APPENDIX G:
November 2015 & April 2016 Monitoring Survey Drawings

This appendix contains reduced versions of the survey drawings produced by McKim and Creed, Inc.[1] for the November 2015 and April 2016 Bald Head Island beach profile and borrow site monitoring surveys.

[1] McKim & Creed, Inc.; 243 North Fron Street; Wilmington, NC 28401

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I, DAVID L. JONES, JR. PLS L-3672,
CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION THAT THE POSITIONAL ACCURACY IS 0.093'; THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56. 1600);

THAT THE GPS SURVEY MADE WAS UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THIS SURVEY.

CLASS OF SURVEY: CLASS C
POSITIONAL ACCURACY: 0.093'
TYPE OF GPS FIELD PROCEDURE: RTK
DATES OF SURVEY: OCTOBER 23 – DECEMBER 12, 2015
DATUM/EPOCH: NC GRID NAD 83/86; VERTICAL NGVD 29
PUBLISHED/FIXED-CONTROL USED: EXISTING COPRS OF ENGINEERS BASELINE
GEOID MODEL: GEOID 03
COMBINED GRID FACTOR: 1.000164272
UNITS: FEET

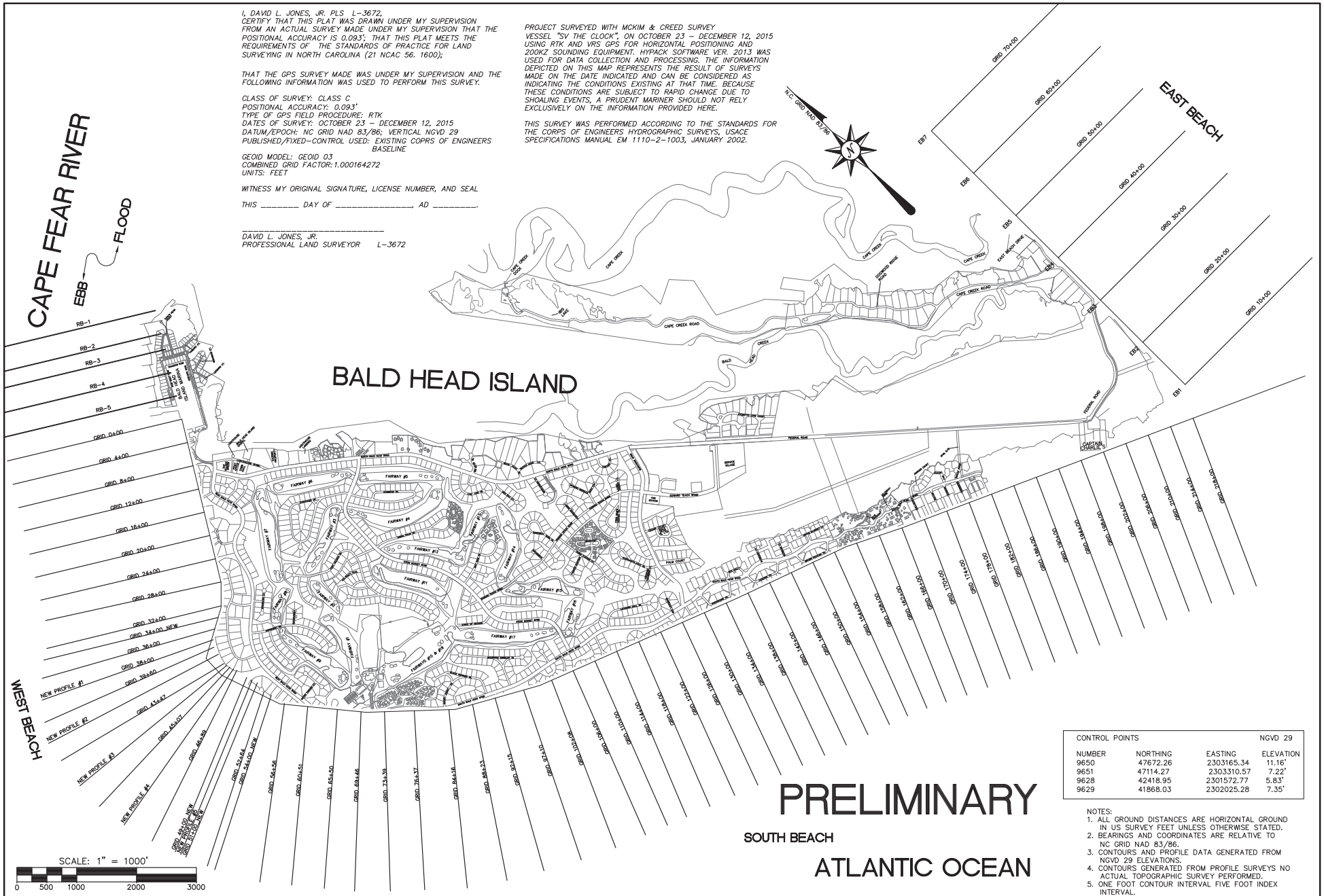
WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER, AND SEAL

THIS _____ DAY OF _____, AD _____.

_____
DAVID L. JONES, JR.
PROFESSIONAL LAND SURVEYOR L-3672

PROJECT SURVEYED WITH MCKIM & CREED SURVEY VESSEL "SV THE CLOCK", ON OCTOBER 23 – DECEMBER 12, 2015 USING RTK AND VRS GPS FOR HORIZONTAL POSITIONING AND 200KZ SOUNDING EQUIPMENT. HYPACK SOFTWARE VER. 2013 WAS USED FOR DATA COLLECTION AND PROCESSING. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME. BECAUSE THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS, A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.

