

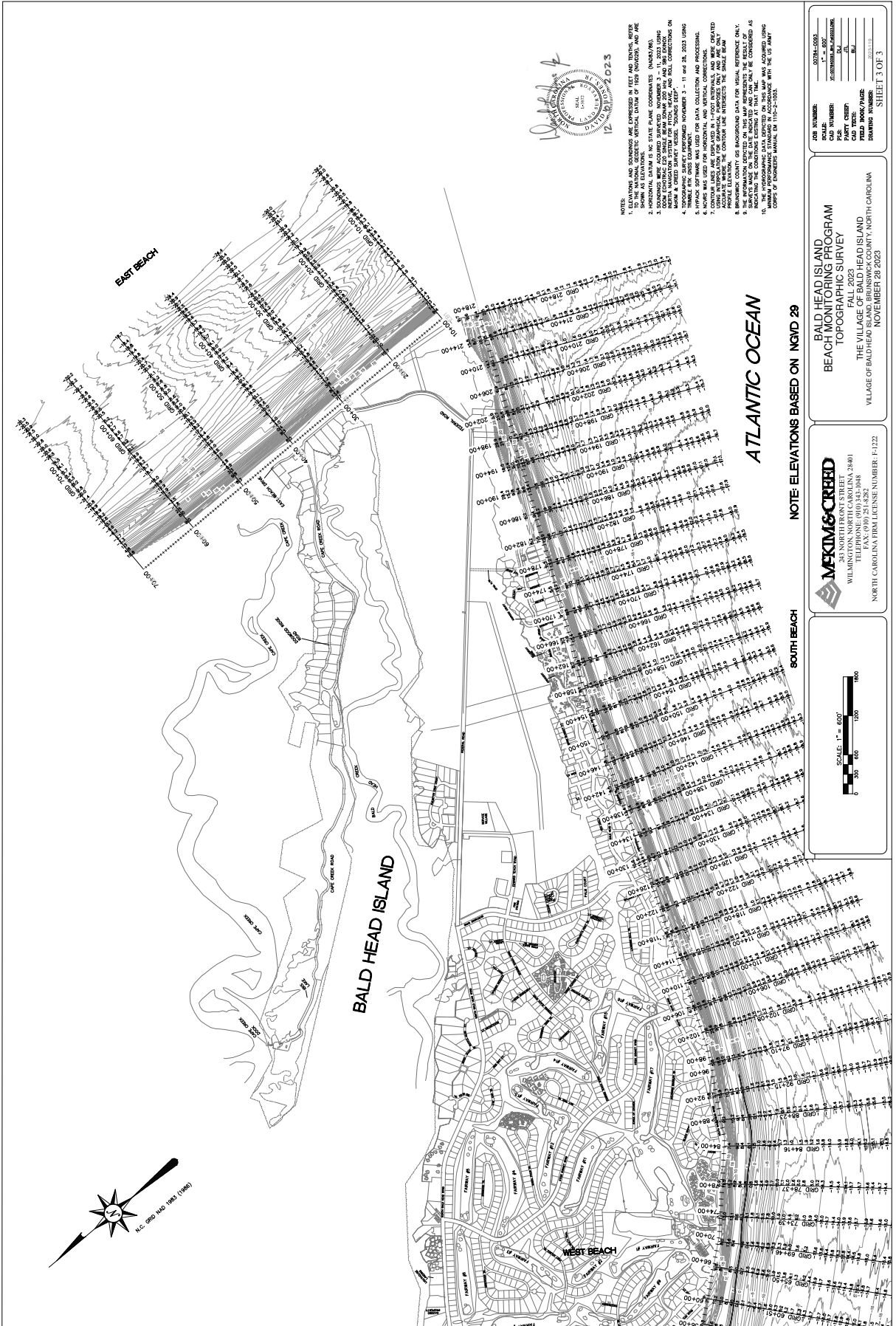
APPENDIX G: November 2023 & April 2024 Monitoring Survey Drawings

This appendix contains reduced versions of the survey drawings produced by McKim and Creed, Inc.¹ for the November 2023 and April 2024 Bald Head Island monitoring surveys. Note that the November 2023 Jay Bird Shoals survey only included the expansion area to be used in the upcoming beach renourishment project and the April 2024 Jay Bird Shoals survey includes the previous limits and the expansion area.

