

DEPARTMENT OF THE ARMY
Wilmington District, Corps of Engineers
Post Office Box 1890
Wilmington, North Carolina 28402-1890
(<http://www.saw.usace.army.mil/wetlands/regtour.htm>)

Action ID No. 200300078

February 7, 2003

PUBLIC NOTICE

The North Carolina Wildlife Resources Commission, 1720 Mail Service Center, Raleigh, North Carolina, has applied for a Department of the Army (DA) permit TO CONSTRUCT A BOAT RAMP, FLOATING DOCKS, BREAKWATER, BULKHEAD, ROAD IMPROVEMENT WITH MANEUVERING AREA, PARKING LOT AND ESTABLISH A NO-WAKE ZONE AT THESE FACILITIES AND THE ADJACENT CANAL, ADJACENT TO THE ATLANTIC INTRACOASTAL WATERWAY (AIWW) TO BE LOCATED UNDERNEATH THE NC 904 BRIDGE, IN THE TOWN OF OCEAN ISLE BEACH, BRUNSWICK COUNTY, NORTH CAROLINA. In order to construct this project 11,000 square feet of shallow bottom will be excavated, 5,238 square feet of non-vegetated wetlands will be filled, and 2,110 square feet of shallow bottom will be filled.

The following description of the work is taken from data provided by the applicant. Plans submitted with the application show the proposed limits of the facility and No-Wake Zone.

The state-owned 3.6 acre project site is located underneath and immediately adjacent to the Ocean Isle Beach Bridge, on the island. The property is roughly 560' by 290' wide. The existing topography ranges in elevation from 15+ down to 5'. The western part of the tract contains Section 404 wetlands and unvegetated and vegetated coastal marsh. The project falls within coastal wetlands, public trust waters, estuarine waters and estuarine shoreline areas of environmental concern. The existing features on the site include riprap rock along one portion of the shoreline abutting the Waterway, a paved road end (Causeway Drive) and an undeveloped dirt road. Bridge pillars supporting the Ocean Isle Beach Bridge are existing and are shown on the site plan.

The purpose of the work is to provide a public boating facility and a No-Wake Zone for safe navigation into and out of the area. Plans showing the work are included with this public notice.

The applicant has determined that the proposed work is consistent with the North Carolina Coastal Zone Management Plan and has submitted this determination to the North Carolina Division of Coastal Management (NCDQM) for their review and concurrence. This proposal shall be reviewed for the applicability of other actions by North Carolina agencies such as:

a. The issuance of a Water Quality Certification under Section 401 of the Clean Water Act by the North Carolina Division of Water Quality (NCDWQ).

b. The issuance of a permit to dredge and/or fill under North Carolina General Statute 113 229 by the North Carolina Division of Coastal Management (NCDCM).

c. The issuance of a permit under the North Carolina Coastal Area Management Act (CAMA) by the North Carolina Division of Coastal Management (NCDCM) or their delegates.

d. The issuance of an easement to fill or otherwise occupy State-owned submerged land under North Carolina General Statute 143-341(4), 146-6, 146-11, and 146-12 by the North Carolina Department of Administration (NCDA) and the North Carolina Council of State.

e. The approval of an Erosion and Sedimentation Control Plan by the Land Quality Section, North Carolina Division of Land Resources (NCDLR), pursuant to the State Sedimentation Pollution Control Act of 1973 (NC G.S. 113 A-50-66).

The requested Department of the Army (DA) permit will be denied if any required State or local authorization and/or certification are denied. No DA permit will be issued until a State coordinated viewpoint is received and reviewed by this agency. Recipients of this notice are encouraged to furnish comments on factors of concern represented by the above agencies directly to the respective agency, with a copy furnished to the Corps of Engineers.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The District Engineer's initial determination is that the proposed project would not adversely impact EFH or associated fisheries managed by the South Atlantic or Mid Atlantic Fishery Management Councils or the National Marine Fisheries Service.

This application is being considered pursuant to Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbor Act of 1899 (33 U.S.C. 403). Any person may request, in writing within the comment period specified in the notice, that a public hearing be held to consider this application. Requests for public hearing shall state, with particularity, the reasons for holding a public hearing.

The District Engineer has consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this site is not registered property or property listed as being eligible for inclusion in the Register. Consultation of the National Register is the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently, unknown archeological, scientific, prehistorical, or historical data may be lost or destroyed by work under the requested permit.

The District Engineer, based on available information, is not aware that the proposed activity will affect species, or their critical habitat, designated as endangered or threatened pursuant to the Endangered Species Act of 1973.

The decision, whether to issue a permit, will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts that the proposed activity may have on the public interest requires a careful weighing of all those factors that become relevant in each particular case. The benefits that may be expected to accrue from the proposal must be balanced against its foreseeable detriments. The decision whether to authorize a proposal, and if so the conditions under which it will be allowed to occur, are therefore decided by the outcome of the general balancing process. That decision should reflect the national concern for both protection and use of important resources. All factors that may be relevant to the proposal must be considered including the cumulative effects of it. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards and flood plain values (according to Executive Order 11988), land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the placement of dredged or fill materials in waters of the United States, a permit will be denied if the discharge that would be authorized would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria, a permit will be granted unless the District Engineer decides 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 to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to decide 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 (EA) and/or an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA). Comments are also used to decide the need for a public hearing and to decide the public interest of the proposed activity.

Written comments pertinent to the proposed work, as outlined above, will be received in this office, Attention: Mr. Henry Wicker, until 4:15 p.m., February 24, 2003 or telephone (910) 251-4930.

9. NARRATIVE DESCRIPTION:

The Town of Ocean Isle Beach is located on a barrier island in Brunswick County. The most direct route to Ocean Isle is Highway 904 from U.S. Highway 17. Ocean Isle Beach is bordered by the Atlantic Intracoastal Waterway and the Atlantic Ocean with Tubbs Inlet to the west and Shallotte Inlet to the east. There is a fixed span, high-rise bridge that connects Ocean Isle Beach to the Brunswick County mainland.