THIS SURVEY WAS PERFORMED ACCORDING TO THE STANDARDS FOR THE CORPS OF ENGINEERS HYDROGRAPHIC SURVEYS, USACE SPECIFICATIONS MANUAL EM 1110-2-1003, JANUARY 2002.



PRELIMINARY

CONTROL POINTS			NGVD 29
NUMBER	NORTHING	EASTING	ELEVATION
9650	47672.26	2303165.34	11.16'
9651	47114.27	2303310.57	7.22'
9628	42418.95	2301572.77	5.83'
9629	41868.03	2302025.28	7.35'

NOTES:
1. ALL GROUND DISTANCES ARE HORIZONTAL GROUND IN US SURVEY FEET UNLESS OTHERWISE STATED.
2. BEARINGS AND COORDINATES ARE RELATIVE TO NC GRID NAD 83/86.
3. CONTOURS AND PROFILE DATA GENERATED FROM NGVD 29 ELEVATIONS.
4. CONTOURS GENERATED FROM PROFILE SURVEYS NO ACTUAL TOPOGRAPHIC SURVEY PERFORMED.
5. ONE FOOT CONTOUR INTERVAL FIVE FOOT INDEX INTERVAL.

DATE:	REVISION:	INT.:

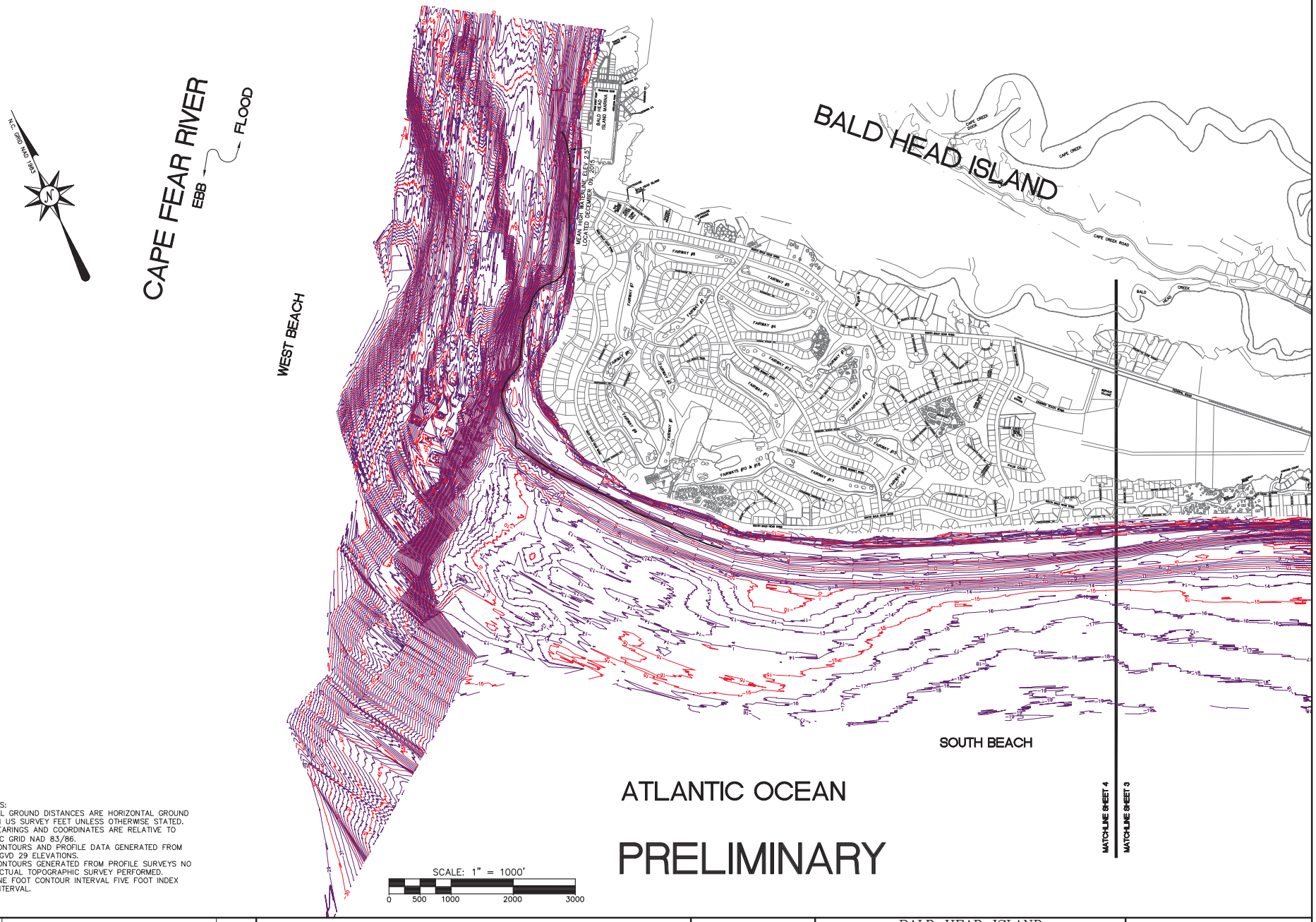
McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

DATE _____

BALD HEAD ISLAND
BEACH MONITORING PROGRAM
FOR
THE VILLAGE OF BALD HEAD ISLAND
BRUNSWICK COUNTY, NORTH CAROLINA
NOVEMBER 2015

PROJECT # : 00784-0061
PROJ. SVYR : DLJ
DRAWN BY : MBH
FIELD BK. :
COMP. FILE : VCOVER-007840061_NOV2015
SHEET # : 1 OF 4