¹ McKim & Creed, Inc.; 243 North Front Street; Wilmington, NC 28401

November 2023 Drawings



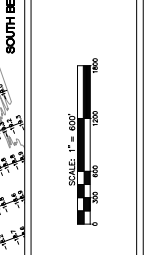


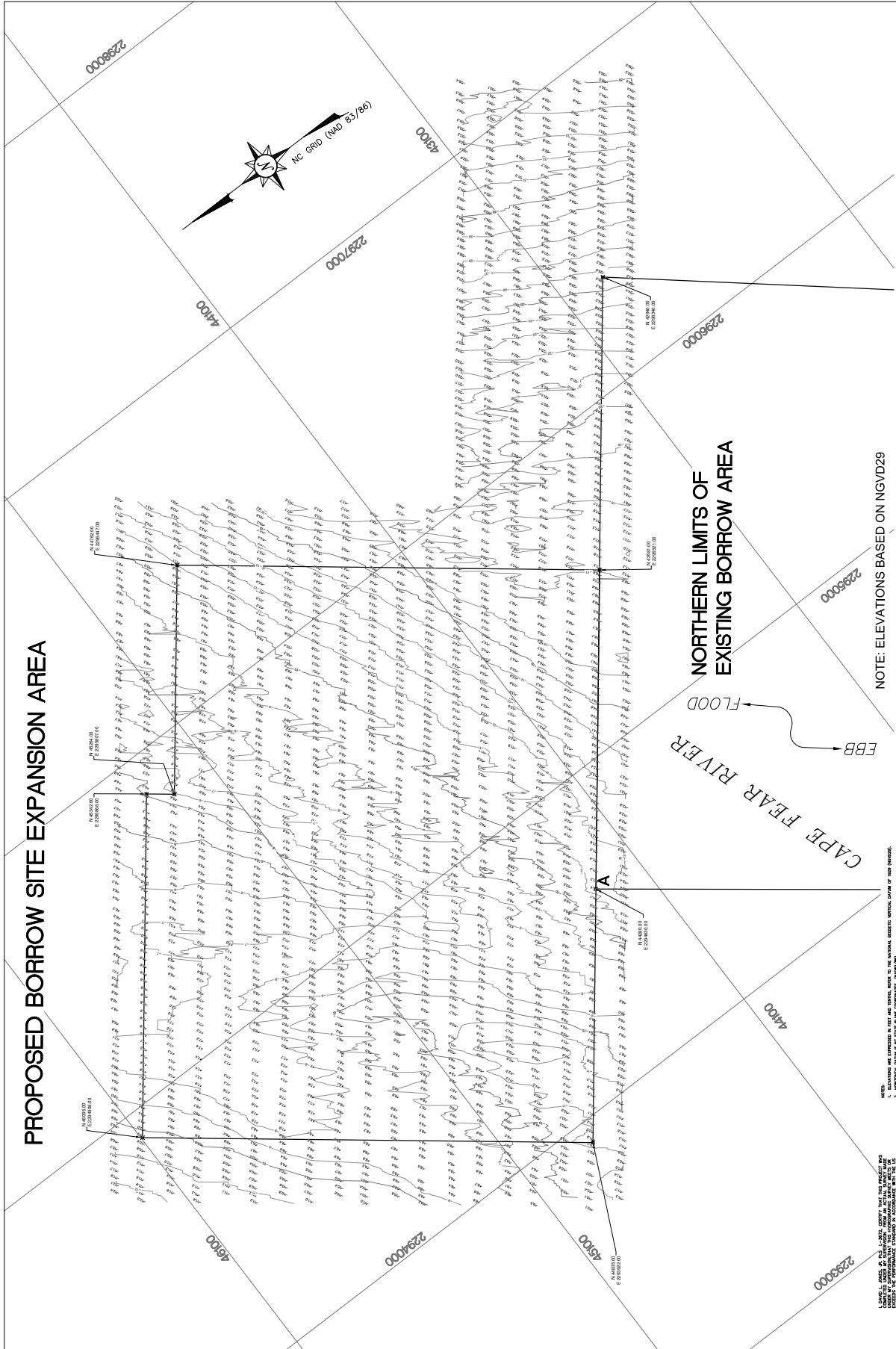
- NOTES:**
- ELEVATIONS AND SOUNDINGS ARE COMPRESSED IN FEET AND TENTHS, REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), AND ARE NOT TO BE CONSIDERED AS MEASUREMENTS.
 - HORIZONTAL DATUM IS IN STATE PLANE COORDINATES (NAD83/98).
 - CONTOUR INTERVAL IS 2 FEET.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - HYDROGRAPHIC SURVEY INFORMATION IS FROM THE U.S. COAST AND GEODETIC SURVEY (USCGS) CHART NO. 1100-2-1002.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.
 - CONTOUR LINES ARE SPACED AT 100 FOOT INTERVALS AND WERE CREATED USING A 100 FOOT GRID. CONTOUR LINES INTERSECT THE GRID AT 100 FOOT INTERVALS.