The subject of this application is a public boating access area being proposed by the North Carolina Wildlife Resources Commission. The state-owned 3.6 acre project site is located underneath and immediately adjacent to the Ocean Isle Beach bridge, on the island. The property is roughly 560' by 290' wide. The existing topography ranges in elevation from 15'+ down to 5'. The western part of the tract contains federal wetlands and unvegetated and vegetated coastal marsh. The project falls within coastal wetlands, public trust waters, estuarine waters and estuarine shoreline areas of environmental concern.

The existing features on the site include rip rap rock along one portion of the shoreline abutting the Waterway, a paved road end (Causeway Drive) and an undeveloped dirt road. Bridge pillars supporting the Ocean Isle Beach bridge are existing and are shown on the site plan (sheet 3 of 6).

PROPOSED DEVELOPMENT:

The applicants propose to construct 38 parking spaces, a gravel access road with maneuvering area, a boat ramp, two floating docks flanking the proposed ramp, a bulkhead and a breakwater. Stormwater infiltration basins are also proposed features and are shown on the site plan. The improved access road, parking, part of the maneuvering area and infiltration basins are all located on high ground. A wheelchair access walkway from the parking area is also planned. The applicant estimates that about 1.7 acres of land will be disturbed for this project.

The proposed boat ramp, floating docks and bulkhead/breakwater walls would be located below mean high water. The proposed double lane concrete boat ramp has been designed at 107' long by 28' wide. The boat ramp is to be constructed of a 1' stone base, 6" #57 stone, and a 6" concrete slab. The proposed ramp would extend approximately 75' below mean high water. A 20' x 46' concrete apron is to be constructed at the entrance to the boat ramp. Two 8' by 94' wood floating docks are proposed; one on each side of the boat ramp. These docks would provide access to those individuals putting in and taking out their boats at this facility. A vinyl sheet pile breakwater wall is proposed along side the proposed ramp extending along the excavated channel to mean low water. This wall would offer protection from passing boat wakes and should also facilitate keeping the excavated channel clear of accumulated sediments. These proposed vinyl walls extend 120' below mean high water, farther into the waterbody than any other of the proposed structures. The ends of the vinyl walls would be approximately 92' from the fender wall underneath the bridge.

Excavation is proposed for the waterward end of the proposed ramp. About 6975 square feet of shallow bottom would be dredged in the vicinity of the proposed ramp down to an elevation of -5.5' mean low water. See sheet 5 of 6 for existing water depths and elevations. The applicant has calculated about 1,508 cubic yards of spoil material would be excavated from below mean high water. The material would be excavated by mechanical means such as trackhoe. The maneuvering area has been designated by the applicant as the proposed spoil containment area (see sheet 2 of 6) for the dredge spoil. Once dewatered, the material would be spread out and contained on site by the proposed bulkhead. A 488'+ bulkhead wall is proposed around the maneuvering area identified as "spoil containment area" on the plans and transitions into a breakwater wall between mean high and mean low water along the sides of the proposed ramp. As the bulkhead transitions into a breakwater along side the boat ramp, the wall is proposed to be constructed leaving a 2" open space every 2 feet.

Approximately 5,238 square feet of non-vegetated coastal marsh is slated to be filled as a result of this project. Irregularly flooded, non-vegetated coastal marsh to be filled lies within the maneuvering area and ramp approach as identified on sheet 3 of 6. The "CAMA" line on sheet 3 of 6 signifies CAMA jurisdictional wetlands. The appearance of the wetland area in the field is sandy substrate, regularly and irregularly flooded and mostly devoid of vegetation due to vehicles currently using the unimproved boat ramp area. Coastal wetland plants such as *Salicornia spp.* and *Distichlis spicata* are growing and flourishing around the bridge pillars where people do not drive. Large expanses of *spartina alterniflora* lie to the west of the project area. Initially the maneuvering area would be used to dewater and store the dredge spoil out of the Intracoastal Waterway. The maneuvering area is to be bulkheaded prior to the excavation work commencing. The dredge spoil would then be excavated and placed in the maneuvering area for dewatering. Later the spoil area would be leveled out and used for vehicles to turn around and back down the boat ramp.

The waters of the Intracoastal Waterway have been classified as SA by the Division of Water Quality. They are conditionally open to shellfishing. The waters of the Intracoastal Waterway are not a designated Primary Nursery Area as designated by the Division of Marine Fisheries. However, the surrounding marsh areas on this tract and abutting this tract are Primary Nursery Areas. The area has been classified as "Conservation" by the Ocean Isle Beach Land Use Plan.

All of the proposed 38 parking spaces are located on high ground and outside of the 75' estuarine shoreline area of environmental concern (AEC). The proposed gravel access road and most of the maneuvering area are outside of the 75' estuarine shoreline AEC. The upper part of the boat ramp, concrete approach, and a small portion of the maneuvering area are located within the estuarine shoreline area of environmental concern. As previously discussed, a portion of the maneuvering area is located within unvegetated coastal wetlands. The docks, boat ramp and breakwater are located within the public trust and estuarine water areas of environmental concern.

North Carolina Wildlife Resources Commission



RECEIVED
SEP 27 2002
DIVISION OF
COASTAL MANAGEMENT

Division of Engineering Services Brunswick County

Vicinity Map



Ocean Isle Beach Boating Access Area
Facility Renovation and Improvements

Index of Sheets

- Sheet 1 - Title Sheet
- Sheet 2 - Existing Site Plan
- Sheet 3 - Proposed Site Plan
- Sheet 4 - Proposed Elevation
- Sheet 5 - Spot Elevations
- Sheet 6 - Proposed Retaining Wall