DWG. # : 2015-075



PRELIMINARY

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DATE:	REVISION:	INT.:

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TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

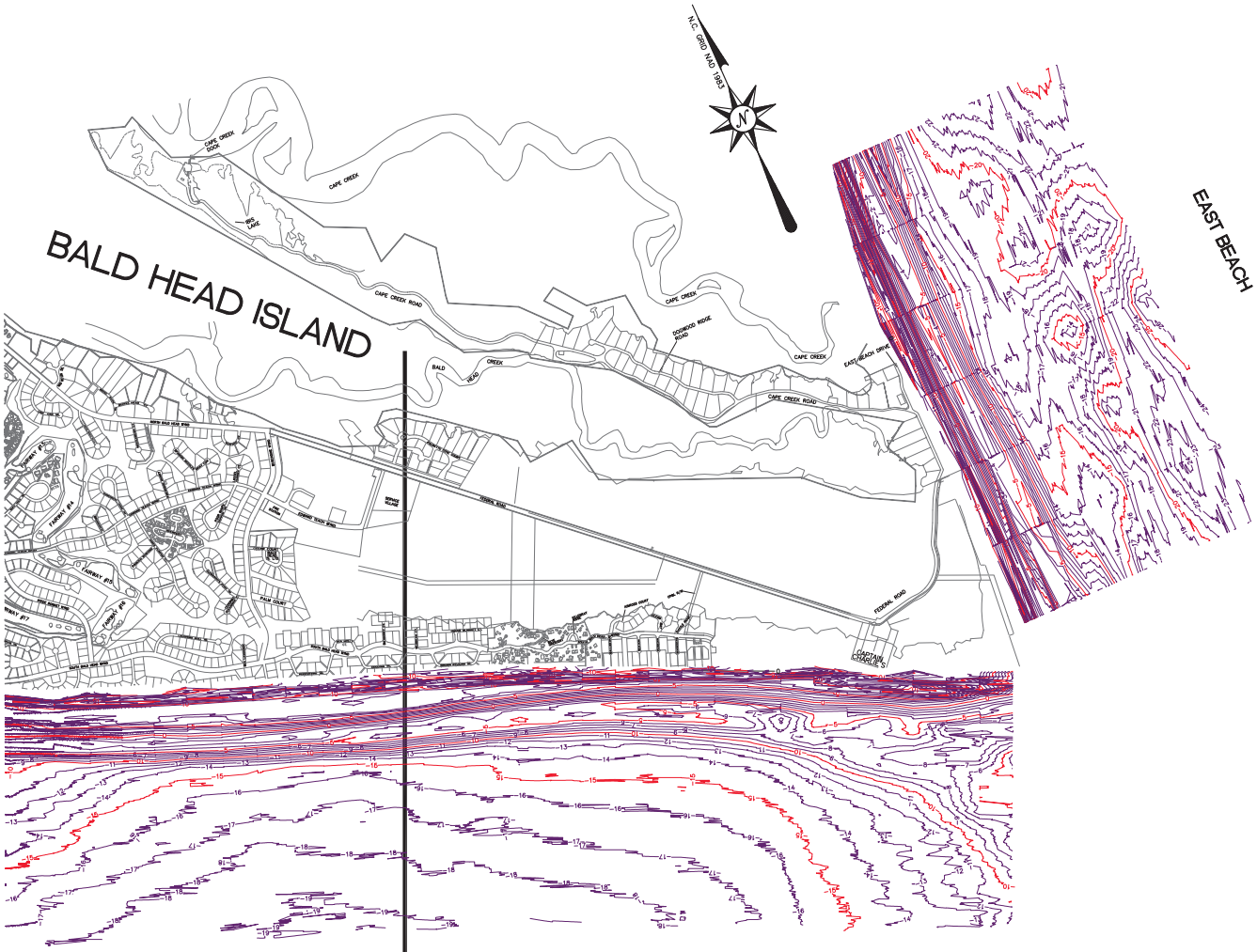
DATE _____

BALD HEAD ISLAND
BEACH MONITORING PROGRAM
TOPOGRAPHIC SURVEY
FOR
THE VILLAGE OF BALD HEAD ISLAND
BRUNSWICK COUNTY, NORTH CAROLINA

NOVEMBER 2015

PROJECT # : 00784-0061
PROJ. SVYR : DLJ
DRAWN BY : MBH
FIELD BK. :
COMP. FILE :VT101-00784-0061_NOVEMBER2015.DWG
SHEET # : 3 OF 4

DWG. # : 2015-075



SCALE: 1" = 1000'

0 500 1000 2000 3000

PRELIMINARY

NOTES:
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BALD HEAD ISLAND
BEACH MONITORING PROGRAM
TOPOGRAPHIC SURVEY
FOR
THE VILLAGE OF BALD HEAD ISLAND
BRUNSWICK COUNTY, NORTH CAROLINA

NOVEMBER 2015

PROJECT # : 00784-0061
PROJ. SVYR : DLJ
DRAWN BY : MBH
FIELD BK. :
COMP. FILE : VT101-00784-0061_NOVEMBER2015.DWG
SHEET # : 4 OF 4

DWG. # : 2015-075

I, DAVID L. JONES, JR. PLS L-3672, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION THAT THE POSITIONAL ACCURACY IS 0.093'; THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56. 1600);

THAT THE GPS SURVEY MADE WAS UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THIS SURVEY.

