways. This office previously approved dredging in Long Reach in 1981 (file number NAPOP-R-81-0437) and in Whale Harbor in 1982 (file number NAPOP-R-82-0505-3). Approximately five thousand seven hundred (5700) linear feet of Long Reach would be dredged to a depth of five (5) feet below mean low water, with a maximum over dredge of one (1) feet. The channel would be dredged to a width of sixty (60) feet with a side slope of 3 to 1. Approximately two thousand nine hundred (2900) linear feet of Whale Harbor would be dredged to a depth of five (5) feet below mean low water, with a maximum over dredge of one (1) feet. The channel would be dredged to a width of fifty (50) feet with a side slope of 3 to 1. Additional dredging, adjacent to existing docks may be performed within Whale Harbor; and the maximum area of impact within the waterway would be twelve and one half (12.5) acres. The accumulated sediment, composed primarily of sand, would be removed by the hydraulic method. Dredging within Long Reach would occur no closer than twenty five (25) feet from vegetative wetlands; dredging within Whale Harbor would occur no closer than twenty five (25) feet from vegetative wetlands. The excavated material would be transported via pipeline, which would be located

floating on the surface except where the pipe will cross a navigation channel. In such cases, the pipeline would be submerged on the bottom. The excavated material would be disposed of at the Macchia's Island Confined Disposal Site.

Work would need to be performed on the existing containment walls of the disposal site. Work would be performed using standardized construction equipment that would be transported to the island by barge. Temporary impacts to vegetative wetlands by the placement of the pipeline and construction equipment would be approximately seven thousand one hundred fifteen (7115) square feet. A maximum of twenty seven thousand (27,000) cubic yards of excavated material, including the area in the vicinity of the existing docks, would be disposed of at the disposal site. Return water from the disposal site would be discharged into Graven's Thorofare. Existing outlet pipe from the disposal site would be extended approximately one hundred (100) feet with the return water being deposited directly into the waterway. The area outside the disposal site would be restored to its pre-construction condition upon completion of the project. The applicant has requested that any permit issued by this office include a permit condition that would authorize maintenance dredging for the next 10 years. The area of the dredging has been designated as Hard Clam – High Value Commercial on Plate V on the map entitled "Distribution of Shellfish Resources In Relation to the New Jersey Intracoastal Waterway", prepared by the US Department of the Interior, the US Fish and Wildlife Service, dated January 1963.

PURPOSE: The applicant's stated purpose is to improve navigation within the waterways.

A preliminary review of this application indicates that the proposed work would not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act.

Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work should be submitted, in writing, within 15 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Review of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion therein are located within the permit area of the work.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act 1996 (Public Law 104-267), requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). A preliminary assessment of the species listed in the "Guide to Essential Fish Habitat Designations in the Northeastern United States, Volume IV: New Jersey and Delaware", dated March 1999, specifically page 63 indicates that the proposed activity may have an adverse effect on winter flounder (*Pseudopleuronectes americanus*). Specifically, the hydraulic dredging would impact the egg and larval stage of this species. A seasonal restriction would be added to any Department of the Army permit issued by this office to ensure impacts to the flounder's habitat, and the species itself will be minimal. This determination will be coordinated with the National Marine Fisheries Service to ensure that impacts to the aquatic resources will be minimal.

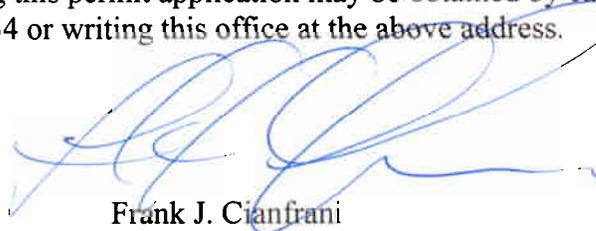
In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management (CZM) Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing.

Additional information concerning this permit application may be obtained by calling Lawrence M. Slavitter at 215-656-6734 or writing this office at the above address.

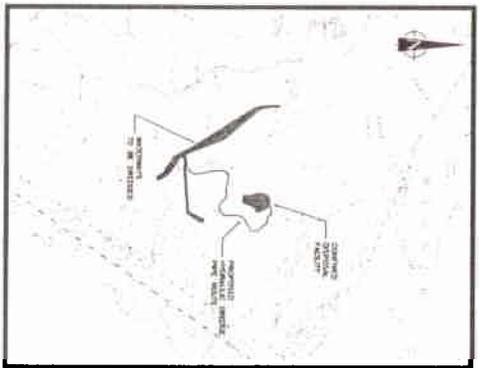
A handwritten signature in blue ink, appearing to read 'Frank J. Cianfrani', is written over a faint, light blue circular stamp or watermark.

Frank J. Cianfrani
Chief, Regulatory Branch

BOROUGH OF AVALON
 CAPE MAY COUNTY, NEW JERSEY

2007 MAINTENANCE DREDGING LONG REACH AND WHALE HARBOR

JUNE 2007

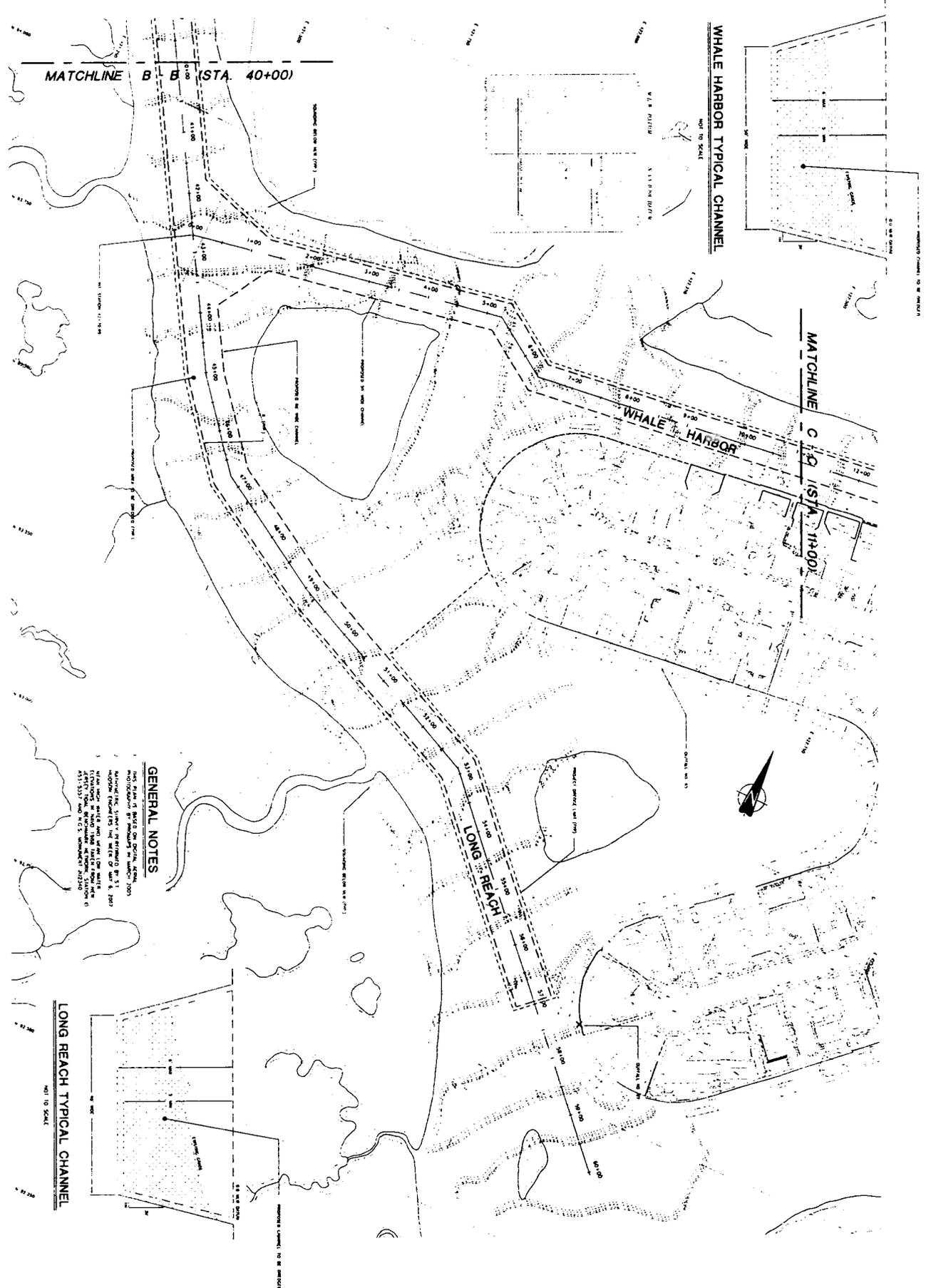


LOCATION MAP
 NOT TO SCALE

Sheet	Discipline	INDEX OF DRAWINGS
1	GENERAL	GENERAL NOTES
2	HYDROGRAPHY	HYDROGRAPHIC DATA
3	HYDROGRAPHY	HYDROGRAPHIC DATA
4	HYDROGRAPHY	HYDROGRAPHIC DATA
5	HYDROGRAPHY	HYDROGRAPHIC DATA
6	HYDROGRAPHY	HYDROGRAPHIC DATA
7	HYDROGRAPHY	HYDROGRAPHIC DATA
8	HYDROGRAPHY	HYDROGRAPHIC DATA
9	HYDROGRAPHY	HYDROGRAPHIC DATA
10	HYDROGRAPHY	HYDROGRAPHIC DATA
11	HYDROGRAPHY	HYDROGRAPHIC DATA
12	HYDROGRAPHY	HYDROGRAPHIC DATA
13	HYDROGRAPHY	HYDROGRAPHIC DATA
14	HYDROGRAPHY	HYDROGRAPHIC DATA
15	HYDROGRAPHY	HYDROGRAPHIC DATA
16	HYDROGRAPHY	HYDROGRAPHIC DATA
17	HYDROGRAPHY	HYDROGRAPHIC DATA
18	HYDROGRAPHY	HYDROGRAPHIC DATA
19	HYDROGRAPHY	HYDROGRAPHIC DATA
20	HYDROGRAPHY	HYDROGRAPHIC DATA
21	HYDROGRAPHY	HYDROGRAPHIC DATA
22	HYDROGRAPHY	HYDROGRAPHIC DATA
23	HYDROGRAPHY	HYDROGRAPHIC DATA
24	HYDROGRAPHY	HYDROGRAPHIC DATA
25	HYDROGRAPHY	HYDROGRAPHIC DATA
26	HYDROGRAPHY	HYDROGRAPHIC DATA
27	HYDROGRAPHY	HYDROGRAPHIC DATA
28	HYDROGRAPHY	HYDROGRAPHIC DATA
29	HYDROGRAPHY	HYDROGRAPHIC DATA
30	HYDROGRAPHY	HYDROGRAPHIC DATA
31	HYDROGRAPHY	HYDROGRAPHIC DATA
32	HYDROGRAPHY	HYDROGRAPHIC DATA
33	HYDROGRAPHY	HYDROGRAPHIC DATA
34	HYDROGRAPHY	HYDROGRAPHIC DATA
35	HYDROGRAPHY	HYDROGRAPHIC DATA
36	HYDROGRAPHY	HYDROGRAPHIC DATA
37	HYDROGRAPHY	HYDROGRAPHIC DATA
38	HYDROGRAPHY	HYDROGRAPHIC DATA
39	HYDROGRAPHY	HYDROGRAPHIC DATA
40	HYDROGRAPHY	HYDROGRAPHIC DATA
41	HYDROGRAPHY	HYDROGRAPHIC DATA
42	HYDROGRAPHY	HYDROGRAPHIC DATA
43	HYDROGRAPHY	HYDROGRAPHIC DATA
44	HYDROGRAPHY	HYDROGRAPHIC DATA
45	HYDROGRAPHY	HYDROGRAPHIC DATA
46	HYDROGRAPHY	HYDROGRAPHIC DATA
47	HYDROGRAPHY	HYDROGRAPHIC DATA
48	HYDROGRAPHY	HYDROGRAPHIC DATA
49	HYDROGRAPHY	HYDROGRAPHIC DATA
50	HYDROGRAPHY	HYDROGRAPHIC DATA
51	HYDROGRAPHY	HYDROGRAPHIC DATA
52	HYDROGRAPHY	HYDROGRAPHIC DATA
53	HYDROGRAPHY	HYDROGRAPHIC DATA
54	HYDROGRAPHY	HYDROGRAPHIC DATA
55	HYDROGRAPHY	HYDROGRAPHIC DATA
56	HYDROGRAPHY	HYDROGRAPHIC DATA
57	HYDROGRAPHY	HYDROGRAPHIC DATA
58	HYDROGRAPHY	HYDROGRAPHIC DATA
59	HYDROGRAPHY	HYDROGRAPHIC DATA
60	HYDROGRAPHY	HYDROGRAPHIC DATA
61	HYDROGRAPHY	HYDROGRAPHIC DATA
62	HYDROGRAPHY	HYDROGRAPHIC DATA
63	HYDROGRAPHY	HYDROGRAPHIC DATA
64	HYDROGRAPHY	HYDROGRAPHIC DATA
65	HYDROGRAPHY	HYDROGRAPHIC DATA
66	HYDROGRAPHY	HYDROGRAPHIC DATA
67	HYDROGRAPHY	HYDROGRAPHIC DATA
68	HYDROGRAPHY	HYDROGRAPHIC DATA
69	HYDROGRAPHY	HYDROGRAPHIC DATA
70	HYDROGRAPHY	HYDROGRAPHIC DATA
71	HYDROGRAPHY	HYDROGRAPHIC DATA
72	HYDROGRAPHY	HYDROGRAPHIC DATA
73	HYDROGRAPHY	HYDROGRAPHIC DATA
74	HYDROGRAPHY	HYDROGRAPHIC DATA
75	HYDROGRAPHY	HYDROGRAPHIC DATA
76	HYDROGRAPHY	HYDROGRAPHIC DATA
77	HYDROGRAPHY	HYDROGRAPHIC DATA
78	HYDROGRAPHY	HYDROGRAPHIC DATA
79	HYDROGRAPHY	HYDROGRAPHIC DATA
80	HYDROGRAPHY	HYDROGRAPHIC DATA
81	HYDROGRAPHY	HYDROGRAPHIC DATA
82	HYDROGRAPHY	HYDROGRAPHIC DATA
83	HYDROGRAPHY	HYDROGRAPHIC DATA
84	HYDROGRAPHY	HYDROGRAPHIC DATA
85	HYDROGRAPHY	HYDROGRAPHIC DATA
86	HYDROGRAPHY	HYDROGRAPHIC DATA
87	HYDROGRAPHY	HYDROGRAPHIC DATA
88	HYDROGRAPHY	HYDROGRAPHIC DATA
89	HYDROGRAPHY	HYDROGRAPHIC DATA
90	HYDROGRAPHY	HYDROGRAPHIC DATA
91	HYDROGRAPHY	HYDROGRAPHIC DATA
92	HYDROGRAPHY	HYDROGRAPHIC DATA
93	HYDROGRAPHY	HYDROGRAPHIC DATA
94	HYDROGRAPHY	HYDROGRAPHIC DATA
95	HYDROGRAPHY	HYDROGRAPHIC DATA
96	HYDROGRAPHY	HYDROGRAPHIC DATA
97	HYDROGRAPHY	HYDROGRAPHIC DATA
98	HYDROGRAPHY	HYDROGRAPHIC DATA
99	HYDROGRAPHY	HYDROGRAPHIC DATA
100	HYDROGRAPHY	HYDROGRAPHIC DATA

**Hatch Mott
 MacDonald**
 Consulting No. Z46200000
 833 Route 9 South, P. O. Box 373
 Cape May, NJ 08204-0373

THOMAS R. THORNTON
 THOMAS R. THORNTON
 P.E. No. 246200000



LONG REACH & WHALE HARBOR DREDGE PLAN



GENERAL NOTES

1. THIS PLAN IS BASED ON DATA SUPPLIED BY THE BOROUGH OF AVALON AND THE NEW JERSEY DEPARTMENT OF TRANSPORTATION AND PLANNING.
2. THE DEPTHS SHOWN ON THIS PLAN ARE BASED ON MEAN LOW WATER.
3. THE DEPTHS SHOWN ON THIS PLAN ARE BASED ON MEAN LOW WATER.
4. THE DEPTHS SHOWN ON THIS PLAN ARE BASED ON MEAN LOW WATER.
5. THE DEPTHS SHOWN ON THIS PLAN ARE BASED ON MEAN LOW WATER.