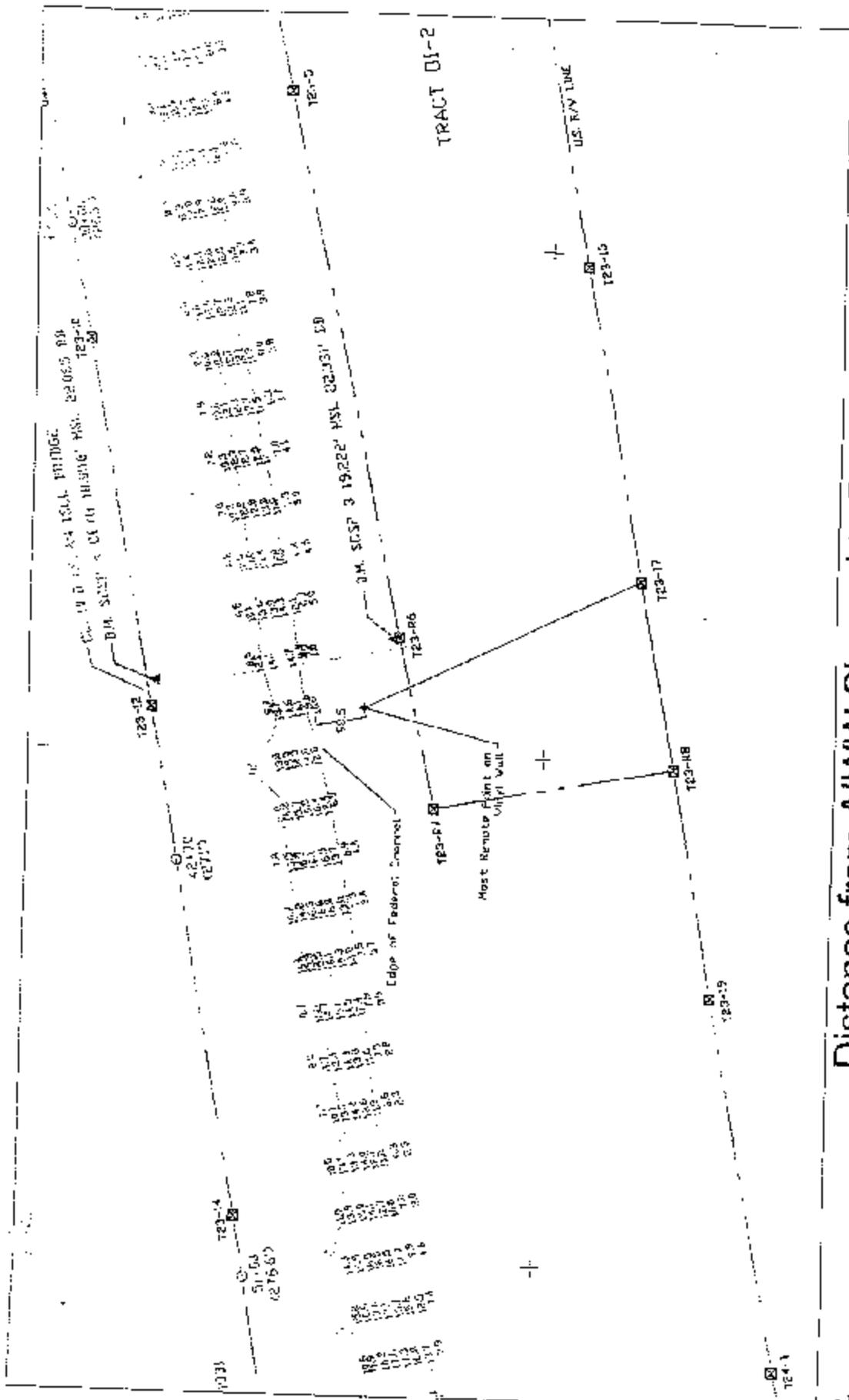
Project Information

At Elevation one Relative to Mean Sea Level (MSL), unless otherwise noted.
MSL = 0.0 Ft.
Mean Low Water (MLW) = -2.4 Ft.
Mean High Water (MHW) = 2.4 Ft.

Allow Quality Coefficient = 50
Quality of Operation when MHW = 1000 cu yds
Quantity of Operation when MLW = 3000 cu yds
Quantity of Operation when MSL = 5000 cu yds
Quantity of Operation when MHW = 1000 cu yds
Quantity of Operation when MLW = 3000 cu yds
Quantity of Operation when MSL = 5000 cu yds

