APPENDIX H

PROJECT DESIGN DRAWINGS – PROPOSED ACTION

(Prepared by Olsen Associates, Inc.)
NOT FOR PURPOSES OF CONSTRUCTION

VILLAGE OF BALD HEAD ISLAND TERMINAL GROIN PROJECT

GROIN PROFILE

TIDAL DATUMS
MHHW = 2.82 FT
MHW = 2.51 FT
MLT = 0.35 FT
NGVD = 0.00 FT
MLW = -1.81 FT
MLLW = -1.98 FT

LANDWARD ➔ SEAWARD

LOCATION OF GROIN TERMINATION MAY VARY DEPENDING UPON BEACH CONDITIONS AT TIME OF CONSTRUCTION

TIEBACK

BEACH FILL NOT SHOWN

ELEV = +6'

SLOPE

EFFECTIVE CREST

ROCK GROIN

EXCAVATION NOT SHOWN

MLW

MHW

MLW

MHW

DISTANCE (FT) ALONG GROIN CENTERLINE

NOTE: DISTORTED SCALE

CENTERLINE SECTION (D-D)

NOTES: 1) NOT FOR PURPOSES OF CONSTRUCTION
2) FINAL DESIGN ELEVATIONS MAY VARY
3) THE STRUCTURE STEM MAY HAVE MULTIPLE SLOPES AND ELEVATIONS
4) LENGTH IS COMPUTED ALONG GROIN CENTERLINE
5) GROIN LENGTH IS NOT SHORE NORMAL
6) THE STRUCTURE MAY BE CONSTRUCTED IN TWO PHASES
7) A TEMPORARY TRESTLE MAY BE INSTALLED DURING THE PERIOD OF CONSTRUCTION
8) TOTAL STRUCTURE LENGTH: 1900 FT

DATUM - NGVD1929
NOTES:
1) LIMIT OF GROIN FILLET IS MAXIMUM. ACTUAL LIMITS WILL VARY.
2) EASTWARD LIMIT OF FILLET IS DEPENDENT UPON BERM WIDTH.
3) FILLET SAND BERM ELEV AT +8 NGVD (TYP).
4) FILLET VOLUME ESTD AT .5MCY.
5) PHASE II LENGTH - 1900 FT. MOL.
NOTES:
1) PHASE I LENGTH - 1300 FT, MOL.
2) PHASE II LENGTH (TOTAL) - 1900 FT
3) PHASE I DESIGN ELEVATIONS REMAIN UNCHANGED.
NOTES:
1. SEPT. '09 SURVEY FOR REFERENCE ONLY
2. MAY '13 SURVEY - POST DISPOSAL
NOTE:
1) FILL DENSITY TO VARY SPATIALLY DEPENDING ON CONDITION OF BEACH AT TIME OF CONSTRUCTION.
2) GROIN FILLET FILL DENSITY VARIES AND MAY EXCEED 300 CY/FT

LOCAL TIDAL DATUMS (FT)
MHHW +2.8
MHW +2.5
NAVD +1.1
NGVD(29) 0.0
MLW -1.8
MLLW -2.0

NOTE:
1) POINT FILL DENSITY MAY BE TYPICAL OF EITHER S. BEACH OR W. BEACH

VILLAGE OF BALD HEAD ISLAND TERMINAL GROIN PROJECT
TYPICAL BEACH FILL SECTIONS
NOTES:

1) PROJECT BASELINE UTILIZED FOR BEACH MONITORING AND FEDERAL BEACH DISPOSAL PROJECT CONSTRUCTION BY WILMINGTON DISTRICT, USACE.

2) ACTUAL LIMITS OF FILL PLACEMENT BY VILLAGE FOR MITIGATION OR FILLET MAINTENANCE SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF S.B. 110.

3) STA 44+00 IS TYPICAL WESTERN LIMIT OF FEDERAL S. BEACH DISPOSAL.

VILLAGE OF BALD HEAD ISLAND TERMINAL GROIN PROJECT
PROJECT BASELINE AND LIMITS OF FILL

SCALE

0 1,000 2,000 FT

Bald Head Island

PROJECT BASELINE (STA 00+00)

LIMITS OF FUTURE PROJECT RELATED FILL ACTIVITIES BY VILLAGE (SEE NOTE 2)

Atlantic Ocean

OCTOBER 2006 PHOTOGRAPHY
NOTES:
1) FILL PAD SAND TO BE SOURCED FROM DISPOSAL BERM (ABOVE MHWL).
2) FILL PAD TO ALLOW CONTRACTOR EQUIPMENT ACCESS FOR ROCK PLACEMENT SEAWARD OF THE MLWL (OPTIONAL).