LONG REACH TYPICAL CHANNEL

NOT TO SCALE

BOROUGH OF AVALON
CAPE MAY COUNTY, NEW JERSEY
2007 MAINTENANCE DREDGING
LONG REACH & WHALE HARBOR
LONG REACH - STA. 40+00 TO STA. 60+50
WHALE HARBOR - STA. 0+00 TO STA. 11+00

Hatch Mott MacDonald
Certificate No. 24C428014600

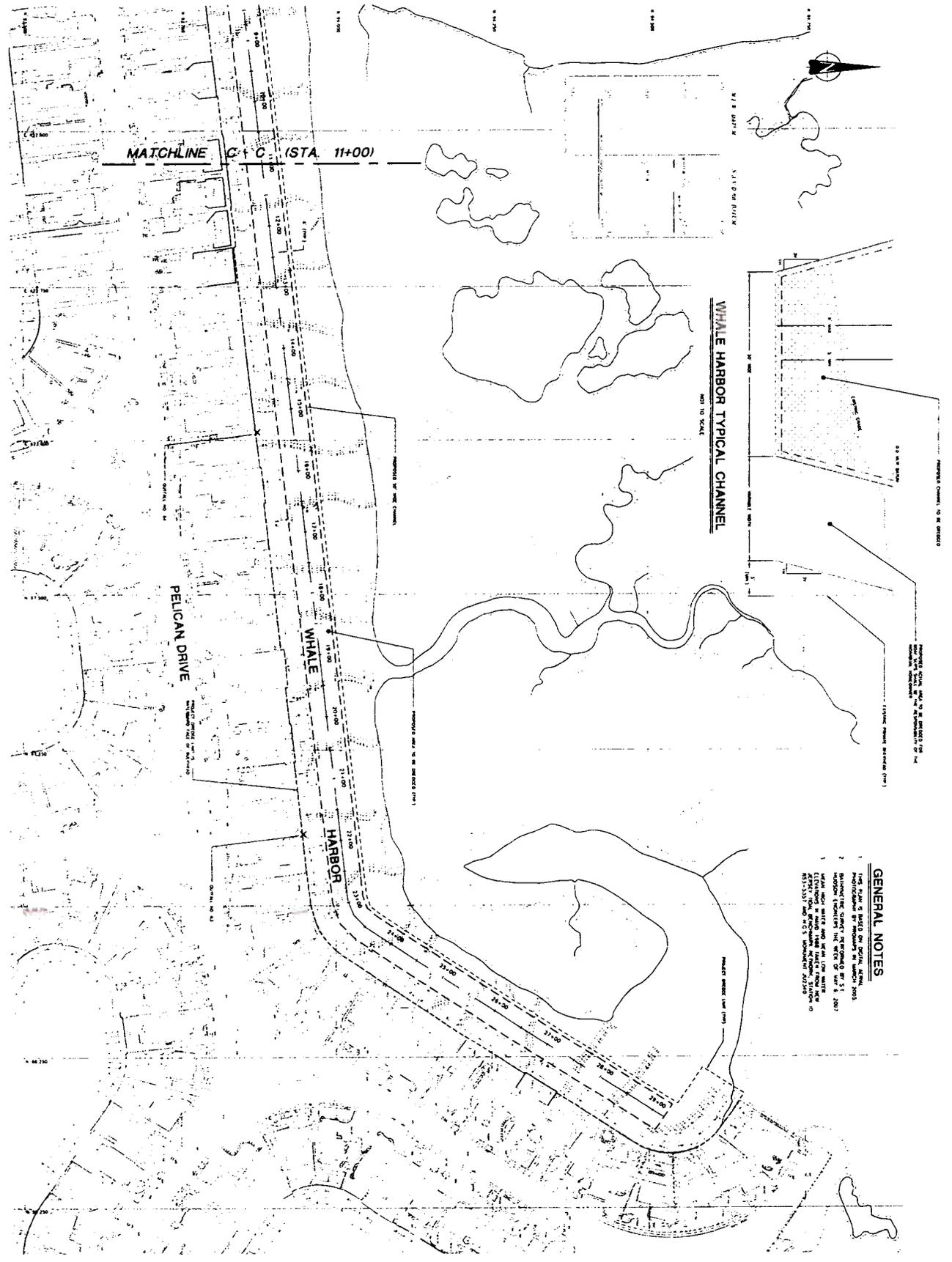
THOMAS R. THORNTON
Professional Engineer - No. Lic. No. 34826477000

833 Route 8 North
Cape May Court House, NJ 08210
P. 808.465.9377 F. 808.465.5270

Prepared	Drawn	Checked	Approved	Date
TH	TH	TRT	TRT	08/15/07

Discipline: Other

Reason:



WHALE HARBOR DREDGE PLAN

Scale: 1" = 100'

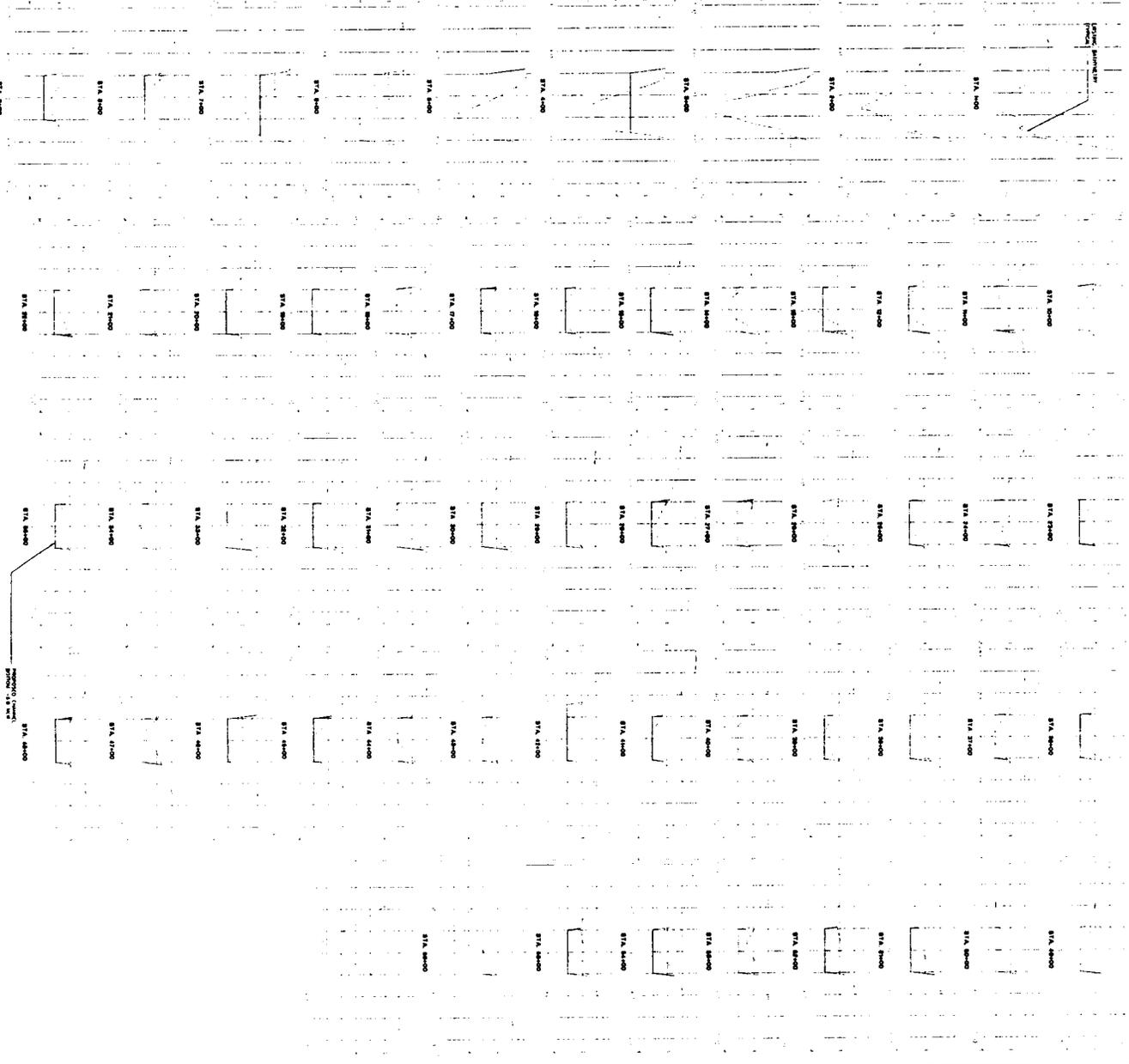
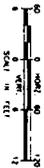
WHALE HARBOR TYPICAL CHANNEL

NOT TO SCALE

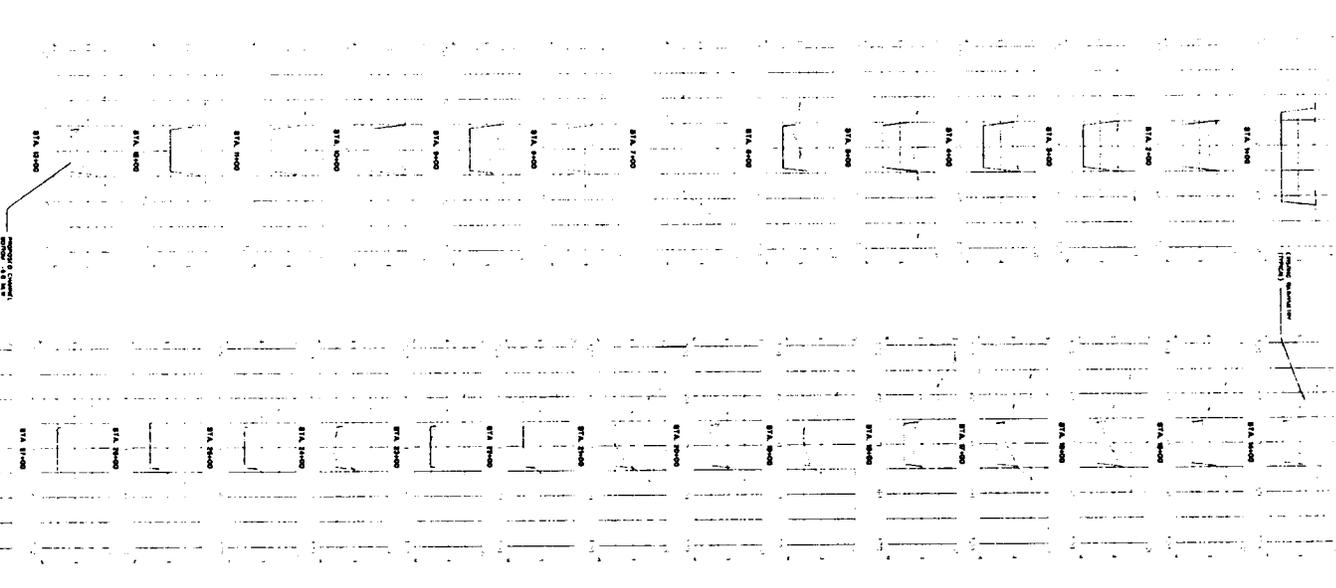
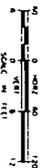
- GENERAL NOTES**
1. THIS PLAN IS BASED ON THE SURVEY DATA PROVIDED BY THE BOROUGH OF AVALON.
 2. BOUNDARY LINE SHOWN ON THIS PLAN IS BASED ON THE SURVEY DATA PROVIDED BY THE BOROUGH OF AVALON.
 3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 4. ALL DISTANCES ARE MEASURED ALONG THE CENTERLINE OF THE CHANNEL UNLESS OTHERWISE NOTED.
 5. ALL DISTANCES ARE MEASURED FROM THE POINT OF BEGINNING (P.O.B.) UNLESS OTHERWISE NOTED.

BOROUGH OF AVALON CAPE MAY COUNTY, NEW JERSEY 2007 MAINTENANCE DREDGING LONG REACH & WHALE HARBOR WHALE HARBOR - STA. 11+00 TO STA. 29+00	HATCH MOTT MACDONALD 455 Route 9 North Cape May Court House, NJ 08213 P 609-465-8377 F 609-465-5270	THOMAS R. THORNTON Professional Engineer - P.E. Lic. No. 548804-07000 		Date 04/15/07	Revision
		Design TTY	Draw TTY		

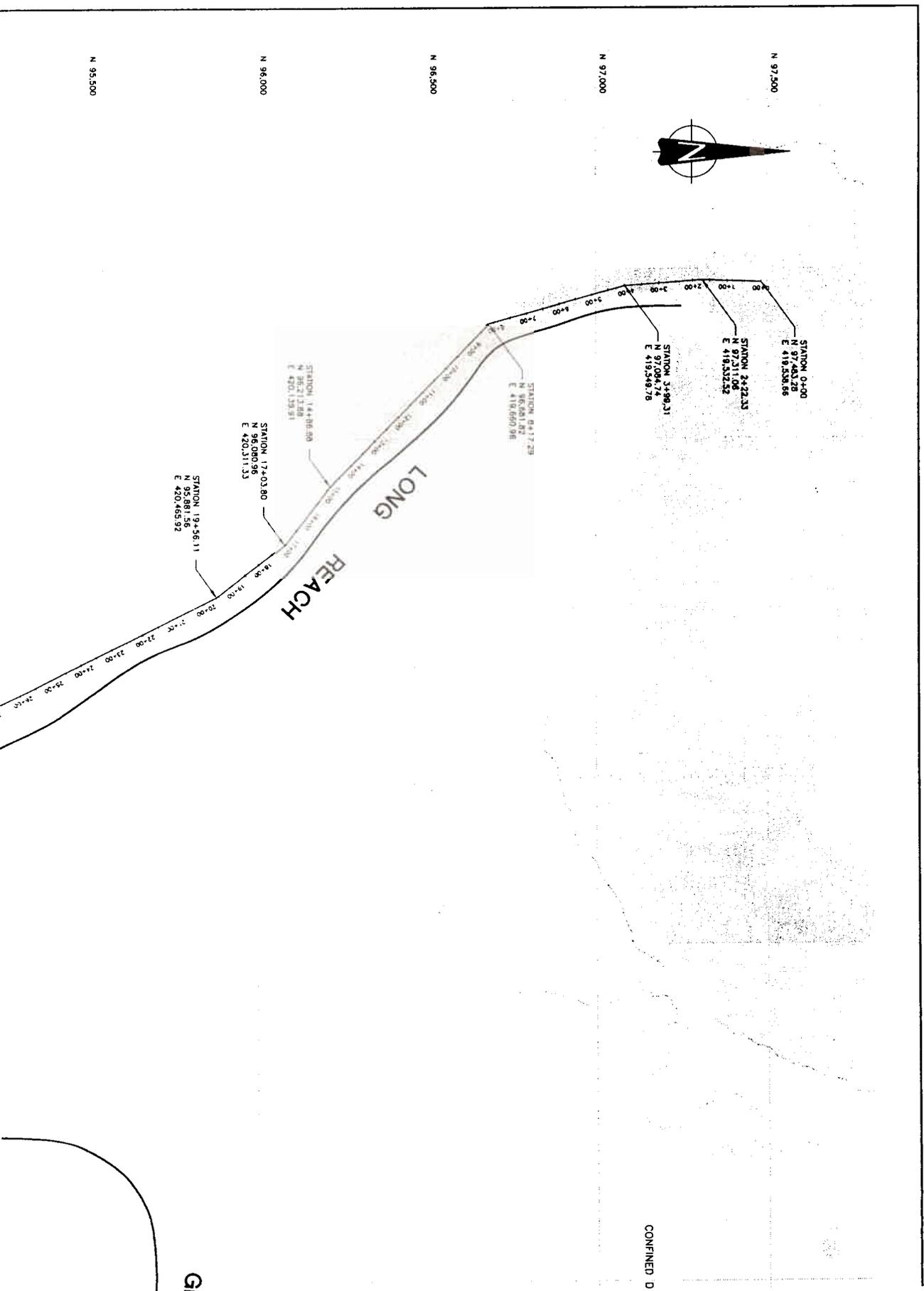
LONG REACH CROSS SECTIONS



WHALE HARBOR CROSS SECTIONS

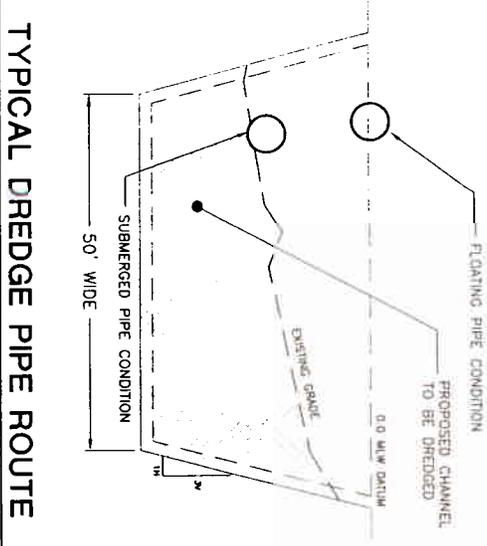
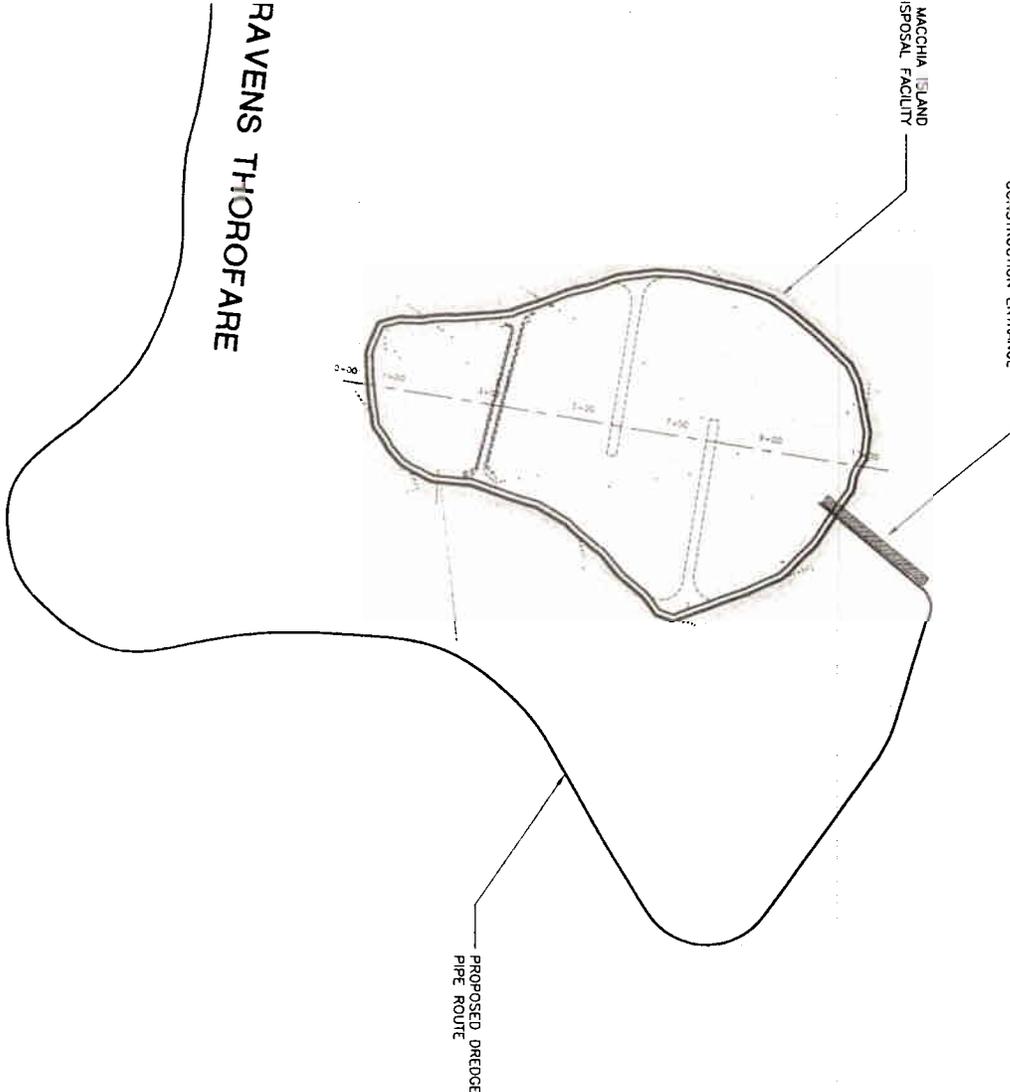


10/20/07 10/20/07 10/20/07	BOROUGH OF AVALON CAPE MAY COUNTY, NEW JERSEY 2007 MAINTENANCE DREDGING LONG REACH & WHALE HARBOR LONG REACH & WHALE HARBOR CROSS SECTIONS			THOMAS R. THORNTON Professional Engineer - N.J. Lic. No. 34865-017000 	Date Revision
	833 Route 8 North Cape May Court House, NJ 08210 P. 609-465-8377 F. 609-465-5370		Certificate No. 246428016800 Design Date Draw Date Check Date Prepare Date 08/15/07	Date Revision	