2nd floor elev = 10.000 msl (3rd floor)
1st floor elev = 8.000 msl (2nd floor)
4th floor elev = 12.000 msl (4th floor)
5th floor elev = 14.000 msl (5th floor)
6th floor elev = 16.000 msl (6th floor)
7th floor elev = 18.000 msl (7th floor)
8th floor elev = 20.000 msl (8th floor)
9th floor elev = 22.000 msl (9th floor)
10th floor elev = 24.000 msl (10th floor)
11th floor elev = 26.000 msl (11th floor)
12th floor elev = 28.000 msl (12th floor)
13th floor elev = 30.000 msl (13th floor)
14th floor elev = 32.000 msl (14th floor)
15th floor elev = 34.000 msl (15th floor)
16th floor elev = 36.000 msl (16th floor)
17th floor elev = 38.000 msl (17th floor)
18th floor elev = 40.000 msl (18th floor)
19th floor elev = 42.000 msl (19th floor)
20th floor elev = 44.000 msl (20th floor)
21st floor elev = 46.000 msl (21st floor)
22nd floor elev = 48.000 msl (22nd floor)
23rd floor elev = 50.000 msl (23rd floor)
24th floor elev = 52.000 msl (24th floor)
25th floor elev = 54.000 msl (25th floor)
26th floor elev = 56.000 msl (26th floor)
27th floor elev = 58.000 msl (27th floor)
28th floor elev = 60.000 msl (28th floor)
29th floor elev = 62.000 msl (29th floor)
30th floor elev = 64.000 msl (30th floor)
31st floor elev = 66.000 msl (31st floor)
32nd floor elev = 68.000 msl (32nd floor)
33rd floor elev = 70.000 msl (33rd floor)
34th floor elev = 72.000 msl (34th floor)
35th floor elev = 74.000 msl (35th floor)
36th floor elev = 76.000 msl (36th floor)
37th floor elev = 78.000 msl (37th floor)
38th floor elev = 80.000 msl (38th floor)
39th floor elev = 82.000 msl (39th floor)
40th floor elev = 84.000 msl (40th floor)
41st floor elev = 86.000 msl (41st floor)
42nd floor elev = 88.000 msl (42nd floor)
43rd floor elev = 90.000 msl (43rd floor)
44th floor elev = 92.000 msl (44th floor)
45th floor elev = 94.000 msl (45th floor)
46th floor elev = 96.000 msl (46th floor)
47th floor elev = 98.000 msl (47th floor)
48th floor elev = 100.000 msl (48th floor)
49th floor elev = 102.000 msl (49th floor)
50th floor elev = 104.000 msl (50th floor)
51st floor elev = 106.000 msl (51st floor)
52nd floor elev = 108.000 msl (52nd floor)
53rd floor elev = 110.000 msl (53rd floor)
54th floor elev = 112.000 msl (54th floor)
55th floor elev = 114.000 msl (55th floor)
56th floor elev = 116.000 msl (56th floor)
57th floor elev = 118.000 msl (57th floor)
58th floor elev = 120.000 msl (58th floor)
59th floor elev = 122.000 msl (59th floor)
60th floor elev = 124.000 msl (60th floor)
61st floor elev = 126.000 msl (61st floor)
62nd floor elev = 128.000 msl (62nd floor)
63rd floor elev = 130.000 msl (63rd floor)
64th floor elev = 132.000 msl (64th floor)
65th floor elev = 134.000 msl (65th floor)
66th floor elev = 136.000 msl (66th floor)
67th floor elev = 138.000 msl (67th floor)
68th floor elev = 140.000 msl (68th floor)
69th floor elev = 142.000 msl (69th floor)
70th floor elev = 144.000 msl (70th floor)
71st floor elev = 146.000 msl (71st floor)
72nd floor elev = 148.000 msl (72nd floor)
73rd floor elev = 150.000 msl (73rd floor)
74th floor elev = 152.000 msl (74th floor)
75th floor elev = 154.000 msl (75th floor)
76th floor elev = 156.000 msl (76th floor)
77th floor elev = 158.000 msl (77th floor)
78th floor elev = 160.000 msl (78th floor)
79th floor elev = 162.000 msl (79th floor)
80th floor elev = 164.000 msl (80th floor)
81st floor elev = 166.000 msl (81st floor)
82nd floor elev = 168.000 msl (82nd floor)
83rd floor elev = 170.000 msl (83rd floor)
84th floor elev = 172.000 msl (84th floor)
85th floor elev = 174.000 msl (85th floor)
86th floor elev = 176.000 msl (86th floor)
87th floor elev = 178.000 msl (87th floor)
88th floor elev = 180.000 msl (88th floor)
89th floor elev = 182.000 msl (89th floor)
90th floor elev = 184.000 msl (90th floor)
91st floor elev = 186.000 msl (91st floor)
92nd floor elev = 188.000 msl (92nd floor)
93rd floor elev = 190.000 msl (93rd floor)
94th floor elev = 192.000 msl (94th floor)
95th floor elev = 194.000 msl (95th floor)
96th floor elev = 196.000 msl (96th floor)
97th floor elev = 198.000 msl (97th floor)
98th floor elev = 200.000 msl (98th floor)
99th floor elev = 202.000 msl (99th floor)
100th floor elev = 204.000 msl (100th floor)