JOB NUMBER:	2023-0008
DATE:	10/20/23
PROJECT:	BALD HEAD ISLAND
CLIENT:	FOOTHOLD LLC
FIELD BOOK/PAGE:	10/20/23
DRAWING NUMBER:	10/20/23

BALD HEAD ISLAND BEACH MONITORING PROGRAM TOPOGRAPHIC SURVEY
 FALL 2023
 THE VILLAGE OF BALD HEAD ISLAND
 VILLAGE OF BALD HEAD ISLAND, COUNTY OF WILMINGTON, NORTH CAROLINA
 VILLAGE OF BALD HEAD ISLAND, COUNTY OF WILMINGTON, NORTH CAROLINA
 NOVEMBER 28 2023

MFKIM & CREED
 WILMINGTON, NORTH CAROLINA 28401
 245 NORTH FRONT STREET
 TEL: 910.251.4828
 FAX: 910.251.4822
 NORTH CAROLINA FIRM LICENSE NUMBER: F-122

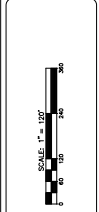




DATE: 07/11/2024
JOB NUMBER: 2298000
CLIENT: MCKIM & CREED
PROJECT: BORROW SITE EXPANSION AREA
DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: 07/11/2024
SCALE: 1" = 100'
SHEET NUMBER: 1 OF 1

JAY BIRD SHOAL BORROW SITE EXPANSION AREA FOR THE VILLAGE OF BALD HEAD ISLAND
 EXISTING CONDITIONS HYDROGRAPHIC SURVEY
 VILLAGE OF BALD HEAD ISLAND, BRUNSWICK COUNTY, NORTH CAROLINA
 NOVEMBER 07, 2023 SCALE: 1" = 100'

MCKIM & CREED
 341 NORTH FRONT STREET
 WILMINGTON, NORTH CAROLINA 28401
 TELEPHONE: (910) 343-1488
 NORTH CAROLINA PROFESSIONAL ENGINEER NUMBER: P-1222