CONTINUED D

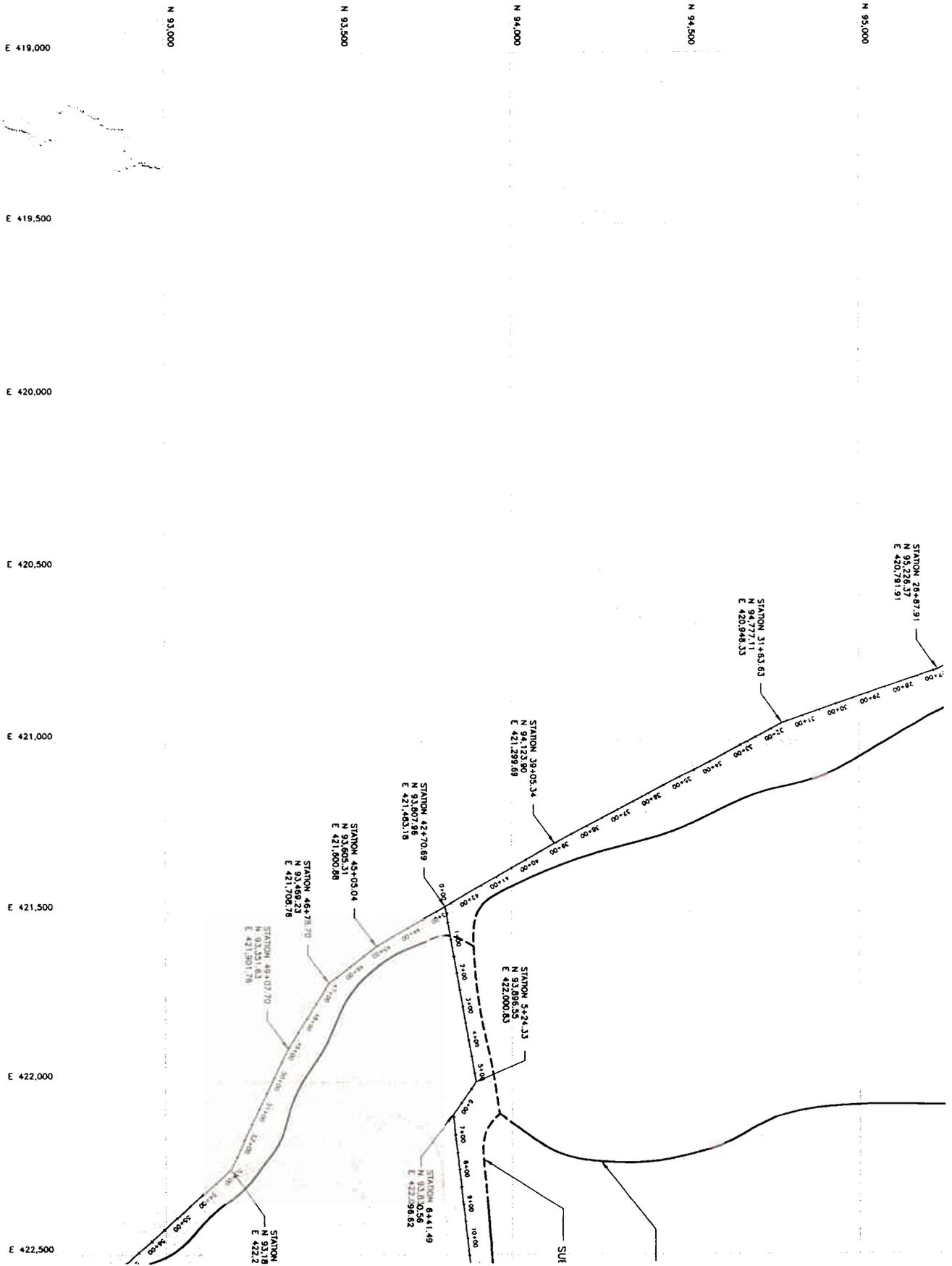
G1



FORNTON
N.J. Lic. No. 24GE04177000

A. Th...

Checked TRT	Approved TRT	Date 06/15/07	Date 7/12/07	Revision Per. ACDE Comments on July 10, 2007
----------------	-----------------	------------------	-----------------	---

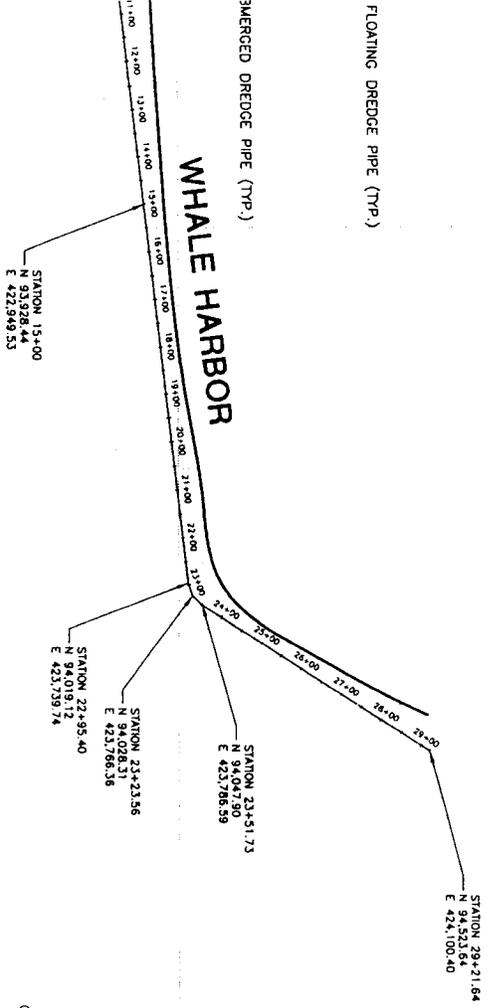


OVERALL PROJECT



FLOATING DREDGE PIPE (TYP.)

EMERGED DREDGE PIPE (TYP.)



GENERAL NOTES

1. THIS PLAN IS BASED ON AERIAL PHOTOGRAPHY BY PROMAPS IN MARCH 2005.
2. HORIZONTAL DATUM IS N.A.D. 1983.

GENERAL NOTES:

1. THE CONTRACTOR SHALL PERFORM PRE-DREDGE AND POST-DREDGE HYDROGRAPHIC SURVEYS OF THE ENTIRE AREA TO BE DREDGED. HYDROGRAPHIC SURVEYS SHALL BE PERFORMED BY A CERTIFIED HYDROGRAPHER, A LICENSED LAND SURVEYOR WITH FIVE YEARS OF HYDROGRAPHIC EXPERIENCE, OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY.
2. THE CONTRACTOR SHALL PERFORM PRE-DREDGE AND POST-DREDGE VOLUME ESTIMATES OF ACTUAL MATERIAL REMOVED. CALCULATIONS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY.
3. THE CONTRACTOR SHALL PERFORM AN AS-BUILT TOPOGRAPHIC SURVEY OF THE ENTIRE DISPOSAL AREA. THE SURVEY SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEW JERSEY.
4. THE PIPELINE FROM THE DREDGE TO THE DISPOSAL AREAS SHALL BE MAINTAINED BY THE CONTRACTOR IN SUCH CONDITION AS TO PREVENT LEAKAGE OF THE DREDGED MATERIAL FROM THE PIPELINE.
5. WHERE THE PIPELINE CROSSES A NAVIGATIONAL CHANNEL, THE PIPELINE SHALL BE SUBMERGED, MARKED, AND LIGHTED FOR THE PROTECTION OF THE BOATING PUBLIC.
6. THE PROPOSED PIPELINE ROUTE LEADING FROM THE DREDGE AND EXITING INTO THE DISPOSAL AREA IS INDICATED ON THE PROJECT PLANS. ANY DEVIATION FROM THIS ROUTE MUST BE CLEARLY DRAWN ON THE PROJECT PLANS AND SUBMITTED FOR APPROVAL FROM THE BUREAU OF COASTAL ENGINEERING PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. THE CONTRACTOR SHALL MONITOR THE EFFLUENT, ON A DAILY BASIS FROM THE DISPOSAL SITE DISCHARGE PIPE FOR LESS THAN 8 GRAMS PER LITER SUSPENDED SOLIDS IN EXCESS OF THE WATER UPSTREAM OF THE DISPOSAL SITE DISCHARGE. THESE DAILY RESULTS SHALL BE LOGGED AND THE RESULTS SUBMITTED TO THE MANAGER, BUREAU OF COASTAL ENGINEERING OR HIS APPOINTED REPRESENTATIVE. THE LOG SHALL STATE THE TIME THE SAMPLE WAS TAKEN, THE DATE AND THE QUANTITY OF SUSPENDED SOLIDS.
8. THE CONTRACTOR SHALL MONITOR THE DISPOSAL AREA CONDITIONS TO MAINTAIN TWO (2) FOOT FREEBOARD.

E 425,000
E 425,500



T PLAN

400

52+91.62
5.88
51.37

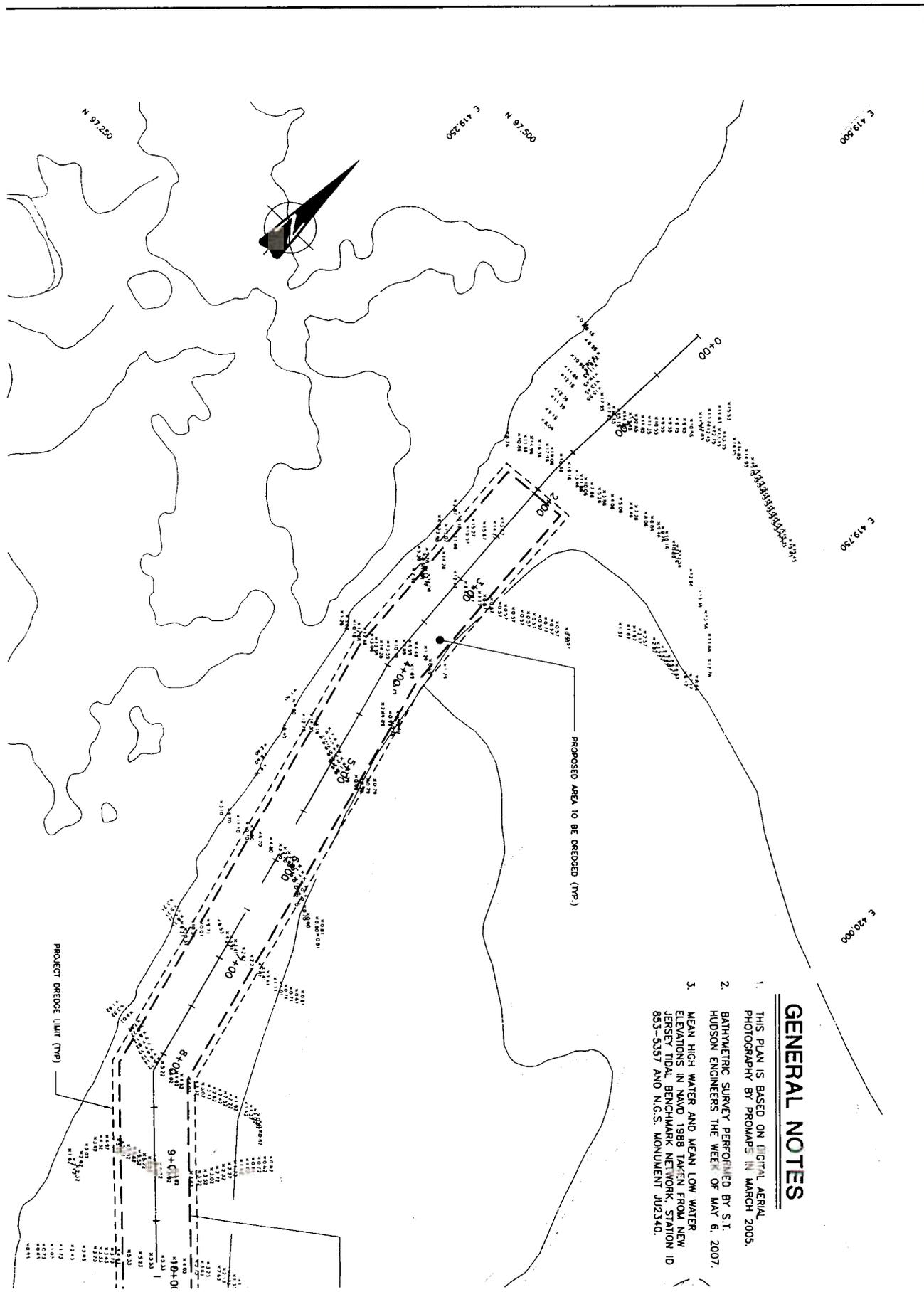
BOROUGH OF AVALON
CAPE MAY COUNTY, NEW JERSEY
**2007 MAINTENANCE DREDGING
LONG REACH & WHALE HARBOR**
OVERALL PROJECT PLAN

Hatch Mott MacDonald
Certificate No. 24GA28016600
833 Route 9 North
Cape May Court House, NJ 08210
P 609.465.9377 F 609.465.5270

THOMAS R. TH
Professional Engineer
Thomas R. Th
Designed MAW
Drawn MAW

236321	No.	2
	B/O	2
	Total	8

Contract No.



GENERAL NOTES

1. THIS PLAN IS BASED ON DIGITAL AERIAL PHOTOGRAPHY BY PROMAPS IN MARCH 2005.
2. BATHYMETRIC SURVEY PERFORMED BY S.T. HUDSON ENGINEERS THE WEEK OF MAY 6, 2007.
3. MEAN HIGH WATER AND MEAN LOW WATER ELEVATIONS IN NAVD 1988 TAKEN FROM NEW JERSEY TIDAL BENCHMARK NETWORK, STATION ID 853-5357 AND N.C.S. MONUMENT J02340.

E 420150

E 420150

E 420150

M.L.W. DATUM

N.A.K.D. BR. DATUM

+10.0

+7.60

+5.0

M.L.W. 1.95

M.L.W. 1.58

+2.60

0.0

M.L.W.

-2.40

5.0

PROPOSED CHANNEL BOTTOM

-7.40

-10.0
BASED ON STATION 10 851 5157

-12.40

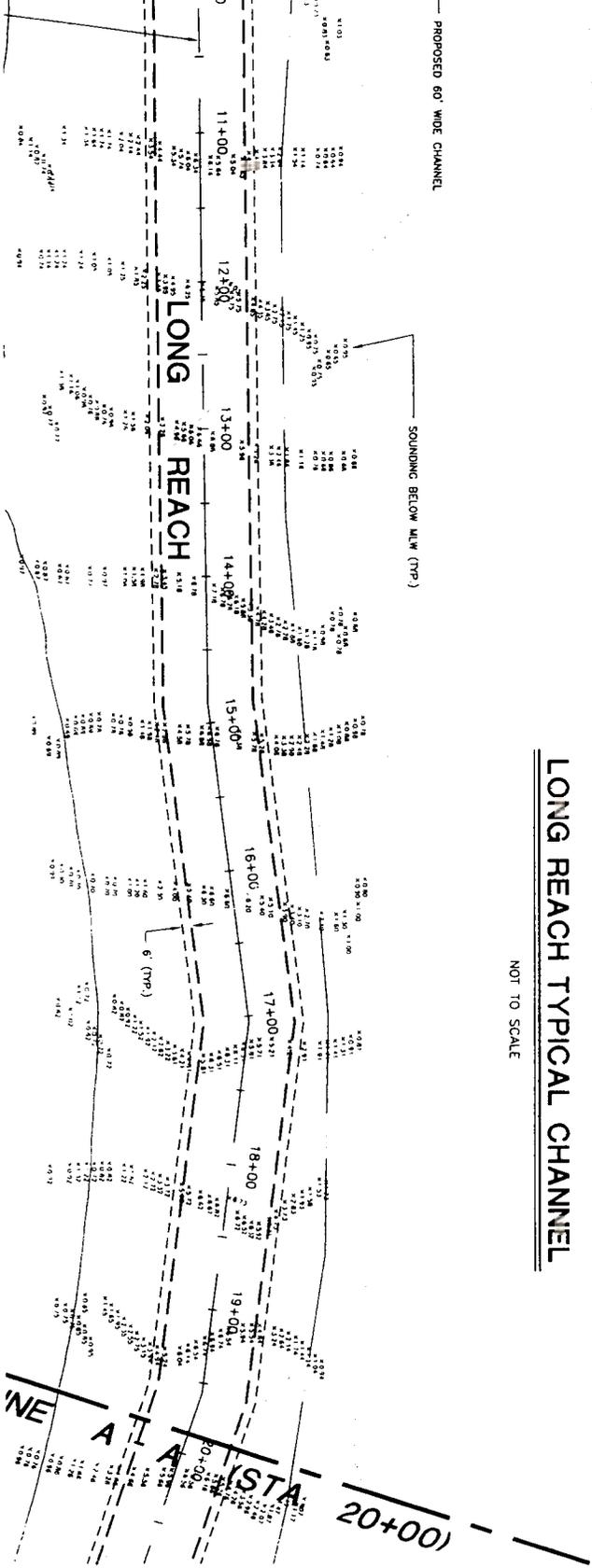
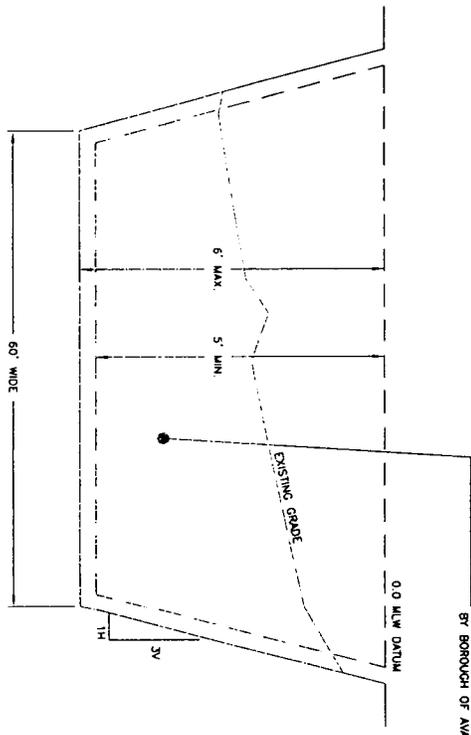
PROPOSED 60' WIDE CHANNEL

SOUNDING BELOW M.L.W. (T.P.)