Proposed Parking Spaces:
1 - 1000 sq ft
2 - 1500 sq ft
3 - 2000 sq ft
4 - 2500 sq ft
5 - 3000 sq ft
6 - 3500 sq ft
7 - 4000 sq ft
8 - 4500 sq ft
9 - 5000 sq ft
10 - 5500 sq ft
11 - 6000 sq ft
12 - 6500 sq ft
13 - 7000 sq ft
14 - 7500 sq ft
15 - 8000 sq ft
16 - 8500 sq ft
17 - 9000 sq ft
18 - 9500 sq ft
19 - 10000 sq ft
20 - 10500 sq ft
21 - 11000 sq ft
22 - 11500 sq ft
23 - 12000 sq ft
24 - 12500 sq ft
25 - 13000 sq ft
26 - 13500 sq ft
27 - 14000 sq ft
28 - 14500 sq ft
29 - 15000 sq ft
30 - 15500 sq ft
31 - 16000 sq ft
32 - 16500 sq ft
33 - 17000 sq ft
34 - 17500 sq ft
35 - 18000 sq ft
36 - 18500 sq ft
37 - 19000 sq ft
38 - 19500 sq ft
39 - 20000 sq ft
40 - 20500 sq ft
41 - 21000 sq ft
42 - 21500 sq ft
43 - 22000 sq ft
44 - 22500 sq ft
45 - 23000 sq ft
46 - 23500 sq ft
47 - 24000 sq ft
48 - 24500 sq ft
49 - 25000 sq ft
50 - 25500 sq ft
51 - 26000 sq ft
52 - 26500 sq ft
53 - 27000 sq ft
54 - 27500 sq ft
55 - 28000 sq ft
56 - 28500 sq ft
57 - 29000 sq ft
58 - 29500 sq ft
59 - 30000 sq ft
60 - 30500 sq ft
61 - 31000 sq ft
62 - 31500 sq ft
63 - 32000 sq ft
64 - 32500 sq ft
65 - 33000 sq ft
66 - 33500 sq ft
67 - 34000 sq ft
68 - 34500 sq ft
69 - 35000 sq ft
70 - 35500 sq ft
71 - 36000 sq ft
72 - 36500 sq ft
73 - 37000 sq ft
74 - 37500 sq ft
75 - 38000 sq ft
76 - 38500 sq ft
77 - 39000 sq ft
78 - 39500 sq ft
79 - 40000 sq ft
80 - 40500 sq ft
81 - 41000 sq ft
82 - 41500 sq ft
83 - 42000 sq ft
84 - 42500 sq ft
85 - 43000 sq ft
86 - 43500 sq ft
87 - 44000 sq ft
88 - 44500 sq ft
89 - 45000 sq ft
90 - 45500 sq ft
91 - 46000 sq ft
92 - 46500 sq ft
93 - 47000 sq ft
94 - 47500 sq ft
95 - 48000 sq ft
96 - 48500 sq ft
97 - 49000 sq ft
98 - 49500 sq ft
99 - 50000 sq ft
100 - 50500 sq ft
101 - 51000 sq ft
102 - 51500 sq ft
103 - 52000 sq ft
104 - 52500 sq ft
105 - 53000 sq ft
106 - 53500 sq ft
107 - 54000 sq ft
108 - 54500 sq ft
109 - 55000 sq ft
110 - 55500 sq ft
111 - 56000 sq ft
112 - 56500 sq ft
113 - 57000 sq ft
114 - 57500 sq ft
115 - 58000 sq ft
116 - 58500 sq ft
117 - 59000 sq ft
118 - 59500 sq ft
119 - 60000 sq ft
120 - 60500 sq ft
121 - 61000 sq ft
122 - 61500 sq ft
123 - 62000 sq ft
124 - 62500 sq ft
125 - 63000 sq ft
126 - 63500 sq ft
127 - 64000 sq ft
128 - 64500 sq ft
129 - 65000 sq ft
130 - 65500 sq ft
131 - 66000 sq ft
132 - 66500 sq ft
133 - 67000 sq ft
134 - 67500 sq ft
135 - 68000 sq ft
136 - 68500 sq ft
137 - 69000 sq ft
138 - 69500 sq ft
139 - 70000 sq ft
140 - 70500 sq ft
141 - 71000 sq ft
142 - 71500 sq ft
143 - 72000 sq ft
144 - 72500 sq ft
145 - 73000 sq ft
146 - 73500 sq ft
147 - 74000 sq ft
148 - 74500 sq ft
149 - 75000 sq ft
150 - 75500 sq ft
151 - 76000 sq ft
152 - 76500 sq ft
153 - 77000 sq ft
154 - 77500 sq ft
155 - 78000 sq ft
156 - 78500 sq ft
157 - 79000 sq ft
158 - 79500 sq ft
159 - 80000 sq ft
160 - 80500 sq ft
161 - 81000 sq ft
162 - 81500 sq ft
163 - 82000 sq ft
164 - 82500 sq ft
165 - 83000 sq ft
166 - 83500 sq ft
167 - 84000 sq ft
168 - 84500 sq ft
169 - 85000 sq ft
170 - 85500 sq ft
171 - 86000 sq ft
172 - 86500 sq ft
173 - 87000 sq ft
174 - 87500 sq ft
175 - 88000 sq ft
176 - 88500 sq ft
177 - 89000 sq ft
178 - 89500 sq ft
179 - 90000 sq ft
180 - 90500 sq ft
181 - 91000 sq ft
182 - 91500 sq ft
183 - 92000 sq ft
184 - 92500 sq ft
185 - 93000 sq ft
186 - 93500 sq ft
187 - 94000 sq ft
188 - 94500 sq ft
189 - 95000 sq ft
190 - 95500 sq ft
191 - 96000 sq ft
192 - 96500 sq ft
193 - 97000 sq ft
194 - 97500 sq ft
195 - 98000 sq ft
196 - 98500 sq ft
197 - 99000 sq ft
198 - 99500 sq ft
199 - 100000 sq ft
200 - 100500 sq ft
201 - 101000 sq ft
202 - 101500 sq ft
203 - 102000 sq ft
204 - 102500 sq ft
205 - 103000 sq ft
206 - 103500 sq ft
207 - 104000 sq ft
208 - 104500 sq ft
209 - 105000 sq ft
210 - 105500 sq ft
211 - 106000 sq ft
212 - 106500 sq ft
213 - 107000 sq ft
214 - 107500 sq ft
215 - 108000 sq ft
216 - 108500 sq ft
217 - 109000 sq ft
218 - 109500 sq ft
219 - 110000 sq ft
220 - 110500 sq ft