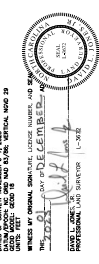
NOTE: ELEVATIONS BASED ON NGVD29

PROPOSED BORROW SITE EXPANSION AREA

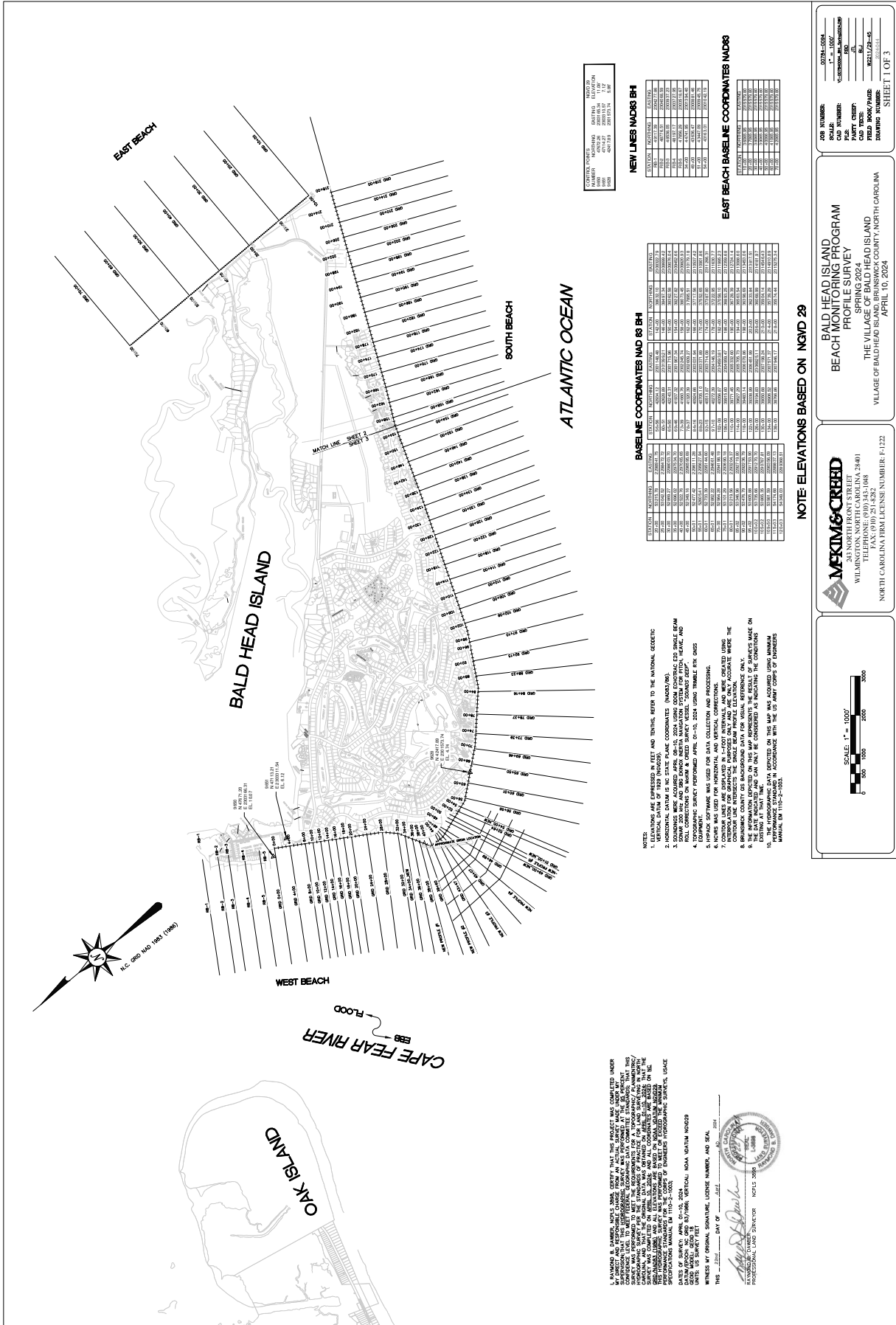
NORTHERN LIMITS OF EXISTING BORROW AREA

CAPE FEAR RIVER
 FLOOD
 EBB

- NOTES:
1. EXISTING AND PROPOSED BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 2. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 3. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 4. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 5. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 6. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 7. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 8. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 9. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.
 10. EXISTING BORROW AREAS ARE SHOWN WITHIN THE EXISTING SURVEY BOUNDARIES OF THIS PROJECT.