LONG REACH

LONG REACH TYPICAL CHANNEL

NOT TO SCALE



FORNTON

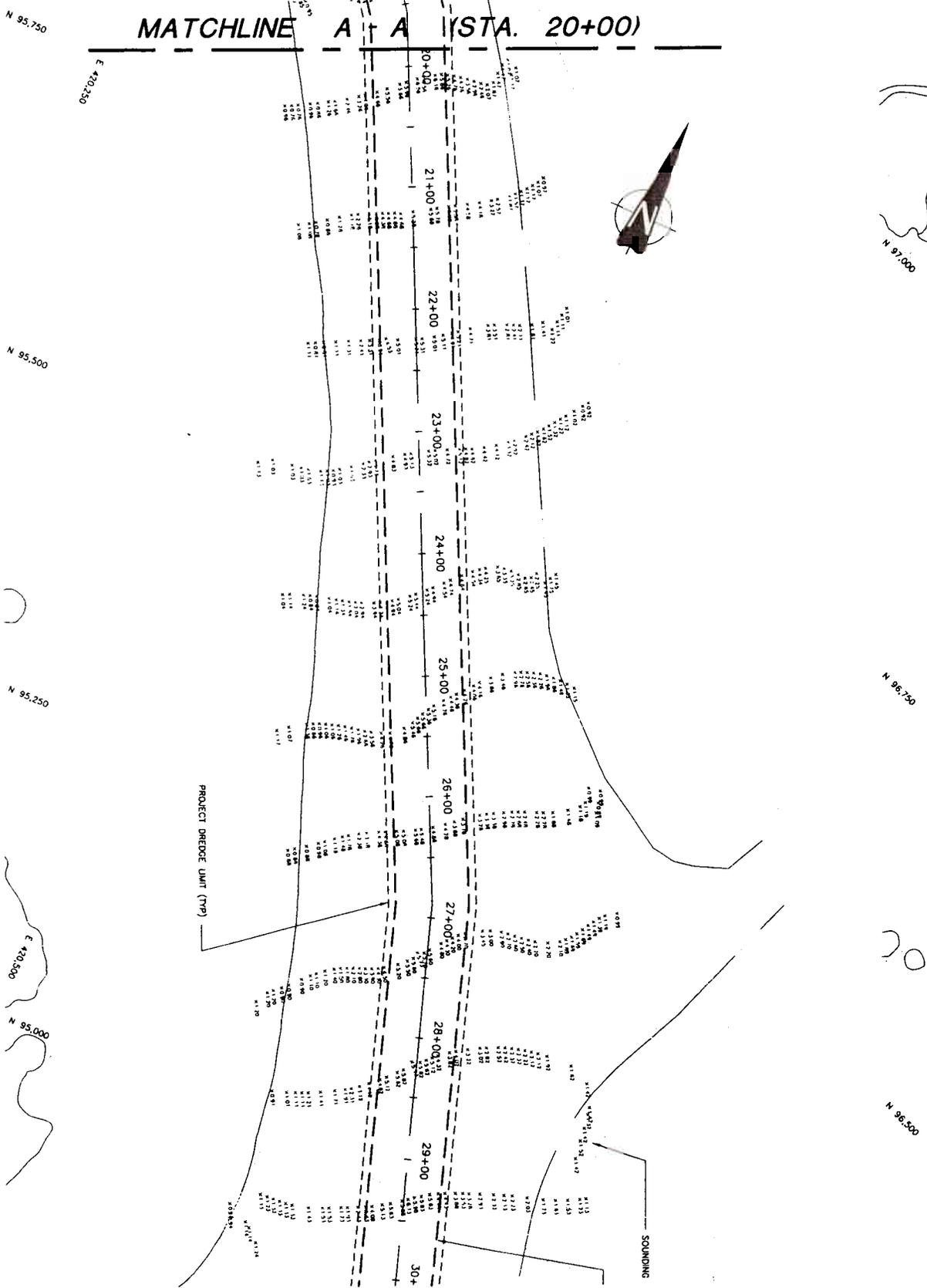
N.J. Lic. No. 24GE04177000

[Signature]

Checked IRI	Approved IRI	Date 06/15/07
----------------	-----------------	------------------

Date	Revision
------	----------

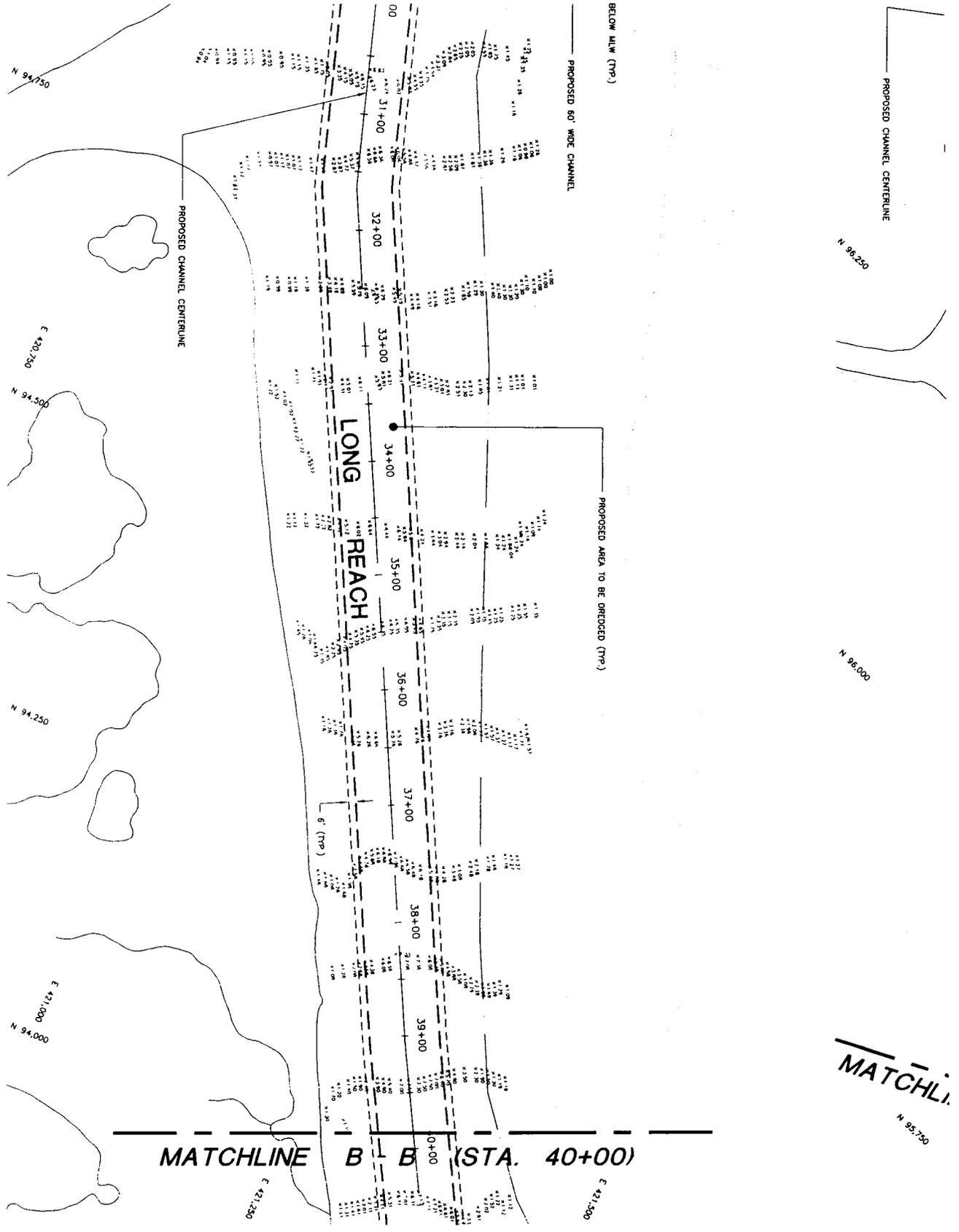
MATCHLINE A - A (STA. 20+00)



LONG REACH
SCALE
0 30 60



DREDGE PLAN



Job No.	2300271
No.	3
B/O	3
Total	8

BOROUGH OF AVALON
 CAPE MAY COUNTY, NEW JERSEY
2007 MAINTENANCE DREDGING
LONG REACH & WHALE HARBOR
LONG REACH - STA. 0+00 TO STA. 40+00

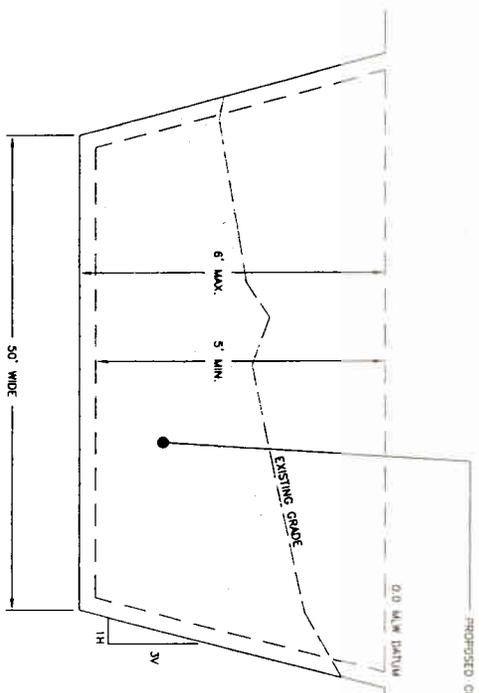
BELOW M.L.W. (TYP.)
 PROPOSED 80' WIDE CHANNEL
 PROPOSED AREA TO BE DREDGED (TYP.)

Hatch Mott MacDonald
 Certificate No. 24GA28016600
 833 Route 9 North
 Cape May Court House, NJ 08210
 P 609.465.9377 F 609.465.5270

THOMAS R. THOMPSON
 Professional Engineer

 Designed: MAW
 Drawn: MAW

Contract No.



PROPOSED CHANNEL TO BE DREDGED

WHALE HARBOR TYPICAL CHANNEL

NOT TO SCALE

E 432,000
 M.L.W. DATUM
 NAVD 83 DATUM
 +10.0
 +17.60

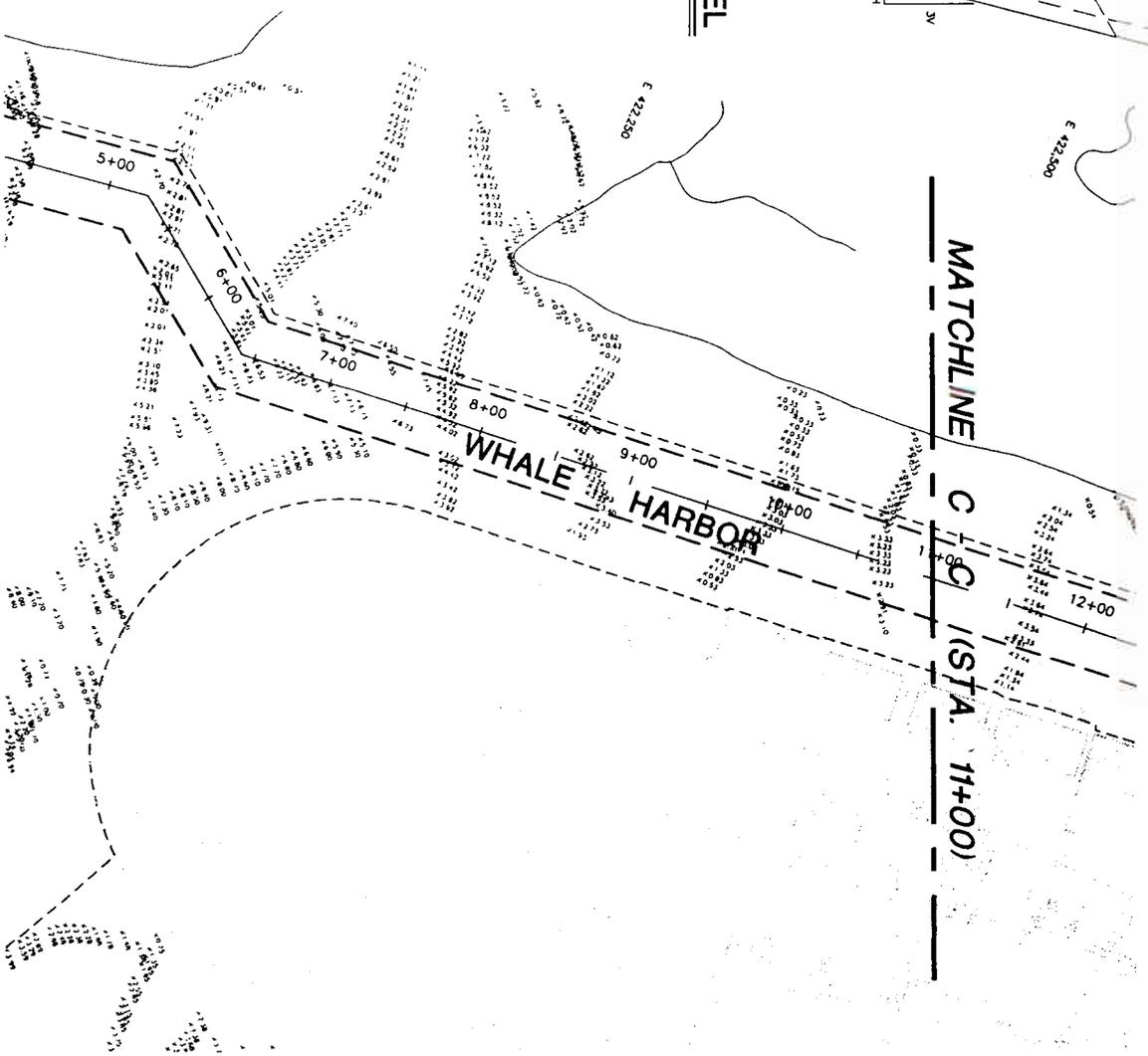
+ 5.0
 M.H.W. : 85
 M.L.W. : 85
 +2.60
 -1.50

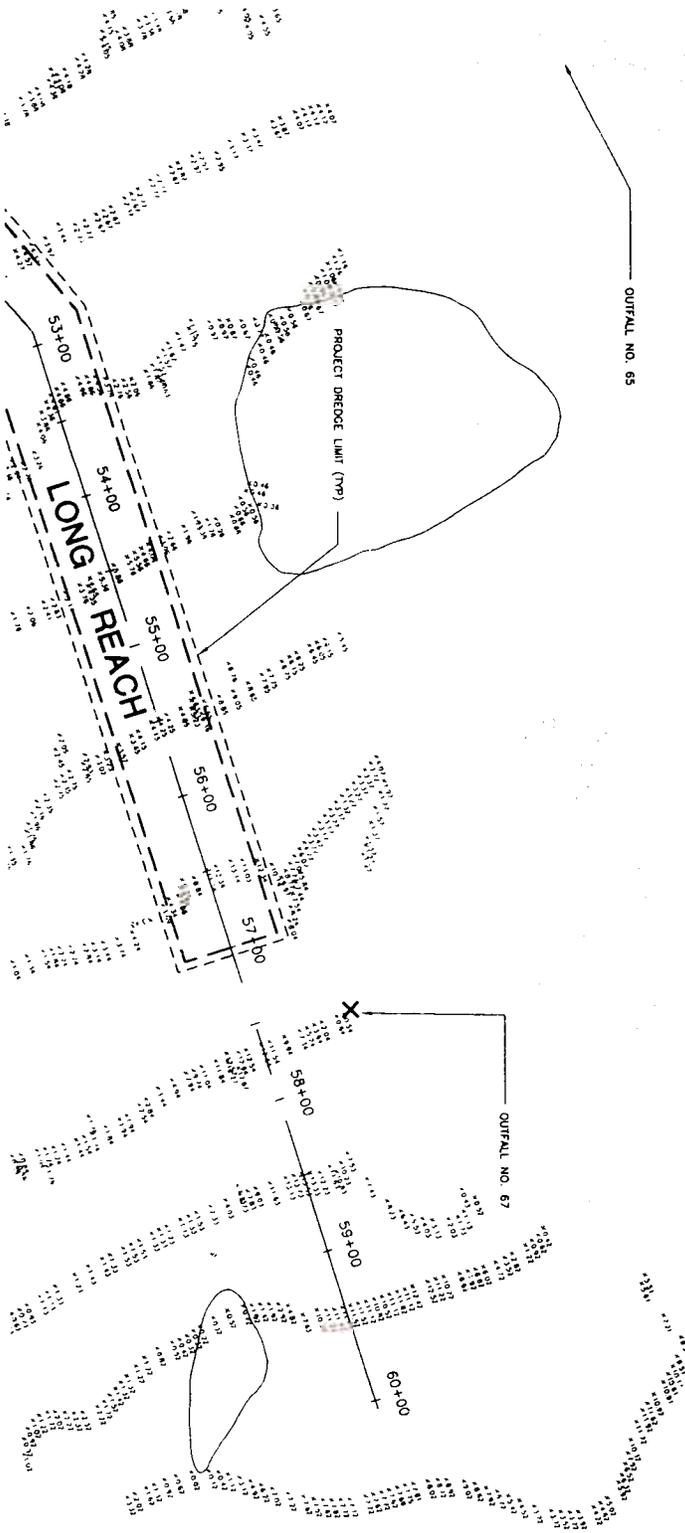
0.0
 M.L.W.
 -2.40

5.0
 PROPOSED CHANNEL BOTTOM
 -6.0
 -7.40
 -8.40

-10.0
 BASED ON STATION 10 AND 537
 -12.40

E 431,750



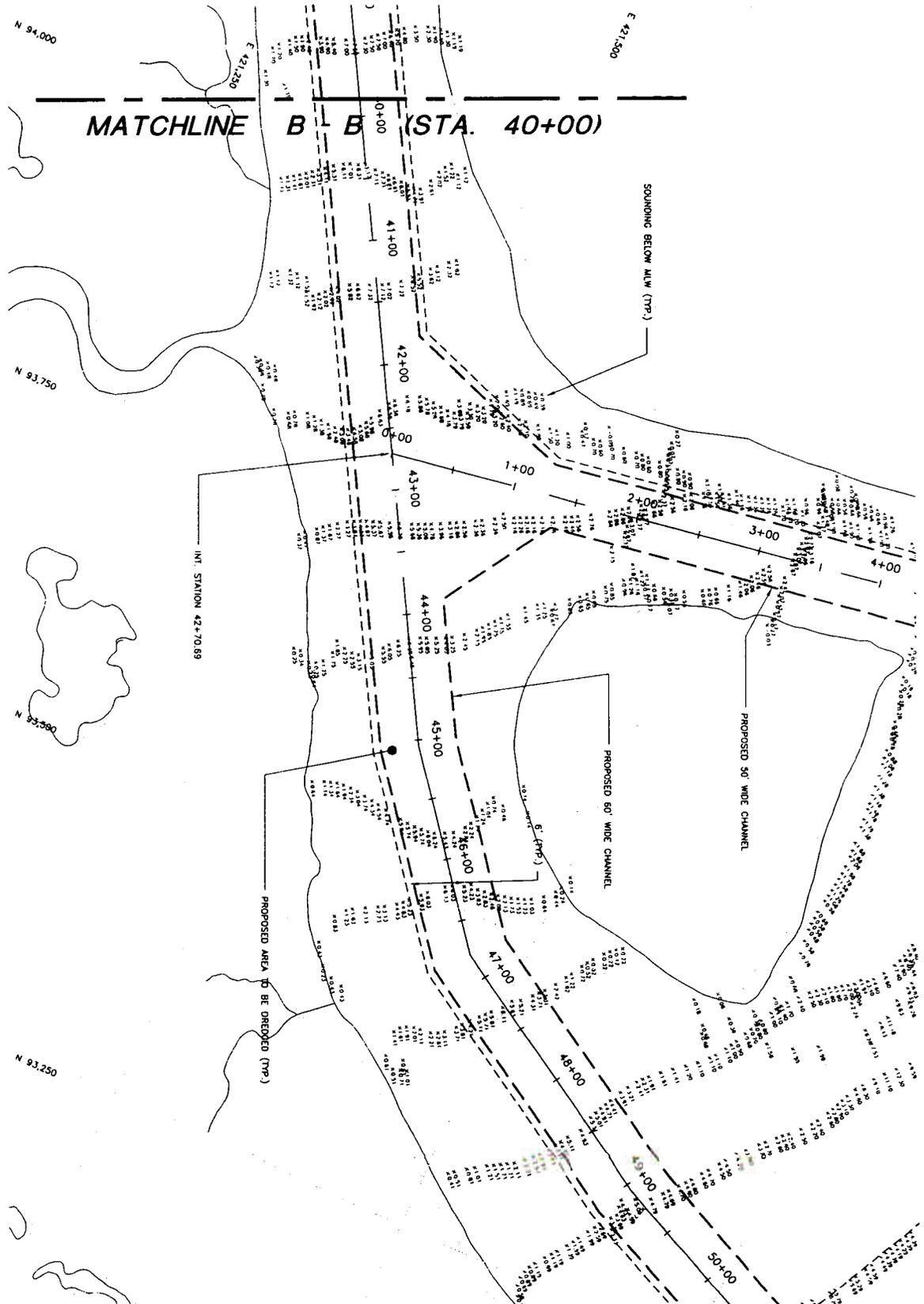


IORNTON

N.J. Lic. No. 24GED177000

[Signature]