221 - 111000 sq ft
222 - 111500 sq ft
223 - 112000 sq ft
224 - 112500 sq ft
225 - 113000 sq ft
226 - 113500 sq ft
227 - 114000 sq ft
228 - 114500 sq ft
229 - 115000 sq ft
230 - 115500 sq ft
231 - 116000 sq ft
232 - 116500 sq ft
233 - 117000 sq ft
234 - 117500 sq ft
235 - 118000 sq ft
236 - 118500 sq ft
237 - 119000 sq ft
238 - 119500 sq ft
239 - 120000 sq ft
240 - 120500 sq ft
241 - 121000 sq ft
242 - 121500 sq ft
243 - 122000 sq ft
244 - 122500 sq ft
245 - 123000 sq ft
246 - 123500 sq ft
247 - 124000 sq ft
248 - 124500 sq ft
249 - 125000 sq ft
250 - 125500 sq ft
251 - 126000 sq ft
252 - 126500 sq ft
253 - 127000 sq ft
254 - 127500 sq ft
255 - 128000 sq ft
256 - 128500 sq ft
257 - 129000 sq ft
258 - 129500 sq ft
259 - 130000 sq ft
260 - 130500 sq ft
261 - 131000 sq ft
262 - 131500 sq ft
263 - 132000 sq ft
264 - 132500 sq ft
265 - 133000 sq ft
266 - 133500 sq ft
267 - 134000 sq ft
268 - 134500 sq ft
269 - 135000 sq ft
270 - 135500 sq ft
271 - 136000 sq ft
272 - 136500 sq ft
273 - 137000 sq ft
274 - 137500 sq ft
275 - 138000 sq ft
276 - 138500 sq ft
277 - 139000 sq ft
278 - 139500 sq ft
279 - 140000 sq ft
280 - 140500 sq ft
281 - 141000 sq ft
282 - 141500 sq ft
283 - 142000 sq ft
284 - 142500 sq ft
285 - 143000 sq ft
286 - 143500 sq ft
287 - 144000 sq ft
288 - 144500 sq ft
289 - 145000 sq ft
290 - 145500 sq ft
291 - 146000 sq ft
292 - 146500 sq ft
293 - 147000 sq ft
294 - 147500 sq ft
295 - 148000 sq ft
296 - 148500 sq ft
297 - 149000 sq ft
298 - 149500 sq ft
299 - 150000 sq ft
300 - 150500 sq ft
301 - 151000 sq ft
302 - 151500 sq ft
303 - 152000 sq ft
304 - 152500 sq ft
305 - 153000 sq ft
306 - 153500 sq ft
307 - 154000 sq ft
308 - 154500 sq ft
309 - 155000 sq ft
310 - 155500 sq ft
311 - 156000 sq ft
312 - 156500 sq ft
313 - 157000 sq ft
314 - 157500 sq ft
315 - 158000 sq ft
316 - 158500 sq ft
317 - 159000 sq ft
318 - 159500 sq ft
319 - 160000 sq ft
320 - 160500 sq ft
321 - 161000 sq ft
322 - 161500 sq ft
323 - 162000 sq ft
324 - 162500 sq ft
325 - 163000 sq ft
326 - 163500 sq ft
327 - 164000 sq ft
328 - 164500 sq ft
329 - 165000 sq ft
330 - 165500 sq ft
331 - 166000 sq ft
332 - 166500 sq ft
333 - 167000 sq ft
334 - 167500 sq ft
335 - 168000 sq ft
336 - 168500 sq ft
337 - 169000 sq ft
338 - 169500 sq ft
339 - 170000 sq ft
340 - 170500 sq ft
341 - 171000 sq ft
342 - 171500 sq ft
343 - 172000 sq ft
344 - 172500 sq ft
345 - 173000 sq ft
346 - 173500 sq ft
347 - 174000 sq ft
348 - 174500 sq ft
349 - 175000 sq ft
350 - 175500 sq ft
351 - 176000 sq ft
352 - 176500 sq ft
353 - 177000 sq ft
354 - 177500 sq ft
355 - 178000 sq ft
356 - 178500 sq ft
357 - 179000 sq ft
358 - 179500 sq ft
359 - 180000 sq ft
360 - 180500 sq ft
361 - 181000 sq ft
362 - 181500 sq ft
363 - 182000 sq ft
364 - 182500 sq ft
365 - 183000 sq ft
366 - 183500 sq ft
367 - 184000 sq ft
368 - 184500 sq ft
369 - 185000 sq ft
370 - 185500 sq ft
371 - 186000 sq ft
372 - 186500 sq ft
373 - 187000 sq ft
374 - 187500 sq ft
375 - 188000 sq ft
376 - 188500 sq ft
377 - 189000 sq ft
378 - 189500 sq ft
379 - 190000 sq ft
380 - 190500 sq ft
381 - 191000 sq ft
382 - 191500 sq ft
383 - 192000 sq ft
384 - 192500 sq ft
385 - 193000 sq ft
386 - 193500 sq ft
387 - 194000 sq ft
388 - 194500 sq ft
389 - 195000 sq ft
390 - 195500 sq ft
391 - 196000 sq ft
392 - 196500 sq ft
393 - 197000 sq ft
394 - 197500 sq ft
395 - 198000 sq ft
396 - 198500 sq ft
397 - 199000 sq ft
398 - 199500 sq ft
399 - 200000 sq ft
400 - 200500 sq ft
401 - 201000 sq ft
402 - 201500 sq ft
403 - 202000 sq ft
404 - 202500 sq ft
405 - 203000 sq ft
406 - 203500 sq ft
407 - 204000 sq ft
408 - 204500 sq ft
409 - 205000 sq ft
410 - 205500 sq ft
411 - 206000 sq ft
412 - 206500 sq ft
413 - 207000 sq ft
414 - 207500 sq ft
415 - 208000 sq ft
416 - 208500 sq ft
417 - 209000 sq ft
418 - 209500 sq ft
419 - 210000 sq ft
420 - 210500 sq ft
421 - 211000 sq ft
422 - 211500 sq ft
423 - 212000 sq ft
424 - 212500 sq ft