April 2024 Drawings



N.C. GPS MTD 1993 (1989)
 1" = 1000'
 0 100 200 300

CONTROL POINTS

POINT NO.	EASTING	NORTHING	ELEVATION
1000	40170.00	20000.00	11.00
1001	40170.00	20000.00	11.00
1002	40170.00	20000.00	11.00

NEW LINES MAD83 BH

LINE NO.	EASTING	NORTHING	ELEVATION
1003	40170.00	20000.00	11.00
1004	40170.00	20000.00	11.00
1005	40170.00	20000.00	11.00

EAST BEACH BASELINE COORDINATES MAD83

POINT NO.	EASTING	NORTHING	ELEVATION
1006	40170.00	20000.00	11.00
1007	40170.00	20000.00	11.00
1008	40170.00	20000.00	11.00

BASELINE COORDINATES MAD 83 BH

POINT NO.	EASTING	NORTHING	ELEVATION
1009	40170.00	20000.00	11.00
1010	40170.00	20000.00	11.00
1011	40170.00	20000.00	11.00

NOTE ELEVATIONS BASED ON NGVD 29

POINT NO.	EASTING	NORTHING	ELEVATION
1012	40170.00	20000.00	11.00
1013	40170.00	20000.00	11.00
1014	40170.00	20000.00	11.00

- NOTES:**
- VERTICAL DATUM IS NGVD 29 (1988).
 - HORIZONTAL DATUM IS NAD 83 (1983).
 - VERTICAL DATUM IS NC STATE PLANE COORDINATES (MAD83).
 - POINT 1000 IS THE BENCHMARK FOR THIS SURVEY.
 - TOPOGRAPHIC SURVEY PERFORMED APRIL 01-10, 2024 USING TRIMBLE RP 0205.
 - TOPOGAL SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
 - NOIS WAS USED FOR HORIZONTAL AND VERTICAL CORRECTIONS.
 - INTERPOLATION FOR SPOTLIGHT PURPOSES ONLY AND USE ONLY AS A GUIDE WHERE THE SURVEY POINTS ARE NOT SHOWN.
 - BENCHMARK COUNTY GIS BACKGROUND DATA FOR VISUAL REFERENCE ONLY.
 - THE SURVEY WAS PERFORMED ON THE DATE SHOWN ON THIS MAP AND THE ELEVATIONS ARE BASED ON THE DATUM SHOWN ON THIS MAP. THE ELEVATIONS ARE NOT GUARANTEED TO BE ACCURATE AND SHOULD BE USED AS A GUIDE ONLY.
 - PERFORMANCES STANDARDS IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS MANUAL EM 1110-2-2.1000.

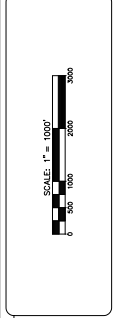
L. RAMBERG & COMPANY, NOTICES, SHALL CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER THE SUPERVISION OF THE PROFESSIONAL LAND SURVEYOR AS LISTED ON THIS MAP. THIS PROJECT WAS COMPLETED ON THE DATE SHOWN ON THIS MAP AND THE ELEVATIONS ARE BASED ON THE DATUM SHOWN ON THIS MAP. THE ELEVATIONS ARE NOT GUARANTEED TO BE ACCURATE AND SHOULD BE USED AS A GUIDE ONLY.