Checked TRT	Approved TRT	Date 06/15/07	Date	Revision
----------------	-----------------	------------------	------	----------



LONG REACH & WHALE H/



SCALE IN FT

60
120
Feet

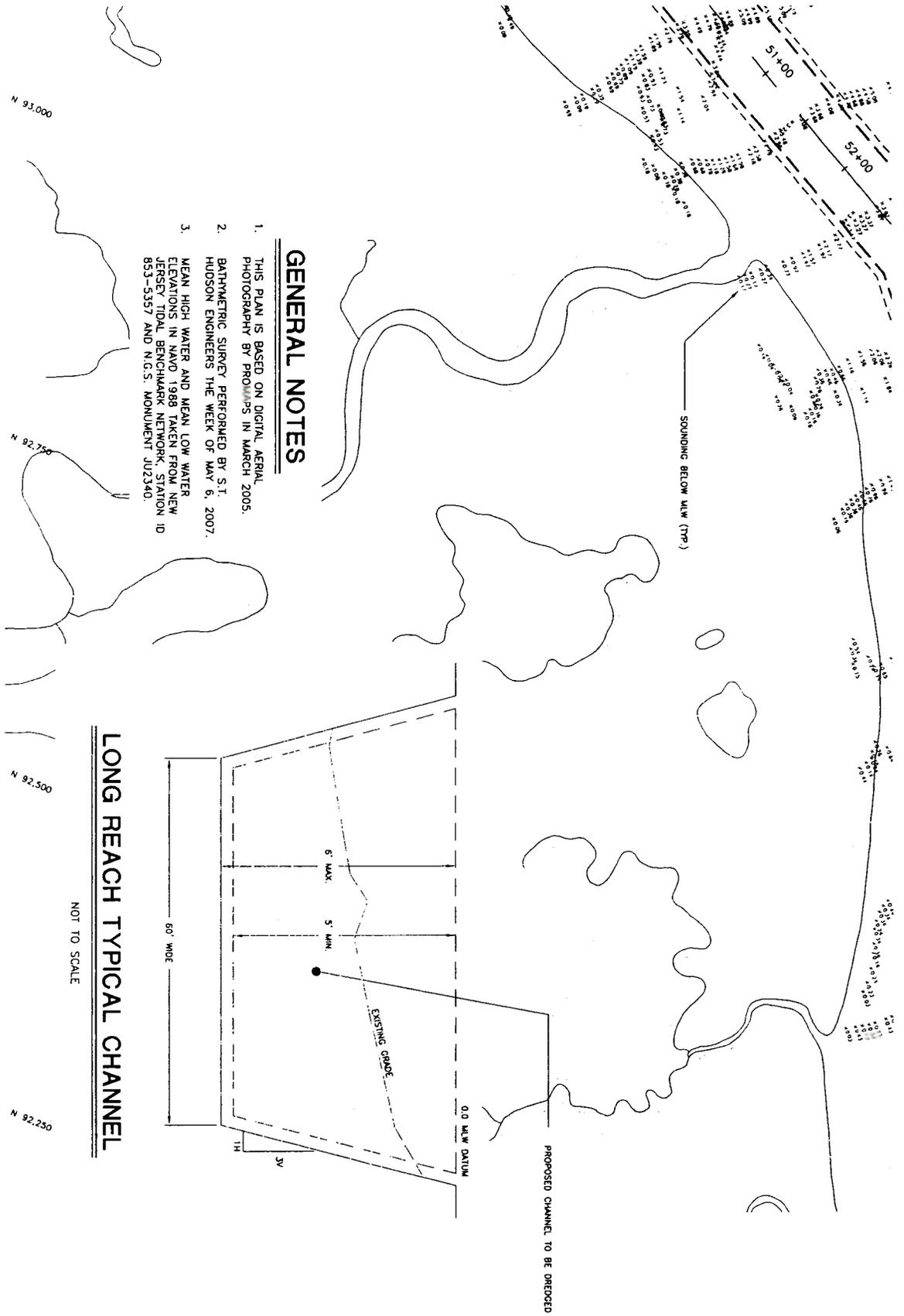
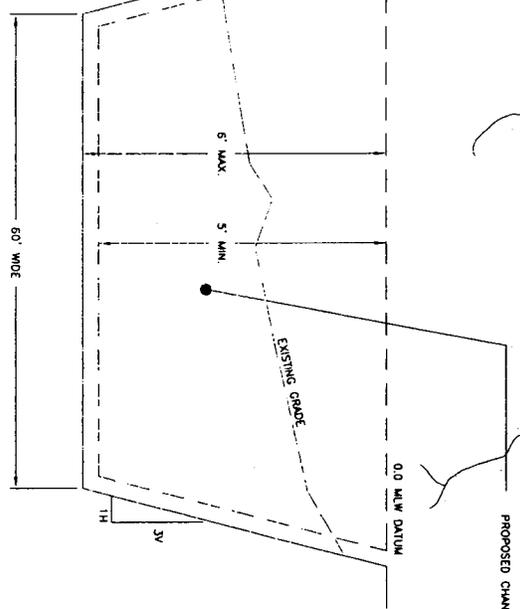
ARBOR DREDGE PLAN

1. THIS PLAN IS BASED ON DIGITAL AERIAL PHOTOGRAPHY BY PROMPTERS IN MARCH 2005.
2. BATHYMETRIC SURVEY PERFORMED BY S. I. HUDSON ENGINEERS THE WEEK OF MAY 6, 2007.
3. MEAN HIGH WATER AND MEAN LOW WATER ELEVATIONS IN HAND 1988 TAKEN FROM NEW JERSEY TIDAL BENCHMARK NETWORK, STATION ID 853-5357 AND N.G.S. MONUMENT J02340.

GENERAL NOTES

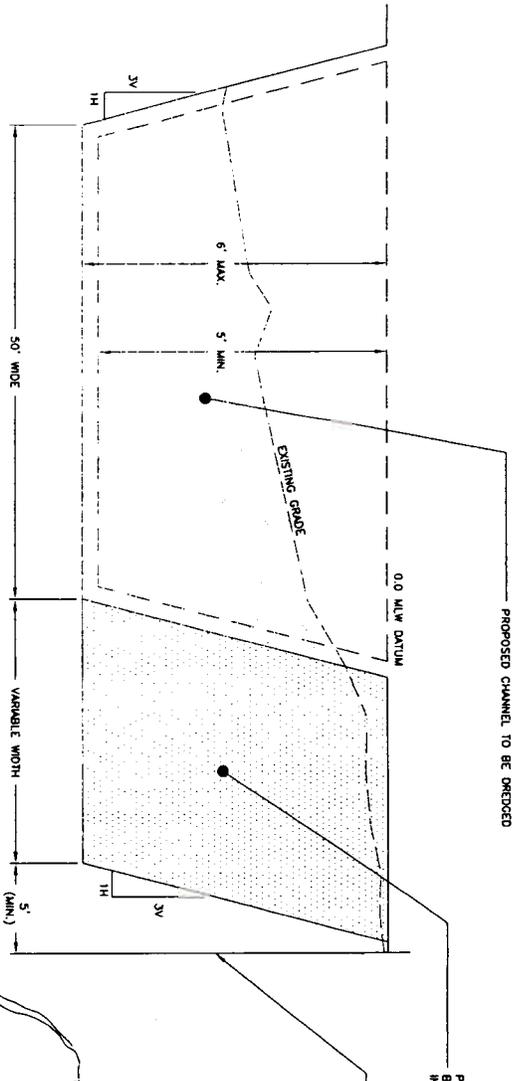
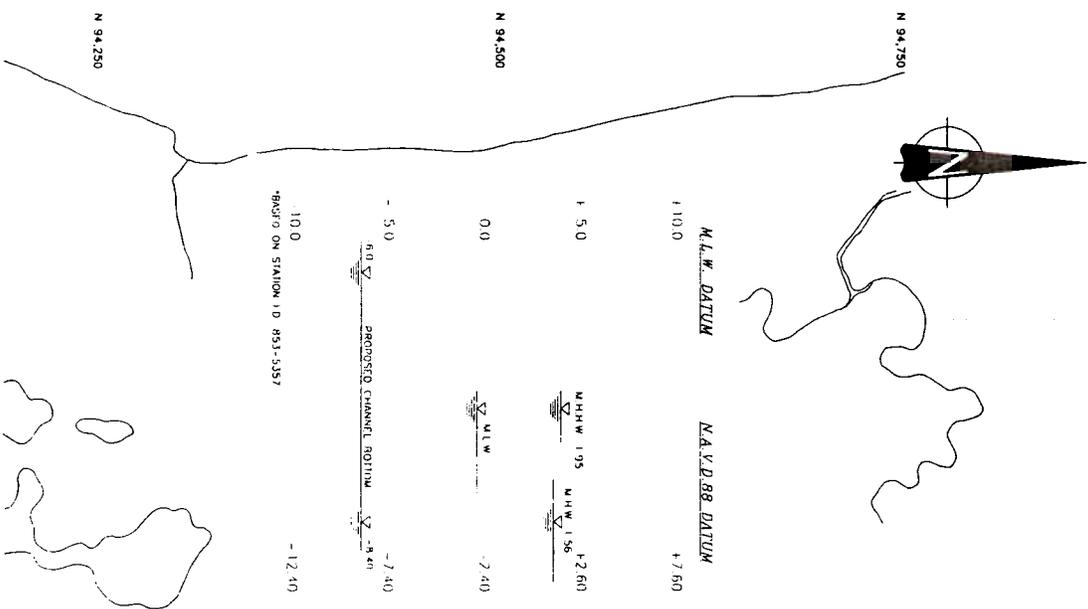
LONG REACH TYPICAL CHANNEL

NOT TO SCALE



Job No. 236321	No. 4	BOROUGH OF AVALON CAPE MAY COUNTY, NEW JERSEY 2007 MAINTENANCE DREDGING LONG REACH & WHALE HARBOR LONG REACH - STA. 40+00 TO STA. 60+50 WHALE HARBOR - STA. 0+00 TO STA. 11+00		 Certificate No. 240A28016600 833 Route 9 North Cape May Court House, NJ 08210 P 609.465.9377 F 609.465.5270	THOMAS R. THOMAS Professional Engineer -
		8/0 4	Total 8		

Contract No.



WHALE HARBOR TYPICAL CHANNEL

NOT TO SCALE

PROPOSED ACTING AREA TO BE DREDGED FOR
 OUTLET SHALL BE THE RESPONSIBILITY OF THE
 INDIVIDUAL HOMEOWNER

EXISTING PRIVATE BULKHEAD (TYP)

GENERAL NOTES

1. THIS PLAN IS BASED ON DIGITAL AERIAL PHOTOGRAPHY BY PROMAPS IN MARCH 2005.
2. BATHYMETRIC SURVEY PERFORMED BY S.T. HUDSON ENGINEERS THE WEEK OF MAY 6, 2007.
3. MEAN HIGH WATER AND MEAN LOW WATER ELEVATIONS IN NAVD 1988 TAKEN FROM NEW JERSEY TIDAL BENCHMARK NETWORK STATION ID 853-5357 AND N.G.S. MONUMENT JU2340.



IORNTON N.J. Lic. No. 24GE04177000 		
Checked	Approved	Date
TRT	TRT	06/15/07

Date	Revision

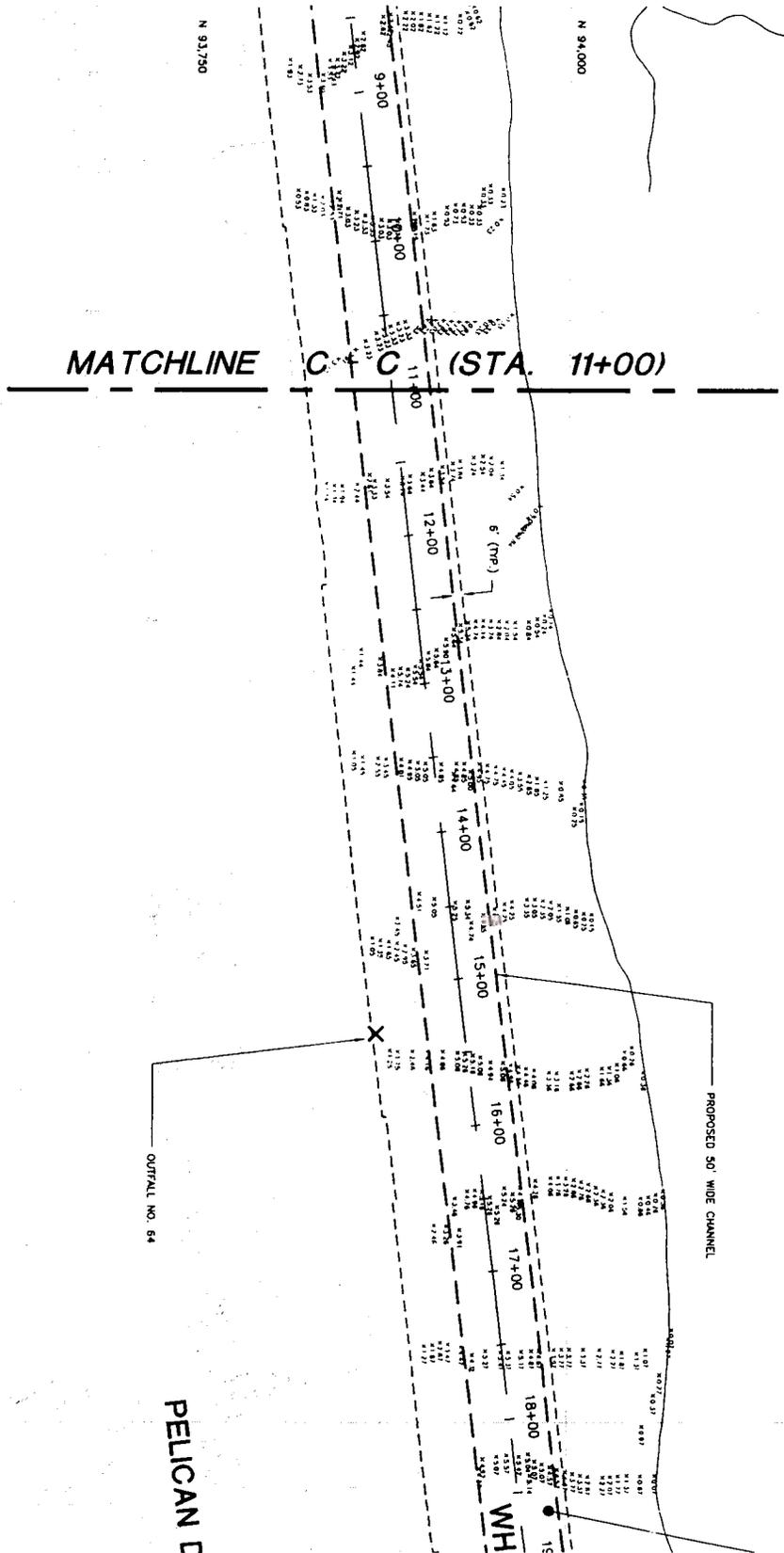
N 93,500

E 422,500

E 422,750

E 423,000

N 97,500



WHALE HARBOR D



SCALE IN FT

DREDGE PLAN



DRIVE

PROJECT DREDGE LIMIT IS WATERWARD FACE OF BULKHEAD

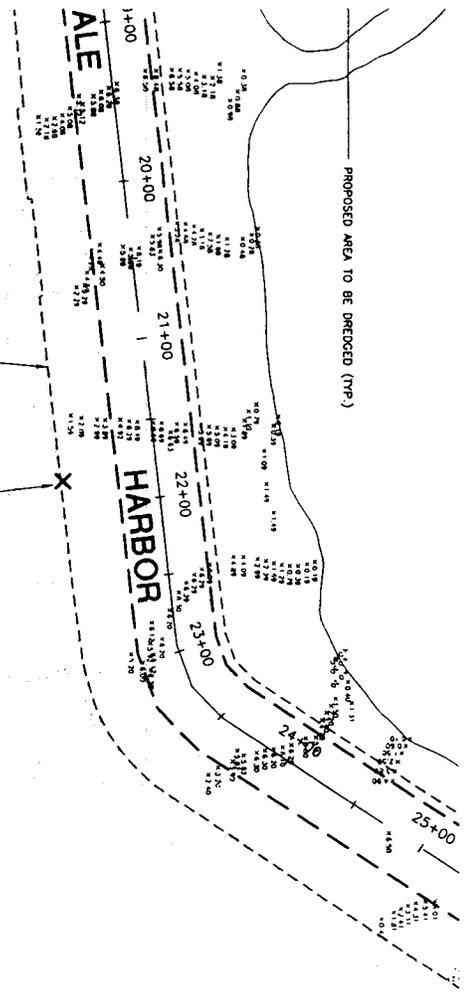
OUTFALL NO. 63

N 97,250

N 98,250

N 98,250

N 98,250



BOROUGH OF AVALON
 CAPE MAY COUNTY, NEW JERSEY
**2007 MAINTENANCE DREDGING
 LONG REACH & WHALE HARBOR**
 WHALE HARBOR - STA. 11+00 TO STA. 29+00