425 - 213000 sq ft
426 - 213500 sq ft
427 - 214000 sq ft
428 - 214500 sq ft
429 - 215000 sq ft
430 - 215500 sq ft
431 - 216000 sq ft
432 - 216500 sq ft
433 - 217000 sq ft
434 - 217500 sq ft
435 - 218000 sq ft
436 - 218500 sq ft
437 - 219000 sq ft
438 - 219500 sq ft
439 - 220000 sq ft
440 - 220500 sq ft
441 - 221000 sq ft
442 - 221500 sq ft
443 - 222000 sq ft
444 - 222500 sq ft
445 - 223000 sq ft
446 - 223500 sq ft
447 - 224000 sq ft
448 - 224500 sq ft
449 - 225000 sq ft
450 - 225500 sq ft
451 - 226000 sq ft
452 - 226500 sq ft
453 - 227000 sq ft
454 - 227500 sq ft
455 - 228000 sq ft
456 - 228500 sq ft
457 - 229000 sq ft
458 - 229500 sq ft
459 - 230000 sq ft
460 - 230500 sq ft
461 - 231000 sq ft
462 - 231500 sq ft
463 - 232000 sq ft
464 - 232500 sq ft
465 - 233000 sq ft
466 - 233500 sq ft
467 - 234000 sq ft
468 - 234500 sq ft
469 - 235000 sq ft
470 - 235500 sq ft
471 - 236000 sq ft
472 - 236500 sq ft
473 - 237000 sq ft
474 - 237500 sq ft
475 - 238000 sq ft
476 - 238500 sq ft
477 - 239000 sq ft
478 - 239500 sq ft
479 - 240000 sq ft
480 - 240500 sq ft
481 - 241000 sq ft
482 - 241500 sq ft
483 - 242000 sq ft
484 - 242500 sq ft
485 - 243000 sq ft
486 - 243500 sq ft
487 - 244000 sq ft
488 - 244500 sq ft
489 - 245000 sq ft
490 - 245500 sq ft
491 - 246000 sq ft
492 - 246500 sq ft
493 - 247000 sq ft
494 - 247500 sq ft
495 - 248000 sq ft
496 - 248500 sq ft
497 - 249000 sq ft
498 - 249500 sq ft
499 - 250000 sq ft
500 - 250500 sq ft
501 - 251000 sq ft
502 - 251500 sq ft
503 - 252000 sq ft
504 - 252500 sq ft
505 - 253000 sq ft
506 - 253500 sq ft
507 - 254000 sq ft
508 - 254500 sq ft
509 - 255000 sq ft
510 - 255500 sq ft
511 - 256000 sq ft
512 - 256500 sq ft
513 - 257000 sq ft
514 - 257500 sq ft
515 - 258000 sq ft
516 - 258500 sq ft
517 - 259000 sq ft
518 - 259500 sq ft
519 - 260000 sq ft
520 - 260500 sq ft
521 - 261000 sq ft
522 - 261500 sq ft
523 - 262000 sq ft
524 - 262500 sq ft
525 - 263000 sq ft
526 - 263500 sq ft
527 - 264000 sq ft
528 - 264500 sq ft
529 - 265000 sq ft
530 - 265500 sq ft
531 - 266000 sq ft
532 - 266500 sq ft
533 - 267000 sq ft
534 - 267500 sq ft
535 - 268000 sq ft
536 - 268500 sq ft
537 - 269000 sq ft
538 - 269500 sq ft
539 - 270000 sq ft
540 - 270500 sq ft
541 - 271000 sq ft
542 - 271500 sq ft
543 - 272000 sq ft
544 - 272500 sq ft
545 - 273000 sq ft
546 - 273500 sq ft
547 - 274000 sq ft
548 - 274500 sq ft
549 - 275000 sq ft
550 - 275500 sq ft
551 - 276000 sq ft
552 - 276500 sq ft
553 - 277000 sq ft
554 - 277500 sq ft
555 - 278000 sq ft
556 - 278500 sq ft
557 - 279000 sq ft
558 - 279500 sq ft
559 - 280000 sq ft
560 - 280500 sq ft
561 - 281000 sq ft
562 - 281500 sq ft
563 - 282000 sq ft
564 - 282500 sq ft
565 - 283000 sq ft
566 - 283500 sq ft
567 - 284000 sq ft
568 - 284500 sq ft
569 - 285000 sq ft
570 - 285500 sq ft
571 - 286000 sq ft
572 - 286500 sq ft
573 - 287000 sq ft
574 - 287500 sq ft
575 - 288000 sq ft
576 - 288500 sq ft
577 - 289000 sq ft
578 - 289500 sq ft
579 - 290000 sq ft
580 - 290500 sq ft
581 - 291000 sq ft
582 - 291500 sq ft
583 - 292000 sq ft
584 - 292500 sq ft
585 - 293000 sq ft
586 - 293500 sq ft
587 - 294000 sq ft
588 - 294500 sq ft
589 - 295000 sq ft
590 - 295500 sq ft
591 - 296000 sq ft
592 - 296500 sq ft
593 - 297000 sq ft
594 - 297500 sq ft
595 - 298000 sq ft
596 - 298500 sq ft
597 - 299000 sq ft
598 - 299500 sq ft
599 - 300000 sq ft
600 - 300500 sq ft
601 - 301000 sq ft
602 - 301500 sq ft
603 - 302000 sq ft
604 - 302500 sq ft
605 - 303000 sq ft
606 - 303500 sq ft
607 - 304000 sq ft
608 - 304500 sq ft
609 - 305000 sq ft
610 - 305500 sq ft
611 - 306000 sq ft
612 - 306500 sq ft
613 - 307000 sq ft
614 - 307500 sq ft
615 - 308000 sq ft
616 - 308500 sq ft
617 - 309000 sq ft
618 - 309500 sq ft
619 - 310000 sq ft
620 - 310500 sq ft
621 - 311000 sq ft
622 - 311500 sq ft
623 - 312000 sq ft
624 - 312500 sq ft
625 - 313000 sq ft
626 - 313500 sq ft
627 - 314000 sq ft
628 - 314500 sq ft
629 - 315