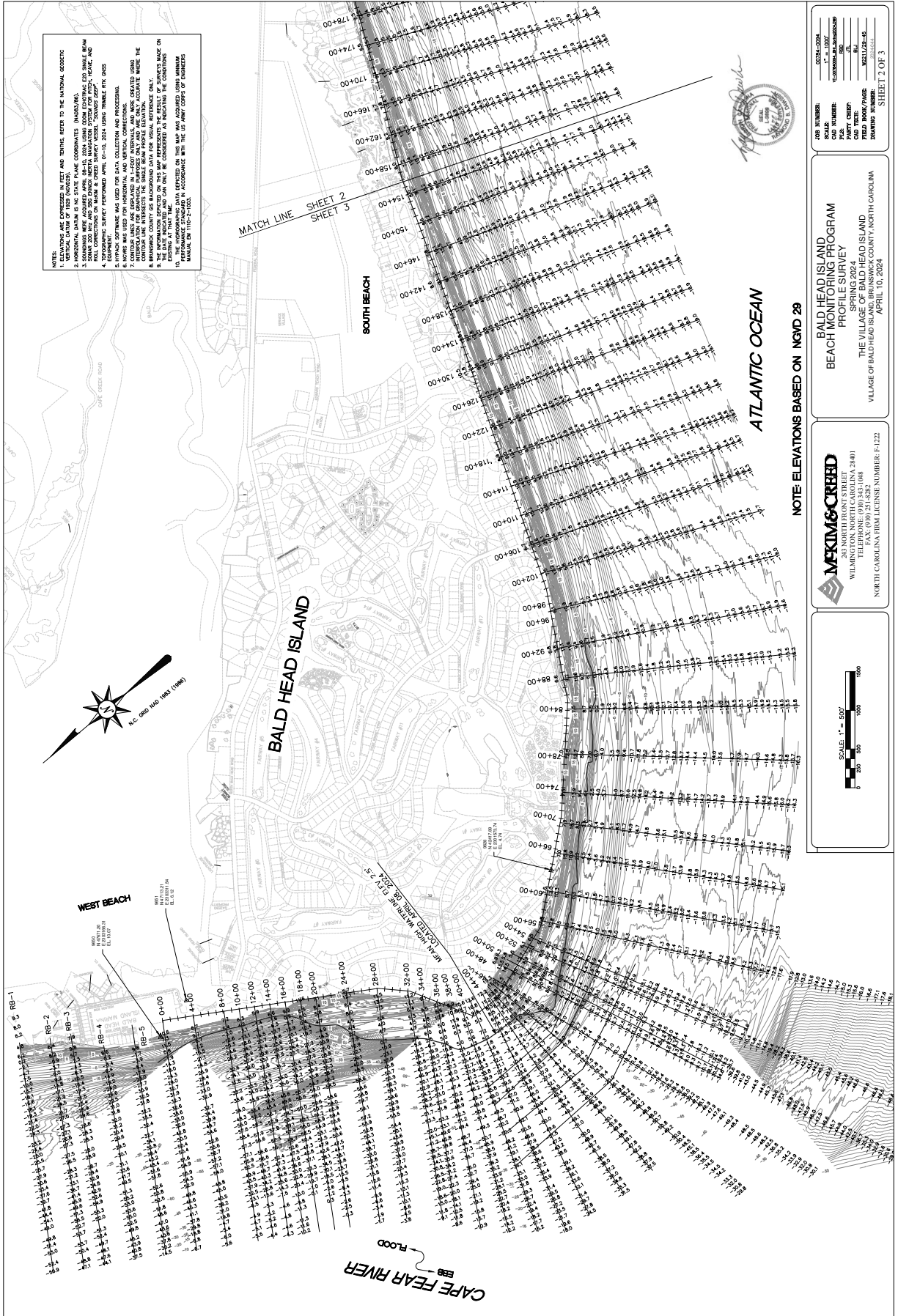
THIS IS A TRUE AND CORRECT COPY OF THE ORIGINAL SURVEY RECORDS.
 L. RAMBERG & COMPANY
 PROFESSIONAL LAND SURVEYOR
 NOTICES
 APRIL 10, 2024

AFKIM & CREED
 243 NORTH POINT STREET
 WILMINGTON, NORTH CAROLINA 28401
 TEL: (910) 341-1111
 FAX: (910) 251-4322
 NORTH CAROLINA FIRM LICENSE NUMBER: F-122

BALD HEAD ISLAND BEACH MONITORING PROGRAM PROFILE SURVEY
 SPRING 2024
 THE VILLAGE OF BALD HEAD ISLAND
 COUNTY: NORTH CAROLINA
 APRIL 10, 2024