CLASS OF SURVEY: CLASS C
POSITIONAL ACCURACY: 0.093'
TYPE OF GPS FIELD PROCEDURE: RTK
DATES OF SURVEY: APRIL 13 – APRIL 26, 2016
DATUM/EPOCH: NC GRID NAD 83/86; VERTICAL NGVD 29
PUBLISHED/FIXED-CONTROL USED: EXISTING COPRS OF ENGINEERS BASELINE

GEOID MODEL: GEOID 03
COMBINED GRID FACTOR: 1.000164272
UNITS: FEET

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER, AND SEAL
THIS 5th DAY OF MAY AD 2016

DAVID L. JONES, JR
PROFESSIONAL LAND SURVEYOR L-3672

NORTH CAROLINA PROFESSIONAL SEAL L-3672 LAND SURVEYOR DAVID L. JONES, JR.

PROJECT SURVEYED WITH MCKIM & CREED SURVEY VESSEL "SV THE CLOCK", ON APRIL 13 – APRIL 26, 2016 USING RTK AND VRS GPS FOR HORIZONTAL POSITIONING AND 200KZ SOUNDING EQUIPMENT. HYPACK SOFTWARE VER. 2013 WAS USED FOR DATA COLLECTION AND PROCESSING. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME. BECAUSE THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS, A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.

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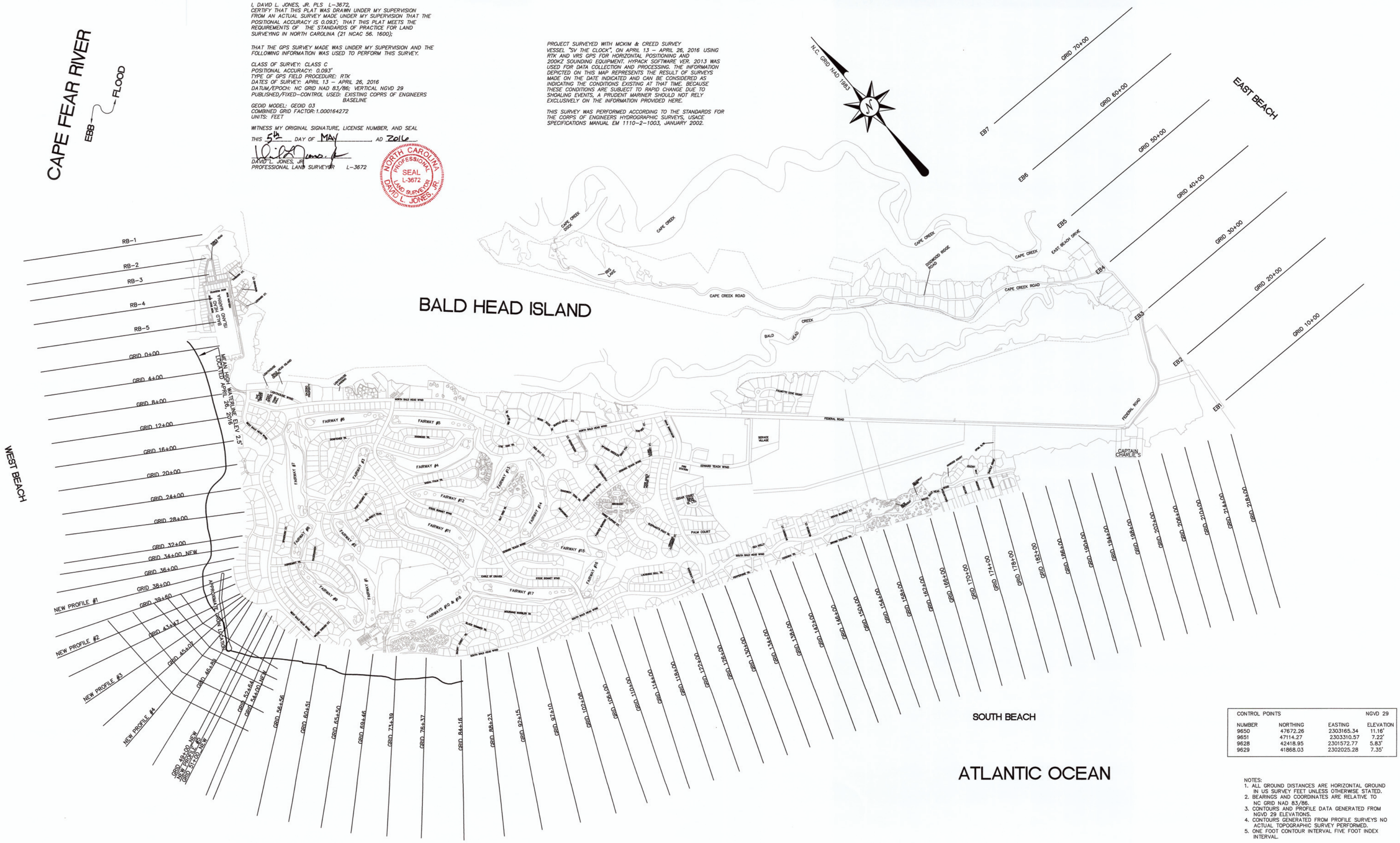

CONTROL POINTS			NGVD 29
NUMBER	NORTHING	EASTING	ELEVATION
9650	47672.26	2303165.34	11.16'
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NOTE: ELEVATIONS BASED ON NGVD 29

SCALE: 1" = 700'
0 350 700 1400 2100

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NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

BALD HEAD ISLAND BEACH MONITORING PROGRAM
FOR
THE VILLAGE OF BALD HEAD ISLAND

VILLAGE OF BALD ISLAND, BRUNSWICK COUNTY, NORTH CAROLINA
APRIL 2016

JOB NUMBER:	00784-0061
SCALE:	1" = 700'
CAD NUMBER:	VT101-007840062_NAD83_APRIL2016.DWG
PLS:	DLJ
PARTY CHIEF:	PARTY_CHIEF
CAD TECH:	MBH
FIELD BOOK/PAGE:	FB/PG
DRAWING NUMBER:	2016-027