Certificate No. 240A28016800

833 Route 9 North
 Cape May Court House, NJ 08210
 P 609.465.9377 F 609.465.5270

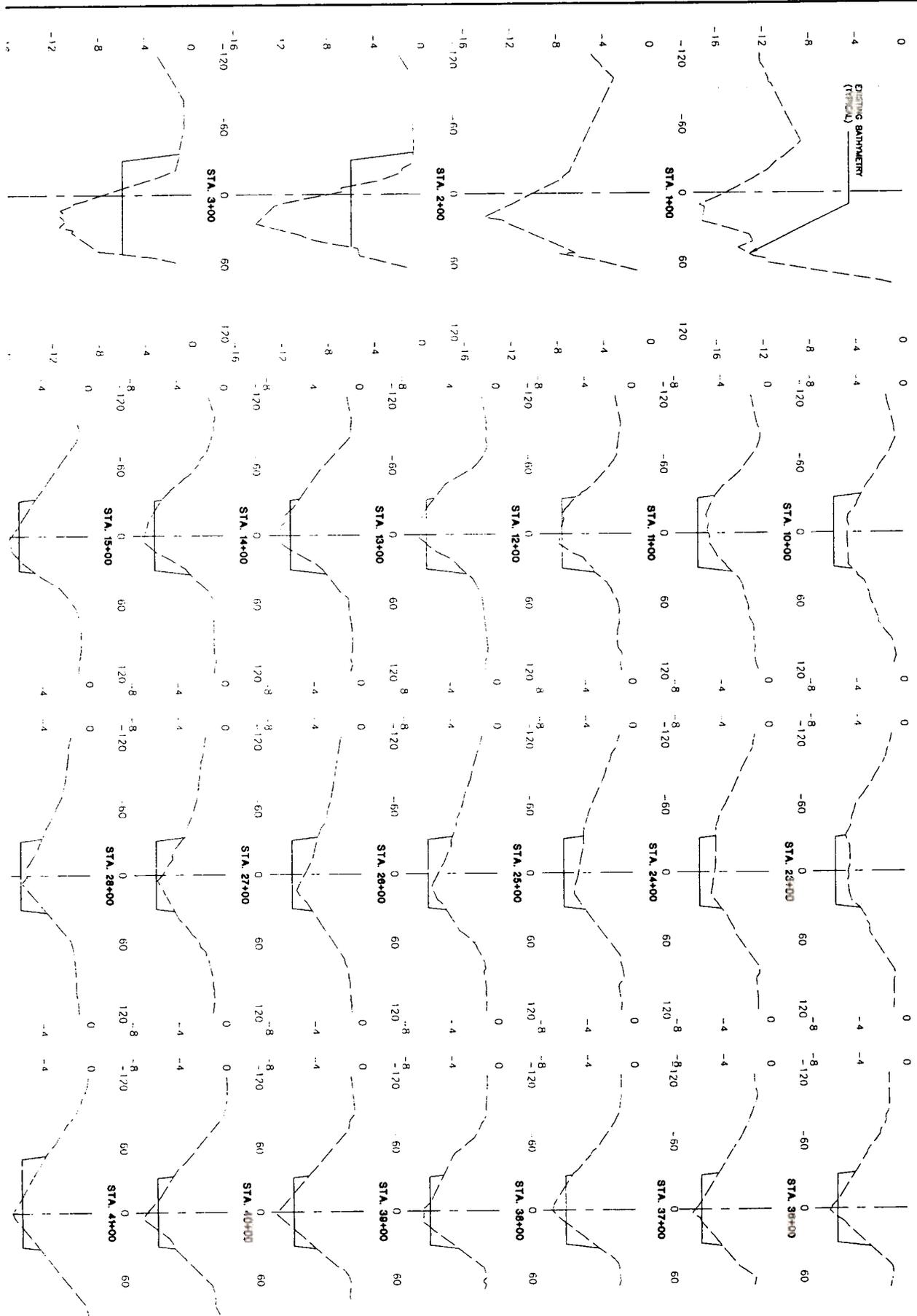
THOMAS R. TH
 Professional Engineer

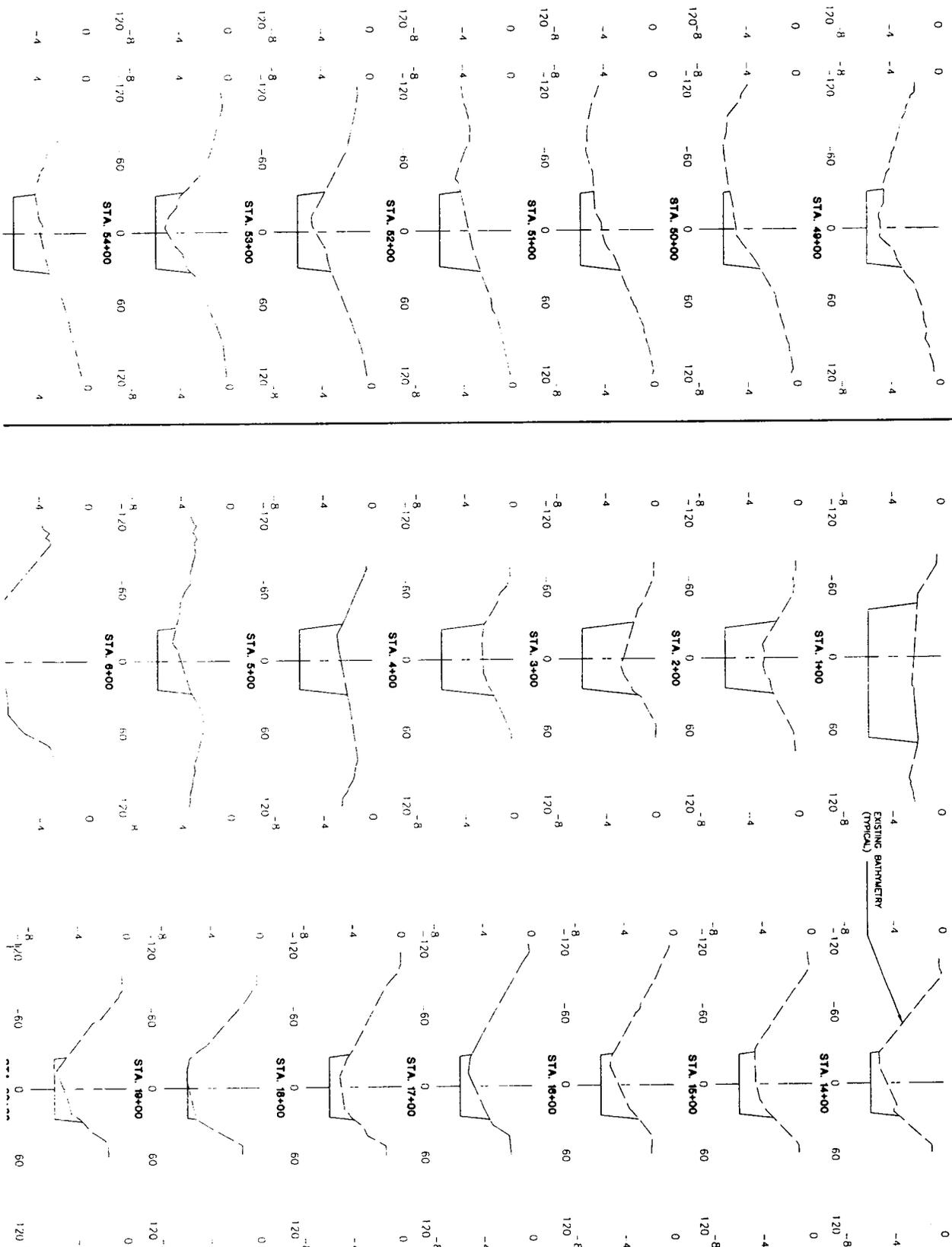
Thomas R. Th

Designed	Drawn
MAW	MAW

Job No.	236021
No.	5
B/O	5
Total	8

Contract No.





IORNTON

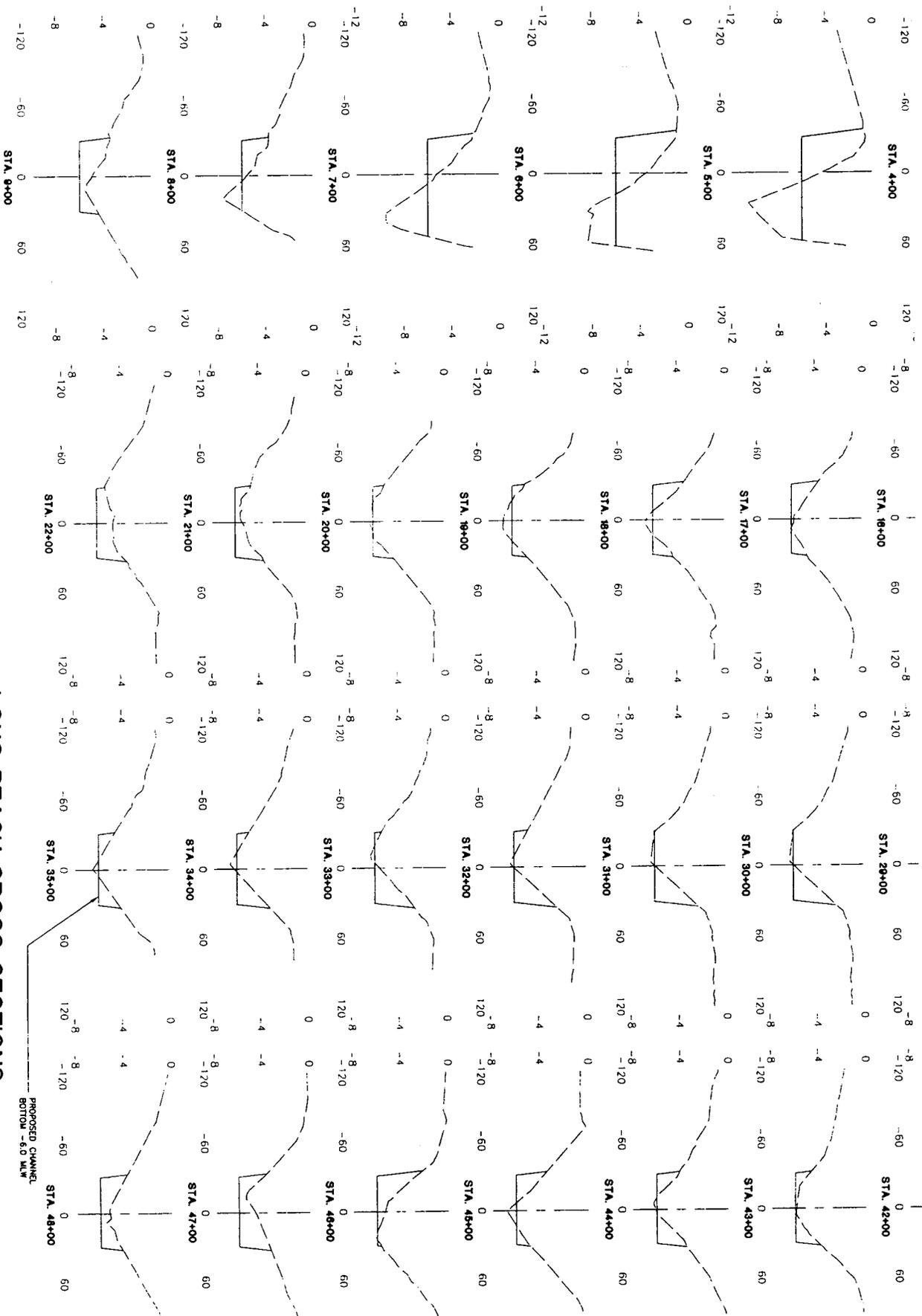
N.J. Lic. No. 24GE04177000

[Handwritten Signature]

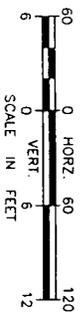
Checked TRT	Approved TRT	Date 06/15/07
----------------	-----------------	------------------

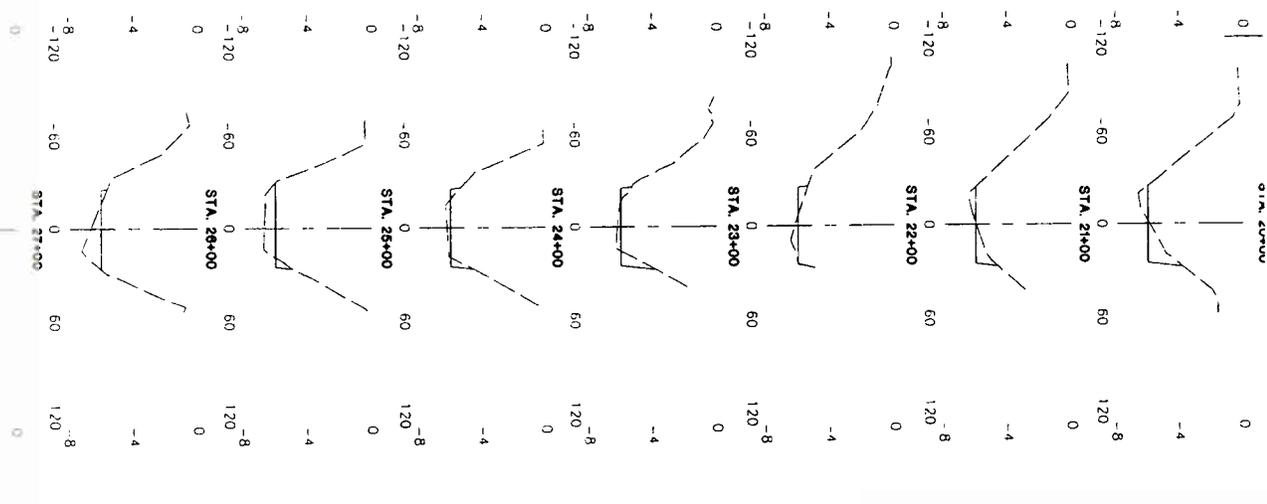
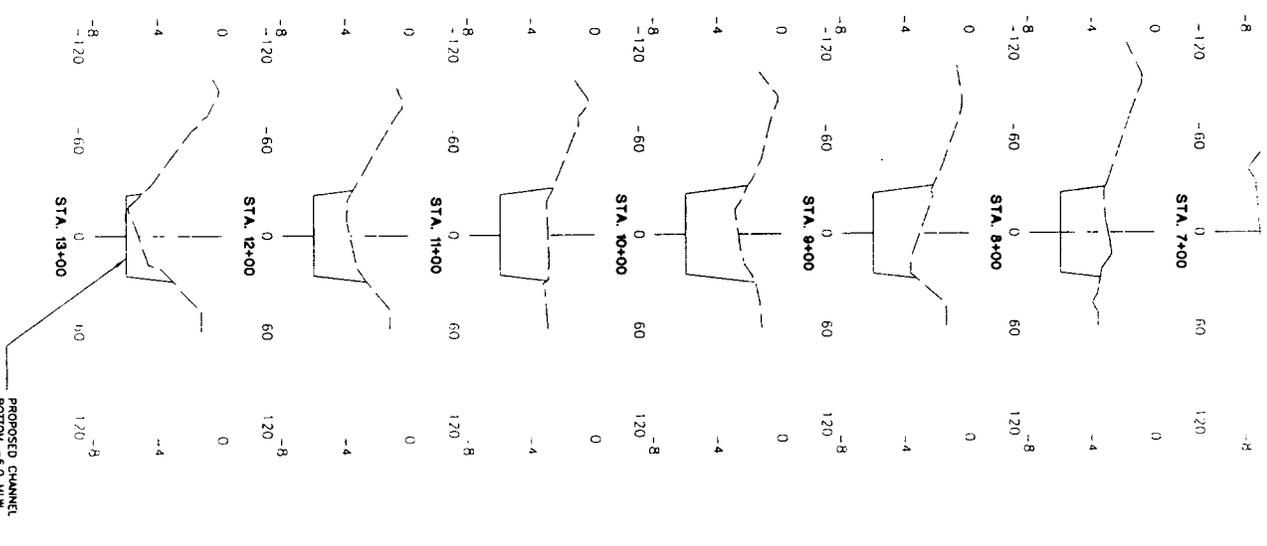
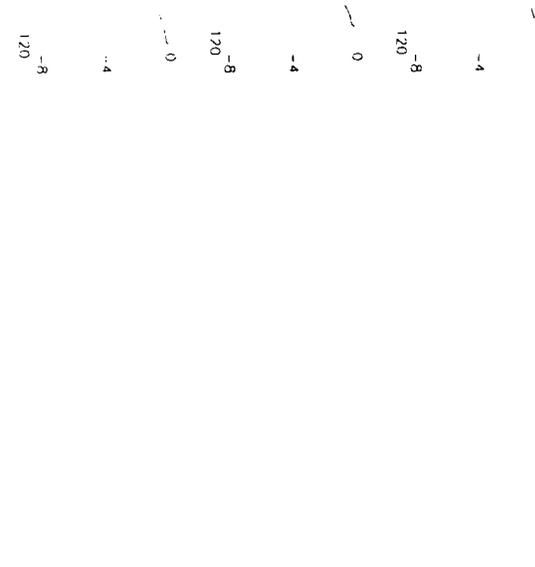
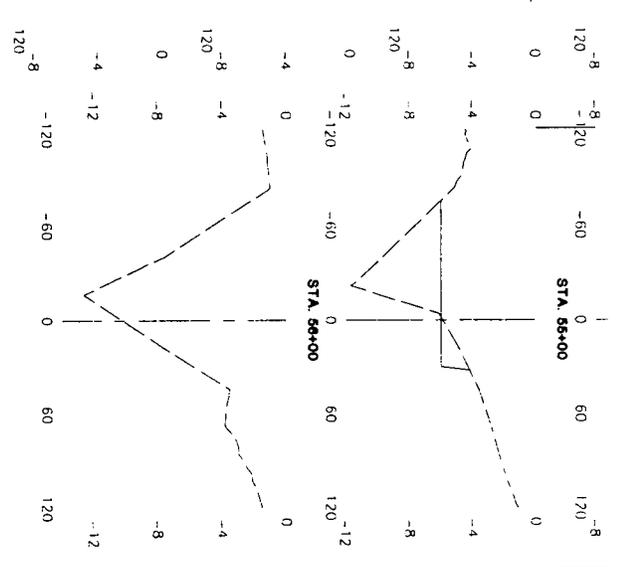
Date	Revision
------	----------

--

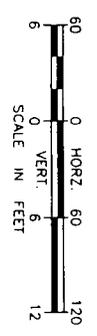


LONG REACH CROSS SECTIONS





WHALE HARBOR CROSS SECTIONS



PROPOSED CHANNEL
BOTTOM -6.0 M/LV

BOROUGH OF AVALON
CAPE MAY COUNTY, NEW JERSEY
**2007 MAINTENANCE DREDGING
LONG REACH & WHALE HARBOR**
LONG REACH & WHALE HARBOR CROSS SECTIONS

Hatch Mott MacDonald
Certificate No. 24GA28016600
833 Route 9 North
Cape May Court House, NJ 08210
P 609.465.9377 F 609.465.5270

THOMAS R. THOMAS
Professional Engineer
TR Thomas
Designed: MAW
Drawn: MAW

DATE	2/16/12
REV.	6
DATE	8/0
REV.	8

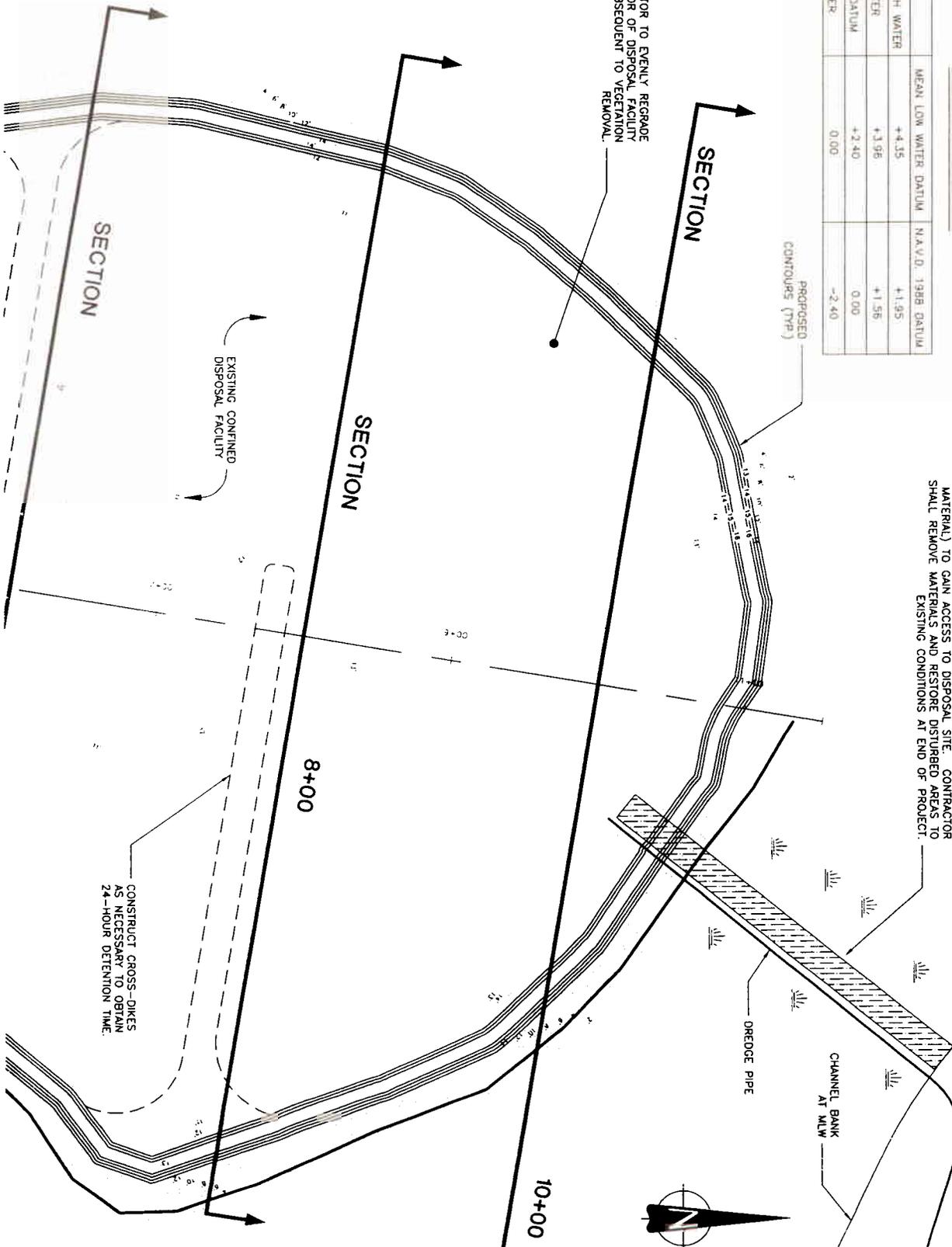
Contract No.