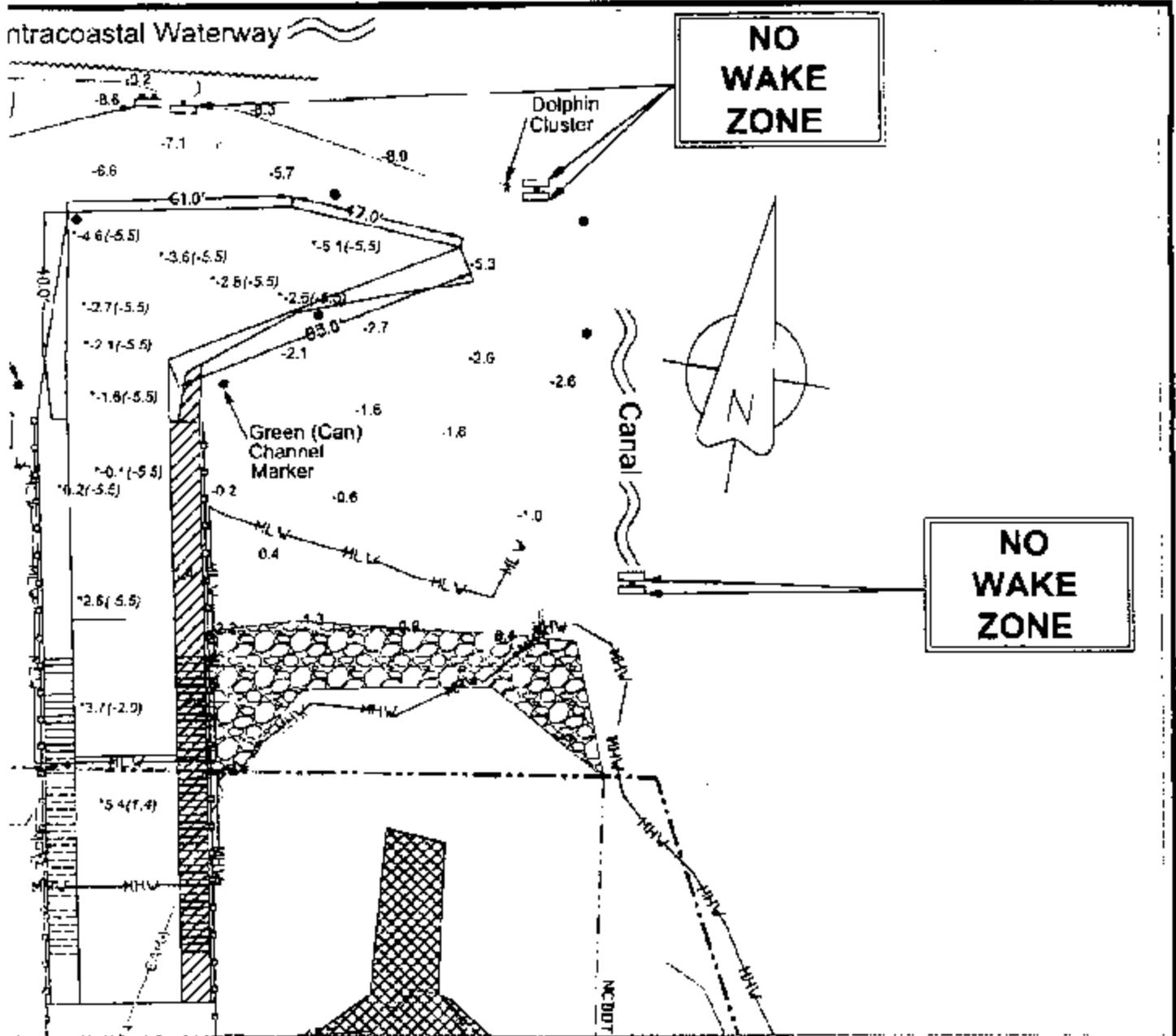
Distance from AWW Channel to Project

Shortest Distance

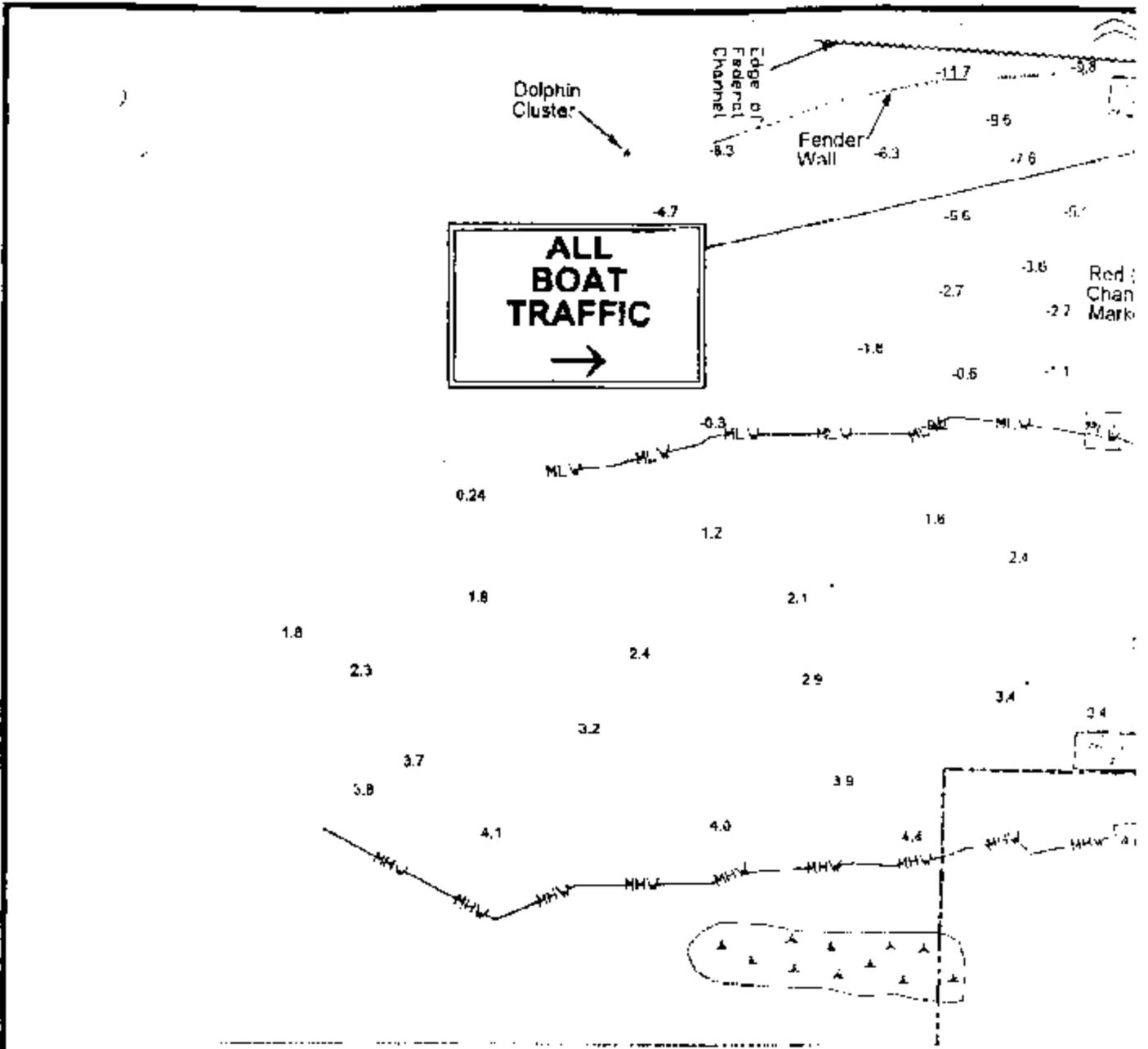
RECEIVED

SEP 27 2002

DIVISION OF
COASTAL MANAGEMENT



North Carolina Wildlife Resources Commission Division of Engineering Services		
Ocean Isle Beach Boating Access Area No Wake Zone		
C:\projects\Ocean Isle Beach\Original001.dwg <small>DATE PLOTTED</small>		7
LAS <small>DESIGN BY</small>	January 6, 2003 <small>DATE</small>	
GSM <small>CHECKED BY</small>	January 6, 2003 <small>DATE</small>	7
LAS <small>BY</small>	Sheet added per COE's request <small>REVISIONS</small>	1/29/03 <small>DATE</small>
Sheet 6 of 7		



Notes

- 1) All spot elevations relative to computed mean low water (MLW) datum.
- 2) MLW = 0.0 feet
- 3) *Existing (Proposed) spot elevation



Scale 1"