BASELINE COORDINATES NAD 83

STATION	NORTHING	EASTING
0+00	47515.48	2303309.44
4+00	47173.53	2303101.89
8+00	46832.64	2302892.61
12+00	46491.75	2302683.33
16+00	46150.86	2302474.04
20+00	45809.97	2302264.76
24+00	45469.09	2302055.48
28+00	45128.20	2301846.20
32+00	44843.33	2301565.80
36+00	44646.22	2301218.79
38+00	44550.49	2301043.19
39+60	44473.90	2300902.70
41+50	44364.98	2300765.04
43+47	44168.12	2300757.57
44+25	44090.18	2300754.61
45+07	44008.77	2300755.07
46+00	43920.71	2300784.97
46+89	43836.43	2300813.58
50+00	43541.93	2300913.55
52+64	43291.94	2300998.42

STATION	NORTHING	EASTING
56+56	42934.12	2301148.48
60+51	42628.89	2301399.21
65+50	42243.31	2301715.96
69+46	41937.32	2301967.34
73+39	41660.76	2302245.74
76+37	41320.39	2302609.27
84+16	40924.66	2303031.94
88+23	40705.10	2303371.89
92+15	40513.87	2303714.08
97+10	40272.39	2304146.19
102+08	40056.87	2304593.81
106+00	39915.60	2304959.47
110+00	39771.45	2305332.60
114+00	39627.29	2305705.73
118+00	39483.14	2306078.86
122+00	39338.99	2306451.99
126+00	39194.83	2306825.11
130+00	39050.68	2307198.24
134+00	38906.52	2307571.37
138+00	38766.86	2307946.17

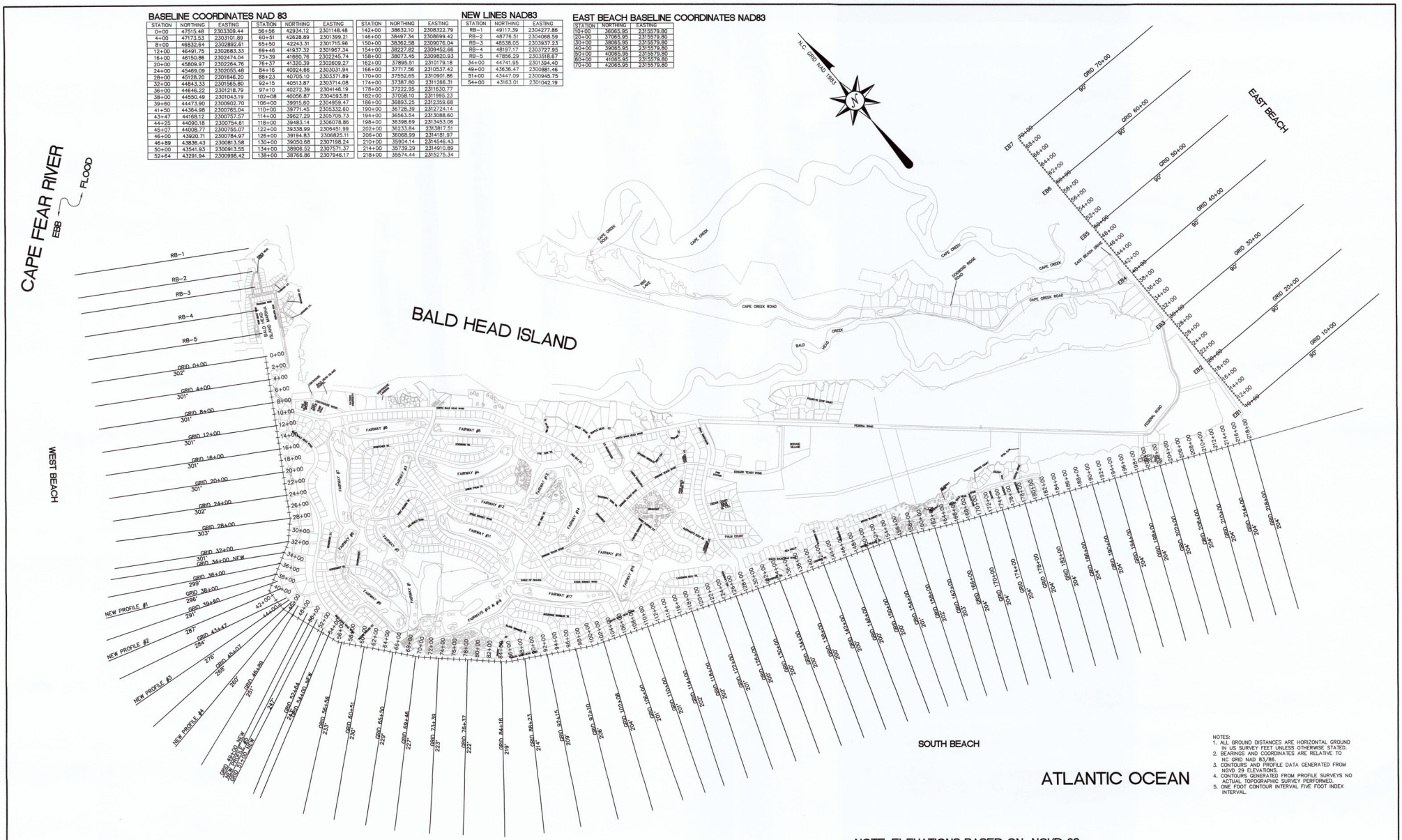
STATION	NORTHING	EASTING
142+00	38632.10	2308322.79
146+00	38497.34	2308696.42
150+00	38362.58	2309076.04
154+00	38227.82	2309452.66
158+00	38073.45	2309820.93
162+00	37895.51	2310179.18
166+00	37717.56	2310537.42
170+00	37552.85	2310901.86
174+00	37387.80	2311266.31
178+00	37222.95	2311630.77
182+00	37058.10	2311995.23
186+00	36893.25	2312359.68
190+00	36728.39	2312724.14
194+00	36563.54	2313088.60
198+00	36398.69	2313453.06
202+00	36233.84	2313817.51
206+00	36068.99	2314181.97
210+00	35904.14	2314546.43
214+00	35739.29	2314910.89
218+00	35574.44	2315275.34