TIDE TABLE

DESCRIPTION	MEAN LOW WATER DATUM	N.A.V.D. 1988 DATUM
MEAN HIGH HIGH WATER	+4.35	+1.95
MEAN HIGH WATER	+3.96	+1.56
N.A.V.D. 1985 DATUM	+2.40	0.00
MEAN LOW WATER	0.00	-2.40

APPROXIMATE LOCATION OF 20'-WIDE CONSTRUCTION ENTRANCE.
 CONTRACTOR TO USE TIMBER MATS (OR OTHER APPROVED MATERIAL) TO GAIN ACCESS TO DISPOSAL SITE. CONTRACTOR SHALL REMOVE MATERIALS AND RESTORE DISTURBED AREAS TO EXISTING CONDITIONS AT END OF PROJECT.

CONTRACTOR TO EVENLY REGRADE INTERIOR OF DISPOSAL FACILITY SUBSEQUENT TO VEGETATION REMOVAL.



CONSTRUCT CROSS-DIKES AS NECESSARY TO OBTAIN 24-HOUR DETENTION TIME.

EXISTING CONFINED DISPOSAL FACILITY

DREDGE PIPE

CHANNEL BANK AT MLW



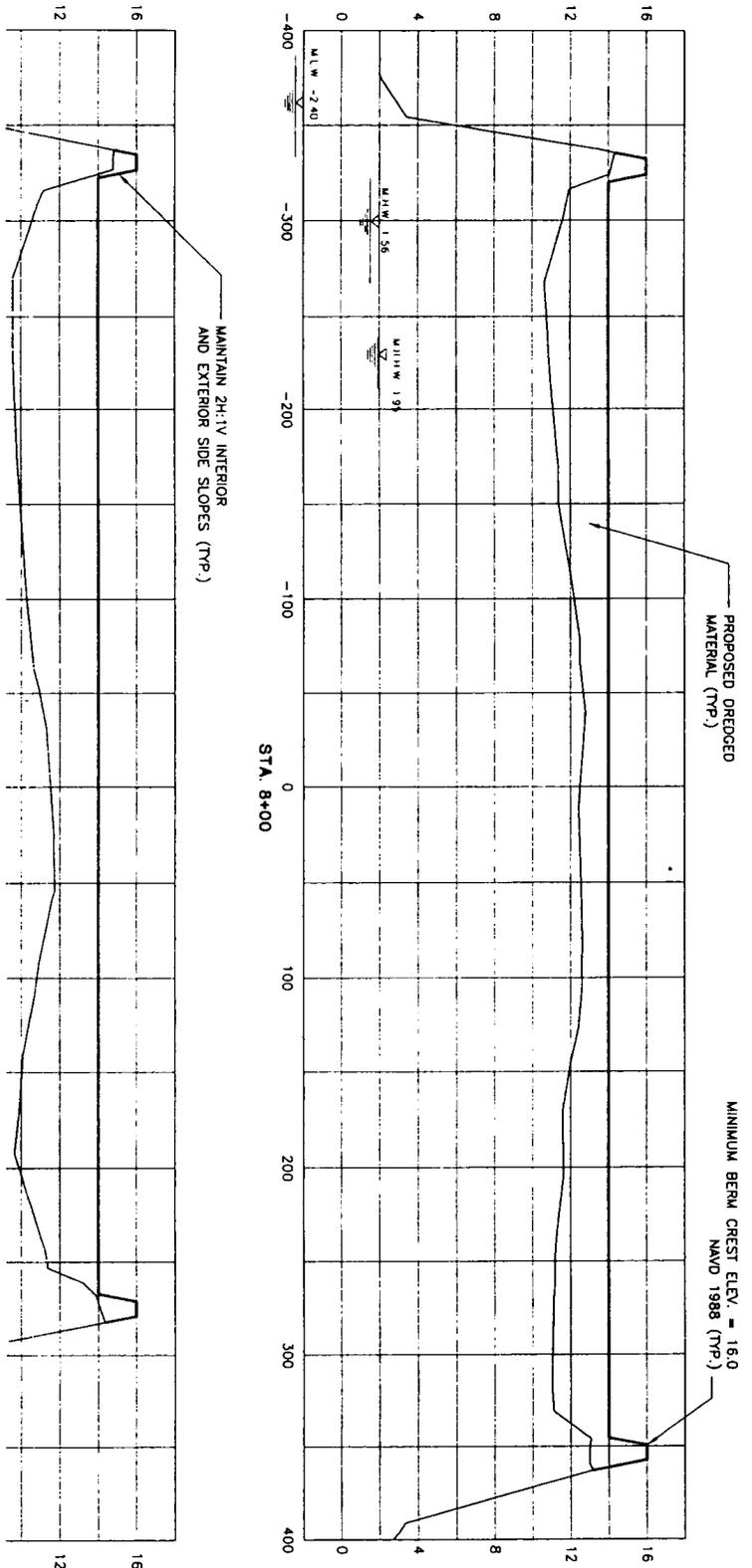
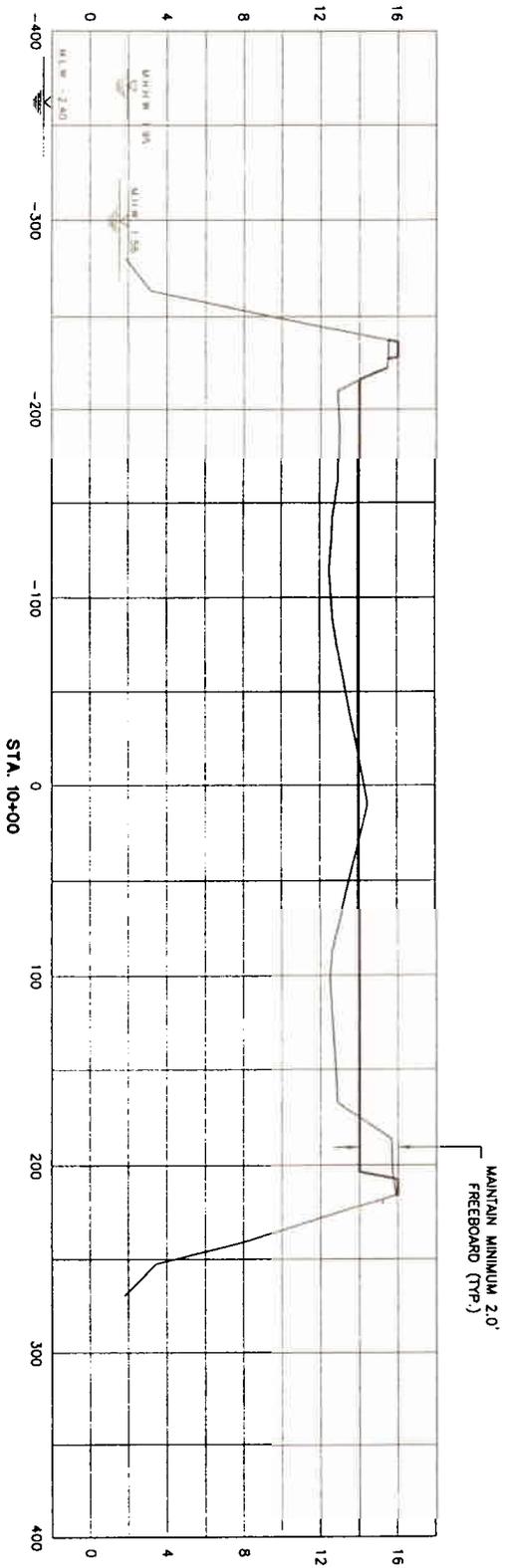
10+00

8+00

SECTION

SECTION

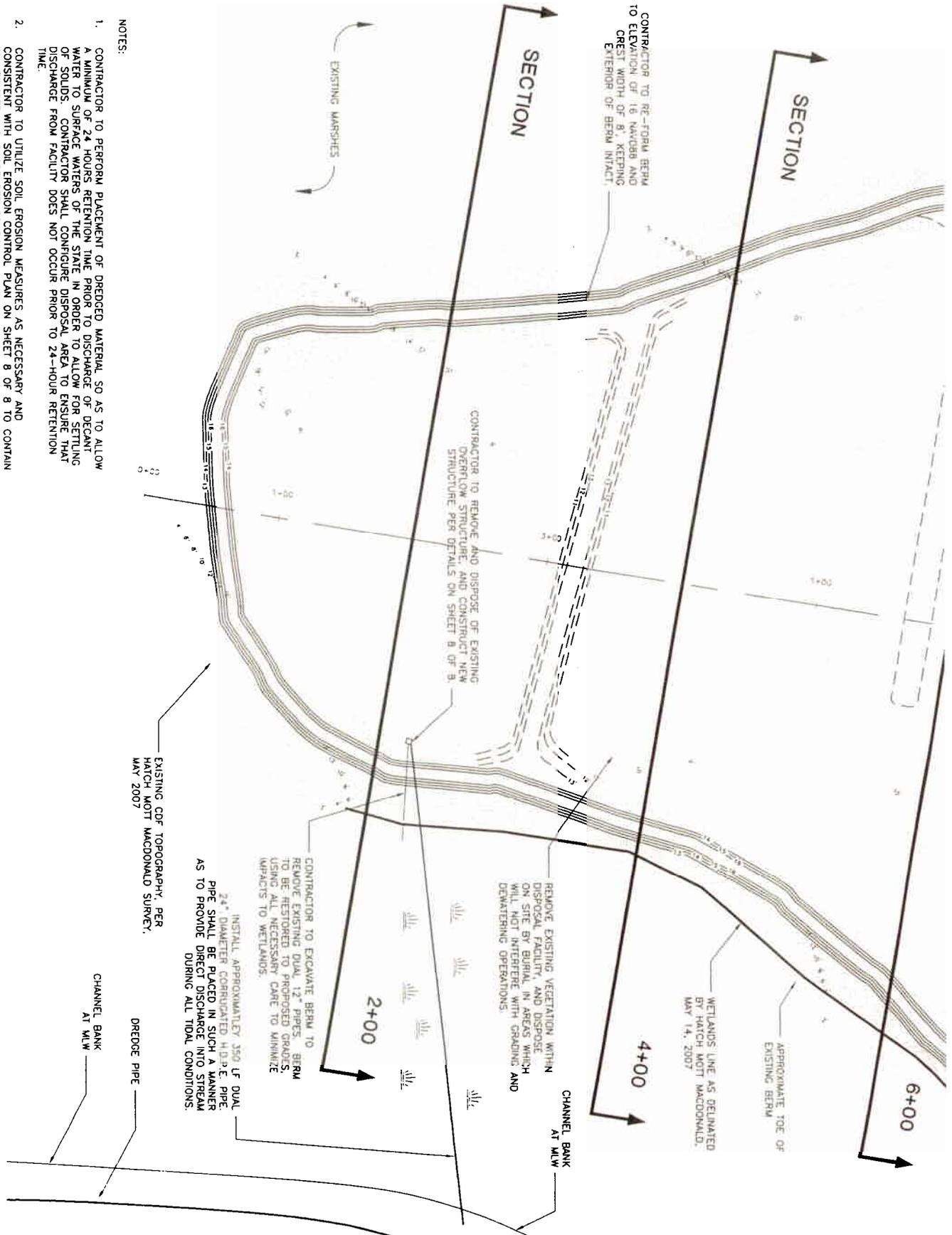
SECTION

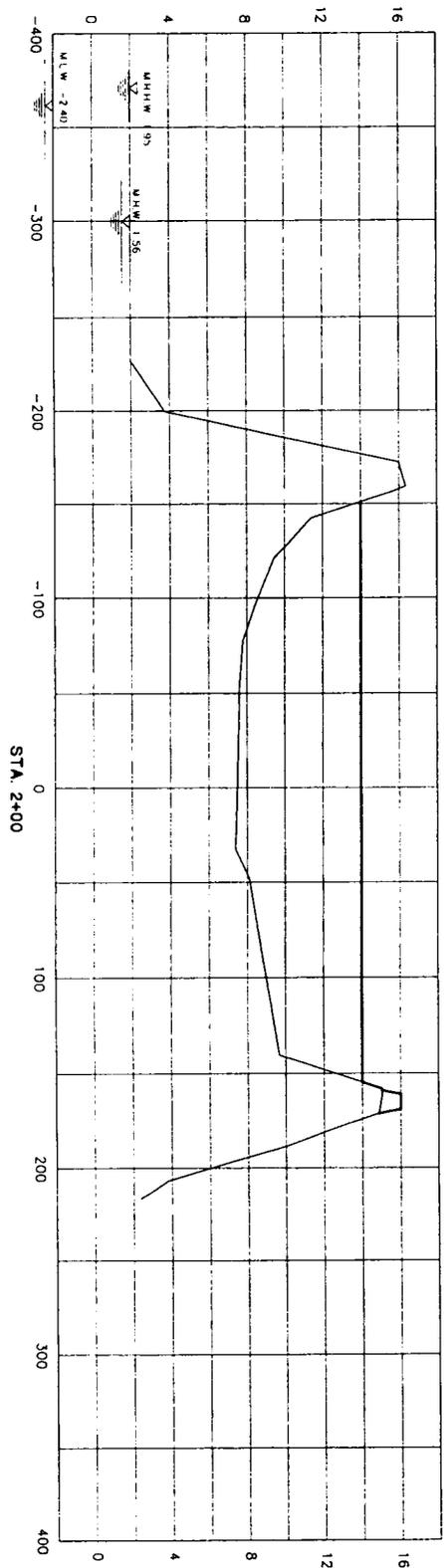
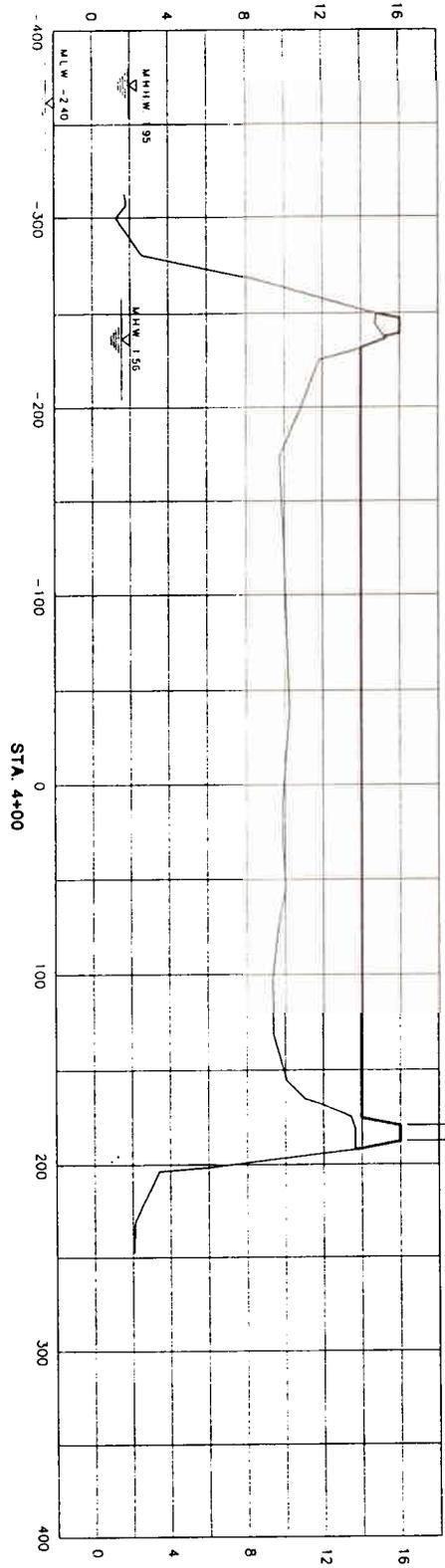
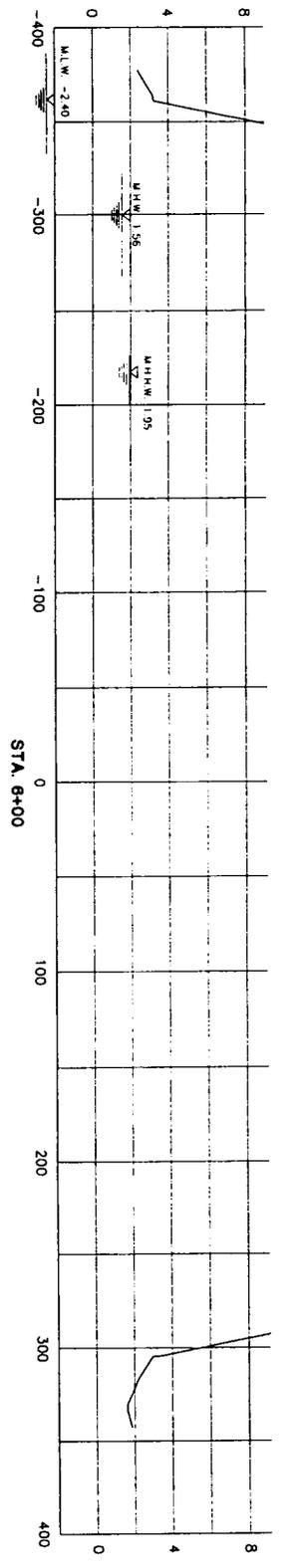


IORNTON N.J. Lic. No. 24GE04177000 			
Checked TRI	Approved TRI	Date 06/15/07	7/12/07 Date
		Per ACCE Comments on July 10, 2007	Revision

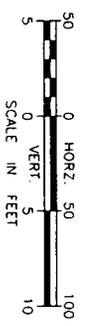
- NOTES:
1. CONTRACTOR TO PERFORM PLACEMENT OF DREDGED MATERIAL SO AS TO ALLOW A MINIMUM OF 24 HOURS RETENTION TIME PRIOR TO DISCHARGE OF DECANT WATER TO SURFACE WATERS OF THE SLAKE IN ORDER TO ALLOW FOR SETTLING OF SOLIDS. CONTRACTOR SHALL CONFIGURE DISPOSAL AREA TO ENSURE THAT DISCHARGE FROM FACILITY DOES NOT OCCUR PRIOR TO 24-HOUR RETENTION TIME.
 2. CONTRACTOR TO UTILIZE SOIL EROSION MEASURES AS NECESSARY AND CONSISTENT WITH SOIL EROSION CONTROL PLAN ON SHEET 8 OF 8 TO CONTAIN ALL RUNOFF AND SUSPENDED SOLIDS.
 3. ALL TRASH, DEBRIS, METAL PIPE, OR OTHER MISCELLANEOUS NON-VEGETATIVE OBJECTS SHALL BE REMOVED FROM THE DISPOSAL FACILITY AND DISPOSED OF PROPERLY.