JOB NUMBER: 2024-1004
 DATE: 04/10/24
 DRAWN BY: JAC
 CHECKED BY: JAC
 FIELD BOOK/PAGE: 02/11/24-45
 DRAWING NUMBER: 02/11/24-45
 SHEET 1 OF 3



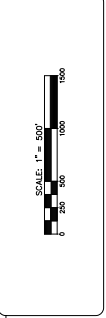


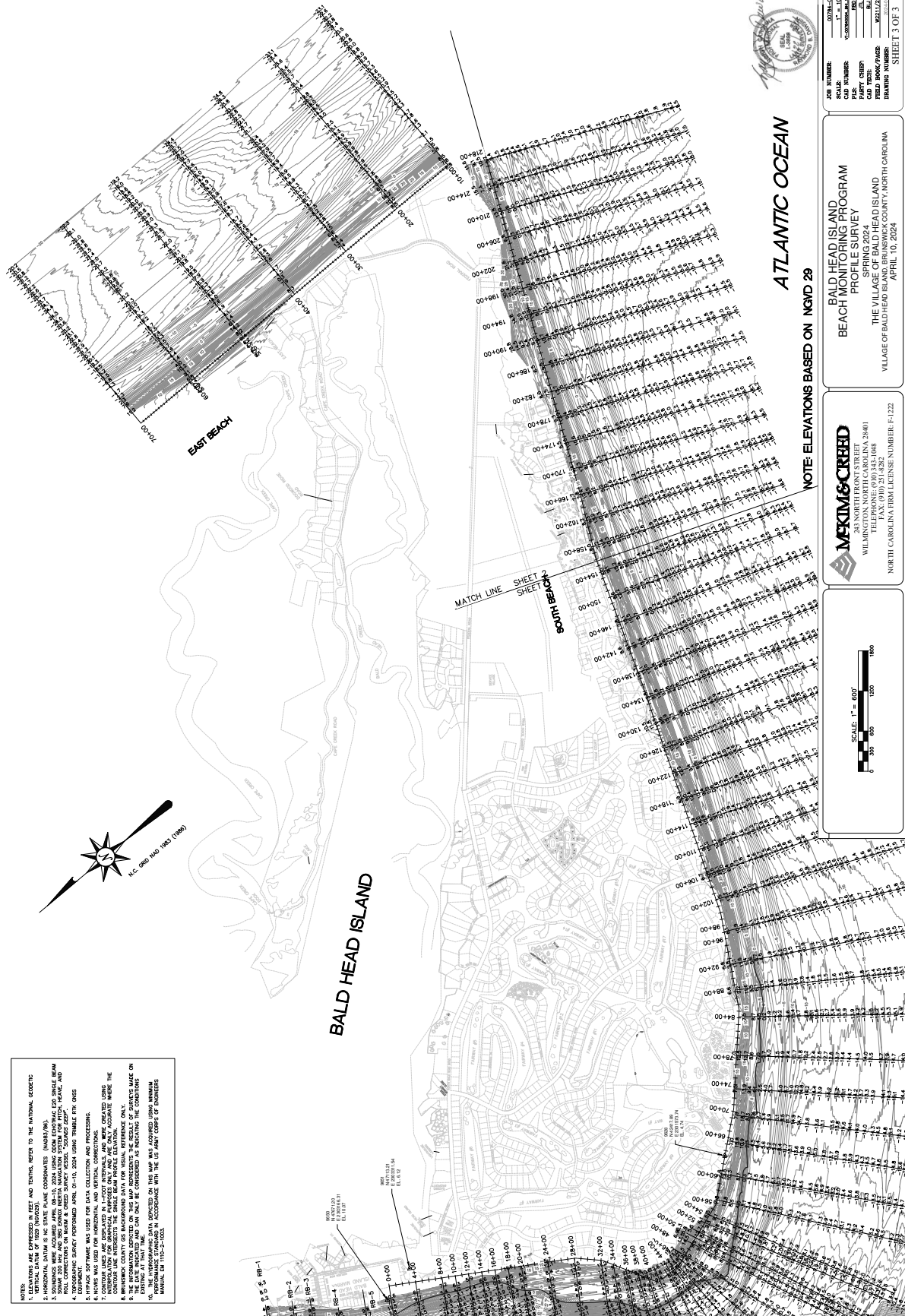
NOTES:
 1. ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS, REFER TO THE NATIONAL GEODETIC DATUM OF 1983 (NGVD83).
 2. HORIZONTAL DATUM IS NC STATE PLANE COORDINATES (NAD83/98).
 3. THIS SURVEY WAS CONDUCTED USING A TRIPLET TOTAL STATION WITH AN AUTO LEVELING SYSTEM FOR SIGHT HEIGHT, AND A 3000 MHz AND 900 MHz DUAL BAND GPS RECEIVER FOR POSITIONING. THE SURVEY WAS CONDUCTED ON APRIL 10, 2024 USING TRIMBLE R10 GNSS RECEIVERS.
 4. TOPOGRAPHIC SURVEY PERFORMED APRIL 01-10, 2024 USING TRIMBLE R10 GNSS RECEIVERS.
 5. SURVEY SOFTWARE WAS USED FOR DATA COLLECTION AND PROCESSING.
 6. NOTES WAS USED FOR HORIZONTAL AND VERTICAL CORRECTIONS.
 7. THIS SURVEY WAS CONDUCTED USING A TRIPLET TOTAL STATION WITH AN AUTO LEVELING SYSTEM FOR SIGHT HEIGHT, AND A 3000 MHz AND 900 MHz DUAL BAND GPS RECEIVER FOR POSITIONING. THE SURVEY WAS CONDUCTED ON APRIL 10, 2024 USING TRIMBLE R10 GNSS RECEIVERS.
 8. A BENCHMARK COUNTY AS BACKGROUND DATA FOR VISUAL REFERENCE ONLY.