NEW LINES NAD83

STATION	NORTHING	EASTING
RB-1	49117.39	2304277.86
RB-2	48776.51	2304068.59
RB-3	48538.05	2303937.23
RB-4	48197.17	2303727.95
RB-5	47856.29	2303518.67
34+00	44741.95	2301394.40
49+00	43636.47	2300881.46
51+00	43447.09	2300945.75
54+00	43163.01	2301042.19

EAST BEACH BASELINE COORDINATES NAD83

STATION	NORTHING	EASTING
10+00	36065.95	2315579.80
20+00	37065.95	2315579.80
30+00	38065.95	2315579.80
40+00	39065.95	2315579.80
50+00	40065.95	2315579.80
60+00	41065.95	2315579.80
70+00	42065.95	2315579.80



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3. CONTOURS AND PROFILE DATA GENERATED FROM NGVD 29 ELEVATIONS.
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5. ONE FOOT CONTOUR INTERVAL FIVE FOOT INDEX INTERVAL.

NOTE: ELEVATIONS BASED ON NGVD 29

NORTH CAROLINA PROFESSIONAL SEAL L-3672 DAVID L. JOHNSON 5/6/16

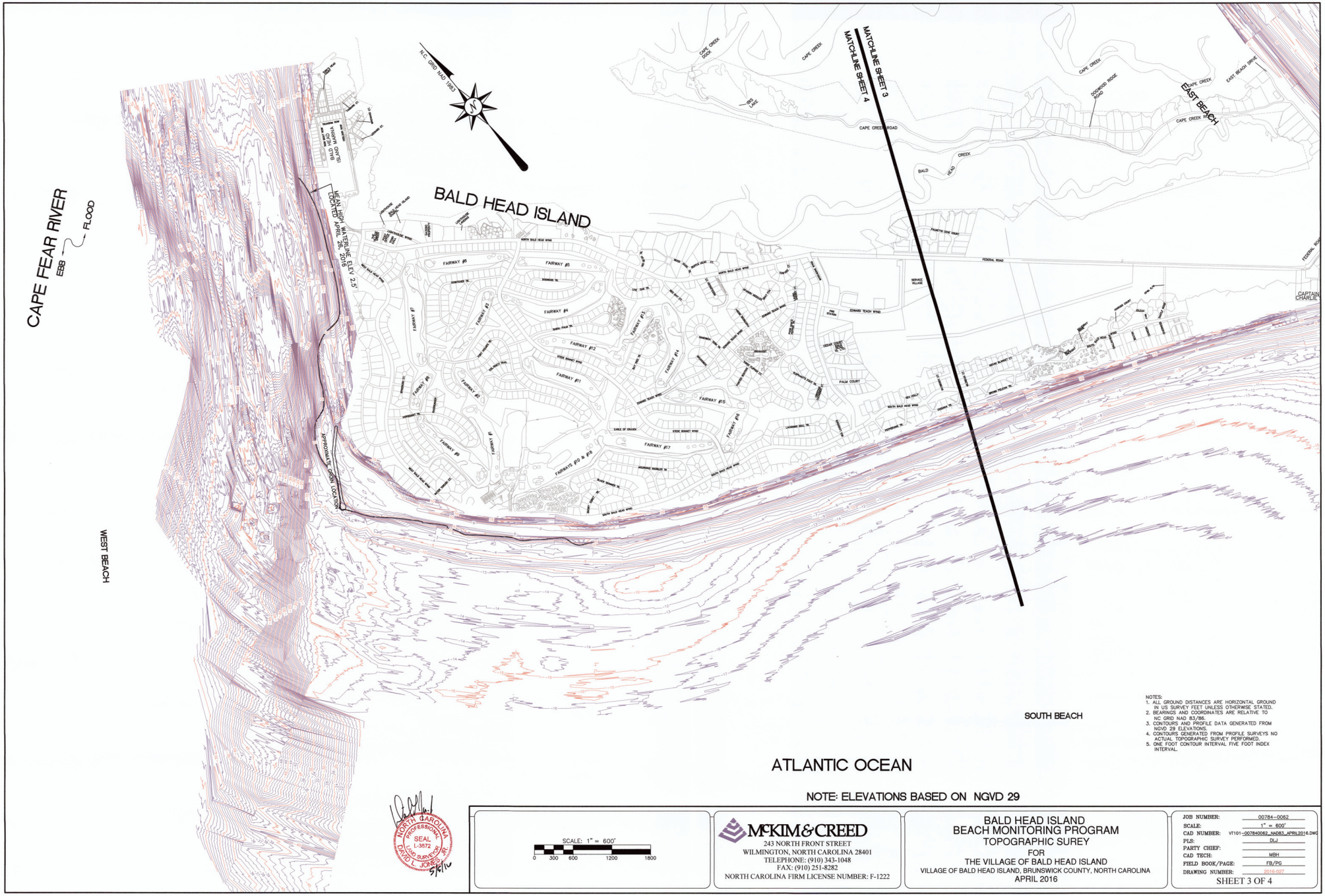
SCALE: 1" = 700'
0 350 700 1400 2100

McKIM&CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

BALD HEAD ISLAND
BEACH MONITORING PROGRAM
BASELINE SURVEY
FOR
THE VILLAGE OF BALD HEAD ISLAND
VILLAGE OF BALD HEAD ISLAND, BRUNSWICK COUNTY, NORTH CAROLINA
APRIL 2016