DISPOSAL PLAN





CDF CROSS SECTIONS



THOMAS R. TH
Professional Engineer -



Certificate No. 24GA28016500

833 Route 9 North
Cape May Court House, NJ 08210
P 609.465.9377 F 609.465.5270

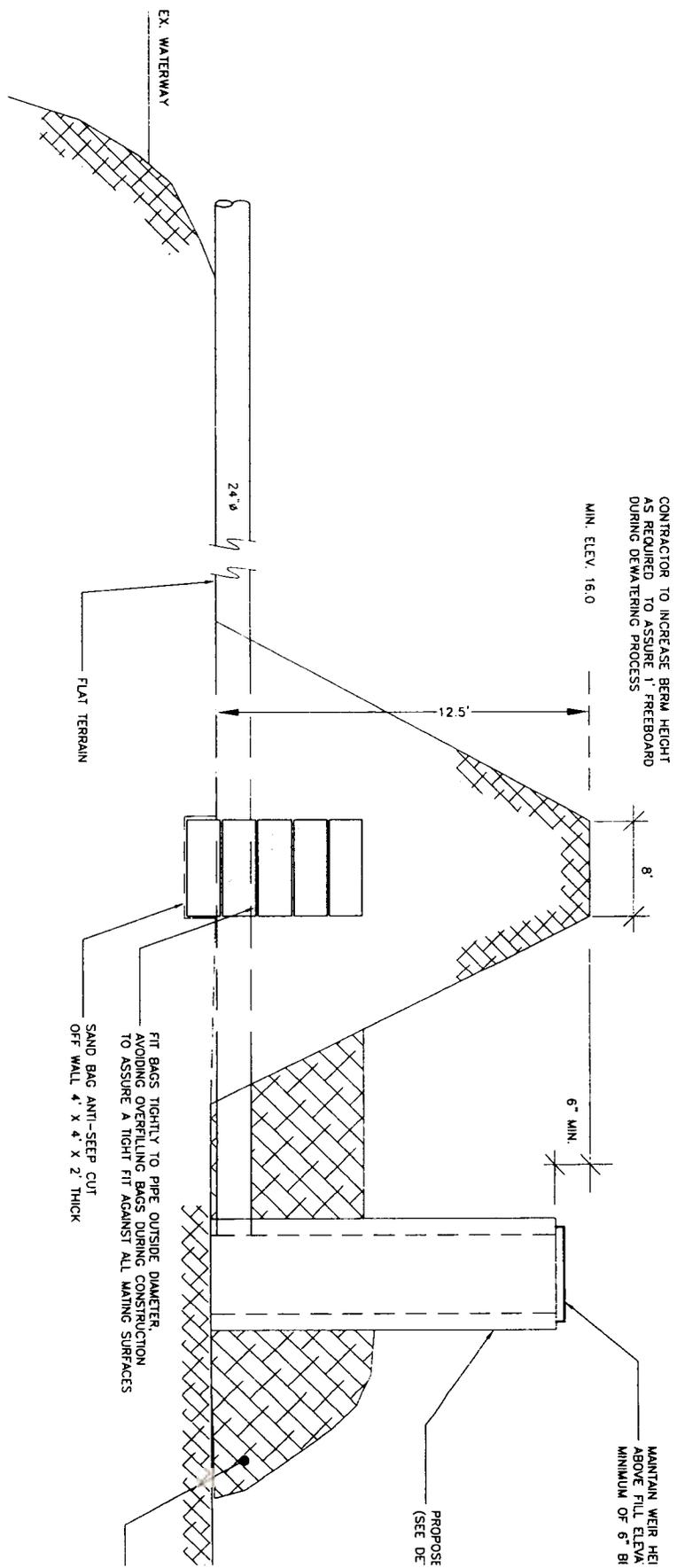
Designed
MAW

Drawn
MAW

BOROUGH OF AVALON
CAPE MAY COUNTY, NEW JERSEY
2007 MAINTENANCE DREDGING
LONG REACH & WHALE HARBOR
CONFINED DISPOSAL FACILITY PLAN

Job No.	236321
No.	7
B/O	7
Total	8

Contract No.



CONTRACTOR TO INCREASE BERM HEIGHT AS REQUIRED TO ASSURE FREEBOARD DURING DEWATERING PROCESS

MIN. ELEV. 16.0

MAINTAIN WEIR HEIGHT ABOVE FILL ELEVATION MINIMUM OF 6" BL

PROPOSE (SEE DE

FIT BAGS TIGHTLY TO PIPE OUTSIDE DIAMETER, AVOIDING OVERLAPPING BAGS DURING CONSTRUCTION TO ASSURE A TIGHT FIT AGAINST ALL MATING SURFACES

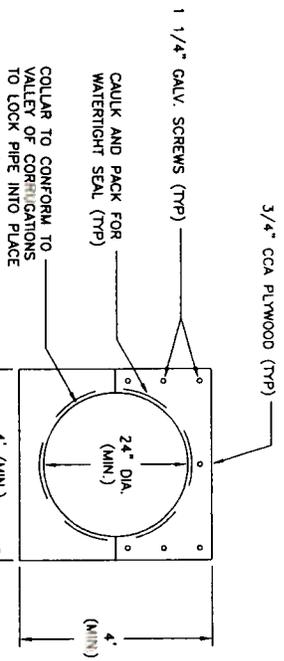
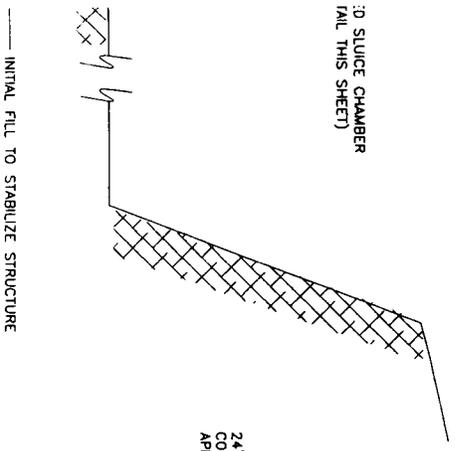
SAND BAG ANTI-SEEP CUT OFF WALL 4' X 4' X 2' THICK

CDF DEWATERING SLUICE CHAMBER DETAIL

NOT TO SCALE

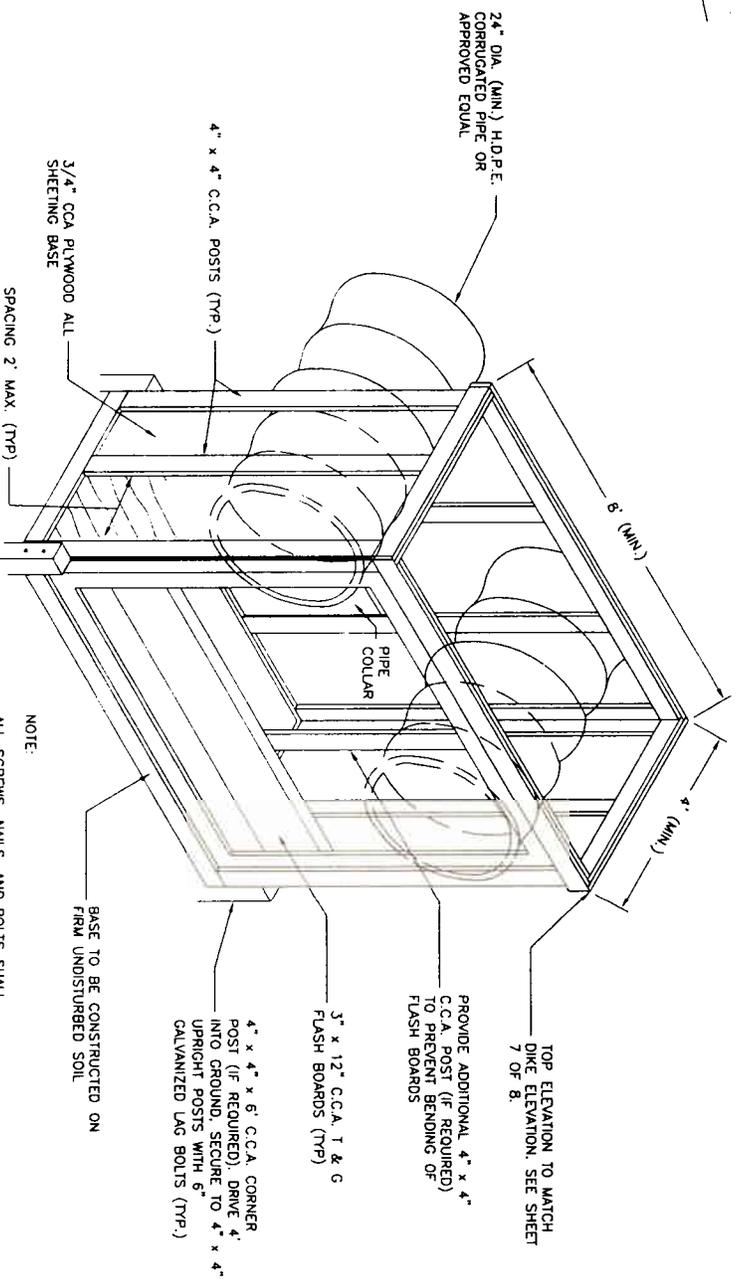
DRY APPROXIMATELY 1' TION AT ALL TIMES AND A LOW DIKE ELEVATION

SLUICE CHAMBER (SEE THIS SHEET)



PIPE COLLAR DETAIL

NOT TO SCALE



NOTE:

ALL SCREWS, NAILS, AND BOLTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.

IORNTON

N.J. Lic. No. 240E04177000

[Signature]

Checked	Approved	Date	Date	Revision
TRT	TRT	06/15/07		

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE TEMPORARY SEEDING. IF THE SEASON PERMITS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
3. PERMANENT VEGETATION TO BE SEEDING OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
5. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
6. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER THAN 3:1).
7. TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50' X 30' X 6" PAD OF 1" TO 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
8. IN ACCORDANCE WITH THE STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDING PREPARATION.
9. THE CAPE MAY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS COMING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A MANNER THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
11. IN THAT N.J.S.A. 4:24-19 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLETED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS WILL HAVE TO BE COMPLETED FIRST TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- *12. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- *13. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
14. ALL EXCESS MATERIALS MUST BE STOCKPILED IN ACCORDANCE WITH THE STANDARDS OF SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
15. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS IN ORDER TO MINIMIZE SEDIMENT TRANSFER.
16. ANY SOIL WASHED, DROPPED, TRACKED OR SPILLED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
17. PUBLIC UTILITIES AND GOVERNMENT ENTITIES SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THEIR RESPECTIVE PERMANENT STRUCTURES WITHIN THE PROJECT LIMITS OF DISTURBANCE.
18. BIODEGRADABLE EROSION CONTROL MATTING (ROTERRA 51 OR EQUIVALENT) SHALL BE PLACED AS DIRECTED BY ENGINEER TO ADDRESS ISOLATED EROSION AREAS. MATTING SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.

* WHERE APPLICABLE

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CONDUCT DREDGING PROCEDURES IN ACCORDANCE WITH P IN THE STATE & FEDERAL PERMITS ISSUED FOR OPERATIONS ASSOCIATED WITH THIS PROJECT AREA.
2. THE CONTRACTOR SHALL BE AWARE OF ENVIRONMENTAL CONCERNS WITHIN THE PROJECT AREA. IMMEDIATE SURROUNDINGS. THE CONTRACTOR SHALL MODIFY HIS CONSTRUCTION PRACTICES TO MEET ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED SPECIES. SHOULD THE PRESENCE OF ANY ENDANGERED SPECIES BE DISCOVERED, THEIR HABITATS WILL BE PROTECTED DURING ALL PHASES OF THE PROJECT IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AND STATE PROTECTION POLICIES.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 25 FOOT BUFFER FROM WETLANDS TH PROJECT AREA.
4. PRE-DREDGE SURVEY WORK SHALL BE CONDUCTED BY THE CONTRACTOR IMMEDIATELY COMMENCEMENT OF THE DREDGING OPERATION. THE PROFILES GENERATED FROM THE UTILIZED IN DETERMINING QUANTITIES OF DREDGE MATERIAL REMOVED FROM THE PROJECT. THESE PROFILES SHALL BE LOCATED ON A MINIMUM 200 LF SPACING ALONG THE PROJECT LENGTH. THE PROFILES SHALL BE PERFORMED WITHIN THE CHANNEL DREDGE LIMIT SHALL SUBMIT A PROPOSED SURVEY AND DREDGE MONITORING PLAN PRIOR TO COMMENCEMENT OF OPERATION.
5. CONTRACTOR SHALL CONDUCT WORK OPERATIONS SO THAT NO DOCKS OR PIERS WILL BE DAMAGED OR AREAS LANDWARD OF THE DESIGNATED PROJECT DREDGE DAMAGE TO PIERS & DOCKS WITHIN THE PROJECT DREDGE LIMITS OR TO PROPERTY DAMAGE LIMITS, WHICH OCCURS AS A RESULT OF THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR'S EXPENSE TO ORIGINAL CONDITIONS.
6. THE CONTRACTOR SHALL MAINTAIN A 5 FOOT BUFFER FROM THE TOP OF CHANNEL EXISTING PRIVATE DOCKS & PIERS WHILE PERFORMING DREDGING WITHIN THE CHANNEL.
7. THE CONTRACTOR SHALL REMOVE DREDGE MATERIAL IN ACCORDANCE WITH THE PLAN SHOWN ON THE DRAWINGS. THE CONTRACTOR WILL UTILIZE BEST METHODS TO HOLD MATERIAL TO DESIGNATED SLOPES AND ELEVATIONS.
8. ALL ELEVATIONS ARE REFERENCED TO NAVD 1988, AND/OR MLLW AS NOTED.
9. HORIZONTAL LOCATION REFERENCE GRID BASED ON NAD 1983.
10. THE DISPOSAL FACILITY MUST BE MANAGED PRIOR TO AND DURING THE DEPOSITION TO MINIMIZE SEDIMENTATION OR TURBIDITY FROM ENTERING SURROUNDING WATERS. THIS SHALL INCLUDE BUT IS NOT LIMITED TO DIKE REGRADING, OVERFLOW CONTROL SYSTEMS AND VEGETATIVE STABILIZATION IF NECESSARY.
11. THE CONTRACTOR SHALL REMOVE ANY NON-BIODEGRADABLE MATERIAL USED IN DISEMPOWERMENT NO LATER THAN ONE (1) MONTH AFTER COMPLETION OF DEPOSITION (MATERIAL).
12. THE MINIMUM RETENTION TIME OF THE DREDGE MATERIAL IN THE DISPOSAL FACILITY TO ALLOW FOR SUFFICIENT SETTLING OF SOLIDS PRIOR TO DISCHARGE OF THE DECANTED SURFACE WATERS OR THE STATE.
13. THE SEDIMENT IS AUTHORIZED FOR UNRESTRICTED USE PROVIDED IT IS APPLIED IN SUCH A MANNER AS NOT CAUSE EROSION OR SEDIMENTATION INTO ADJACENT WATERS, WETLANDS, BAYS OR BEACHES. THE DREDGE MATERIAL MAY NOT BE PLACED IN THESE SPECIFIED AREAS.
14. IN ORDER TO PROTECT SHELLFISHERIES, NO RETURN WATER FROM THE DISPOSAL FACILITY SHALL BE DISCHARGED INTO INGRAM THOROFARE. RETURN WATER FROM THE DISPOSAL FACILITY SHALL BE DISCHARGED INTO GRAVENS THOROFARE ONLY.
15. IF DREDGE MATERIAL IS CONVEYED TO THE DISPOSAL FACILITY VIA PRELINE, THE PRELINE SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. THE PRELINE SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. THE PRELINE SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. THE PRELINE SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR.
16. THE CONTRACTOR SHALL USE TIMBER OR STEEL SHEET PILE TO GAIN ACCESS TO DREDGE MATERIAL IN ORDER TO LIMIT DAMAGE TO WETLANDS BY MACHINERY. ALL ACCESS MATERIALS SHALL BE RESTORED TO ORIGINAL CONDITIONS AFTER THE PROJECT.
17. ANY TRASH, DEBRIS, OR OTHER MISCELLANEOUS OBJECTS REMOVED FROM THE DREDGE SHALL NOT BE PLACED IN THE DISPOSAL FACILITY BUT SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR.

SLUICE CHAMBER DETAIL

NOT TO SCALE

PROVISIONS DELINEATED PROJECT. OBJECT SITE AND ITS PROCEDURES AS THREATENED AND DEFENSED OR PROTECTED OF CONSTRUCTION IN ROUGHOUT DREDGE

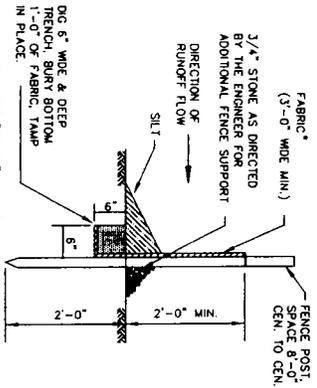
PRIOR TO THE SURVEY WILL BE PROPOSED OF PAYMENT. ENTIRE PROJECT SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTAINING DREDGING

THIN THE LIMITS ARE DISTURBED. LIMITS ARE RESTORED AT SIDE CUTS TO ALL CHANNEL SECTIONS. CHANNELS TO BE MAINTAINED

OF DREDGE MATERIAL FROM WETLANDS. THIS SHALL BE 24 HOURS OF FACILITY DIKE OF SEDIMENT. SUCH A MANNER SO THAT WETLANDS ARE PROTECTED. SUCH A MANNER SO THAT WETLANDS ARE PROTECTED

PELINE SHALL FOLLOW APPROVAL OF THE PROJECT. PELINE SHALL FOLLOW APPROVAL OF THE PROJECT

DEPOSED BY THE PROJECT. DEPOSED BY THE PROJECT



AT THE COMPLETION OF THE PROJECT AND AFTER SOIL STABILIZATION AND VEGETATIVE GROWTH HAVE BEEN ASSURED, THE SILT FENCE MUST BE COMPLETELY REMOVED AND THE EMBODIMENT TRENCH RESTORED TO A NATURAL CONDITION.

SILT FENCE DETAIL

NOT TO SCALE

THOMAS R. TH
Professional Engineer
Thomas R. Th
Designed: MAW
Drawn: MAW

Hatch Mott MacDonald
Certificate No. 24GA28016600
833 Route 9 North
Cape May Court House, NJ 08210
P 609.465.9377 F 609.465.5270

BOROUGH OF AVALON
CAPE MAY COUNTY, NEW JERSEY
2007 MAINTENANCE DREDGING
LONG REACH & WHALE HARBOR
CONSTRUCTION DETAILS

Job No.	238321
No.	8
B/O	8
Total	8

Contract No.