JOB NUMBER:	00784-0062
SCALE:	1" = 700'
CAD NUMBER:	VT101-007840062_NAD83_APRIL2016.DWG
PLS:	DLJ
PARTY CHIEF:	
CAD TECH:	MBH
FIELD BOOK/PAGE:	FB/PG
DRAWING NUMBER:	2016-027

SHEET 2 OF 4



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NOTE: ELEVATIONS BASED ON NGVD 29

NORTH CAROLINA PROFESSIONAL SEAL L-3672 DAVID L. JONES, JR. PLS
5/6/16

SCALE: 1" = 600'
0 300 600 1200 1800

McKIM & CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
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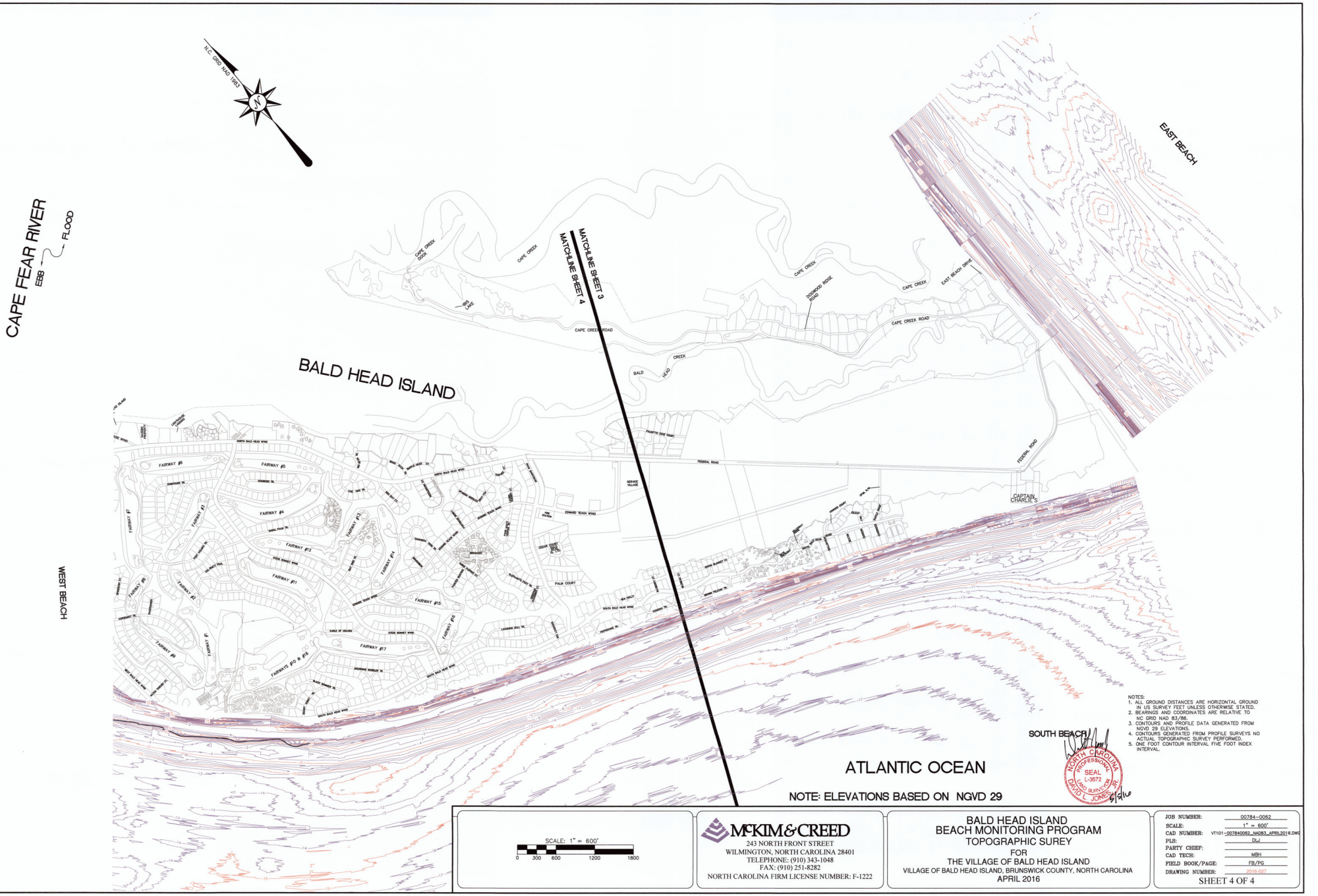
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

BALD HEAD ISLAND
BEACH MONITORING PROGRAM
TOPOGRAPHIC SUREY
FOR
THE VILLAGE OF BALD HEAD ISLAND
VILLAGE OF BALD HEAD ISLAND, BRUNSWICK COUNTY, NORTH CAROLINA
APRIL 2016

JOB NUMBER:	00784-0052
SCALE:	1" = 600'
CAD NUMBER:	VT101-007840052_NAD83_APRIL2016.DWG
PLS:	DLJ
PARTY CHIEF:	
CAD TECH:	MBH
FIELD BOOK/PAGE:	FB/PG
DRAWING NUMBER:	2016-027

SHEET 3 OF 4



NOTE: ELEVATIONS BASED ON NGVD 29

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NORTH CAROLINA PROFESSIONAL SEAL L-3672 LAND SURVEYOR DAVID L. JONES, JR.
6/9/16

SCALE: 1" = 600'
0 300 600 1200 1800

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BALD HEAD ISLAND
BEACH MONITORING PROGRAM
TOPOGRAPHIC SUREY
FOR
THE VILLAGE OF BALD HEAD ISLAND
VILLAGE OF BALD HEAD ISLAND, BRUNSWICK COUNTY, NORTH CAROLINA
APRIL 2016

JOB NUMBER:	00784-0062
SCALE:	1" = 600'
CAD NUMBER:	VT101-007840062_NAD83_APRIL2016.DWG
PLS:	DLJ
PARTY CHIEF:	
CAD TECH:	MBH
FIELD BOOK/PAGE:	FB/PG
DRAWING NUMBER:	2016-027

SHEET 4 OF 4

I, DAVID L. JONES, JR. PLS L-3672, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION THAT THE POSITIONAL ACCURACY IS 0.093'; THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56. 1600);

THAT THE GPS SURVEY MADE WAS UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THIS SURVEY.

CLASS OF SURVEY: CLASS C
POSITIONAL ACCURACY: 0.033'
TYPE OF GPS FIELD PROCEDURE: VRS
DATES OF SURVEY: APRIL 24-26, 2016
DATUM/EPOCH: NAVD 88
PUBLISHED/FIXED-CONTROL USED: EXISTING CORPS OF ENGINEERS BASELINE
GEOID MODEL: GEOID 12A
COMBINED GRID FACTOR:1.000164272
UNITS: US SURVEY FEET

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER, AND SEAL

THIS 5th DAY OF MAY AD 2016

DAVID L. JONES, JR. L-3672
PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3672 LAND SURVEYOR DAVID L. JONES, JR.

PROJECT SURVEYED WITH MCKIM & CREED SURVEY VESSEL "SOUNDS DEEP, ON APRIL 26 2016 USING RTK GPS FOR HORIZONTAL POSITIONING AND 200KZ SOUNDING EQUIPMENT. HYPACK SOFTWARE VER. 2015 WAS USED FOR DATA COLLECTION AND PROCESSING. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULT OF SURVEYS MADE ON THE DATE INDICATED AND CAN BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME. BECAUSE THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS, A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE.

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NOTES:
1. ALL DISTANCES ARE HORIZONTAL GROUND IN US SURVEY FEET UNLESS OTHERWISE STATED.
2. BEARINGS AND COORDINATES ARE RELATIVE TO NC GRID NAD 83(1986).
3. CONTOURS AND PROFILE DATA GENERATED FROM MLW ELEVATIONS.
4. ONE FOOT CONTOUR INTERVAL FIVE FOOT INDEX INTERVAL.
5. ALL SOUNDINGS NOT NECESSARILY SHOWN DUE TO GRAPHICAL RESTRAINTS.

CONTROL

CLASS OF SURVEY: CLASS C
POSITIONAL ACCURACY: 0.033'
TYPE OF GPS FIELD PROCEDURE: RTK
DATES OF CONTROL SURVEY: NOVEMBER 29, 2011
DATUM/EPOCH: NGVD 29
PUBLISHED/FIXED-CONTROL USED: EXISTING COPES OF ENGINEERS BASELINE
GEOID MODEL: GEOID 03
COMBINED GRID FACTOR:1.000164272
UNITS: US SURVEY FEET

CONTROL POINTS			NGVD 29
NUMBER	NORTHING	EASTING	ELEVATION
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9651	47114.27	2303310.57	7.22'
9628	42418.95	2301572.77	5.83'
9629	41868.03	2302025.28	7.35'

DATUM RELATIONSHIP CHART FROM PLANS TITLED "CONSTRUCTION PLANS FOR BALD HEAD CREEK EXCAVATION" DATED NOVEMBER 2011 BY OLSEN ASSOCIATES, INC.

FROM U.S. DEPT. OF COMMERCE, NATIONAL OCEAN SERVICE; SOUTHPORT, NC STATION 8659084 1978-87	
DATUM	ELEVATION (FT-NGVD 29)
MEAN HIGHER HIGH WATER (MHHW)	+4.63
MEAN HIGH WATER (MHW)	+4.32
NAVD 1988	+2.91
MEAN TIDE LEVEL (MTL)	+2.16
NGVD 29	+1.81
MEAN LOW WATER	0.00
MEAN LOWER LOW WATER (MLLW)	-0.17

NOTE: ELEVATIONS BASED ON MLW

SCALE: 1" = 100'
0 50 100 200 300

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TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

BALD HEAD ISLAND CREEK

BORROW AREA SURVEY
FOR
VILLAGE OF BALD HEAD ISLAND

VILLAGE FO BALD HEAD SIALND, BRUNSWICK COUNTY, NORTH CAROLINA
APRIL 24, 2016 1" = 100'

JOB NUMBER:	00784-0062
SCALE:	1" = 100'
CAD NUMBER:	VT101-00784\0062_NAD83_APRIL2016_CREEKBORROW.DWG
PLS:	DLJ
PARTY CHIEF:	JL
CAD TECH:	MBH
FIELD BOOK/PAGE:	W1545/26
DRAWING NUMBER:	2016-033

SHEET 1 OF 1