 9. THE DATE RECORDED AND ANY OTHER INFORMATION RECORDED IN THIS SURVEY IS SUBJECT TO THE GENERAL TERMS AND CONDITIONS OF THE SURVEY CONTRACT.
 10. THE DATE RECORDED AND ANY OTHER INFORMATION RECORDED IN THIS SURVEY IS SUBJECT TO THE GENERAL TERMS AND CONDITIONS OF THE SURVEY CONTRACT.
 11. THE DATE RECORDED AND ANY OTHER INFORMATION RECORDED IN THIS SURVEY IS SUBJECT TO THE GENERAL TERMS AND CONDITIONS OF THE SURVEY CONTRACT.
 12. THE DATE RECORDED AND ANY OTHER INFORMATION RECORDED IN THIS SURVEY IS SUBJECT TO THE GENERAL TERMS AND CONDITIONS OF THE SURVEY CONTRACT.

JOB NUMBER:	0078-0006
DATE:	04/10/2024
PROJECT:	BALD HEAD ISLAND BEACH MONITORING PROGRAM
CLIENT:	THE VILLAGE OF BALD HEAD ISLAND
LOCATION:	WILMINGTON, NORTH CAROLINA
DRAWING NUMBER:	MS21172-05
DRAWING SCALE:	AS SHOWN

BALD HEAD ISLAND BEACH MONITORING PROGRAM
 PROFILE SURVEY
 SPRING 2024
 THE VILLAGE OF BALD HEAD ISLAND
 VILLAGE OF BALD HEAD ISLAND, COUNTY OF NORTH CAROLINA
 APRIL 10, 2024

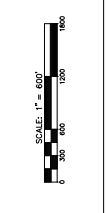
MFKIM & CREED
 243 NORTH POINT STREET
 WILMINGTON, NORTH CAROLINA 28401
 TEL: (910) 251-4822
 FAX: (910) 251-4822
 NORTH CAROLINA FIRM LICENSE NUMBER: F-122



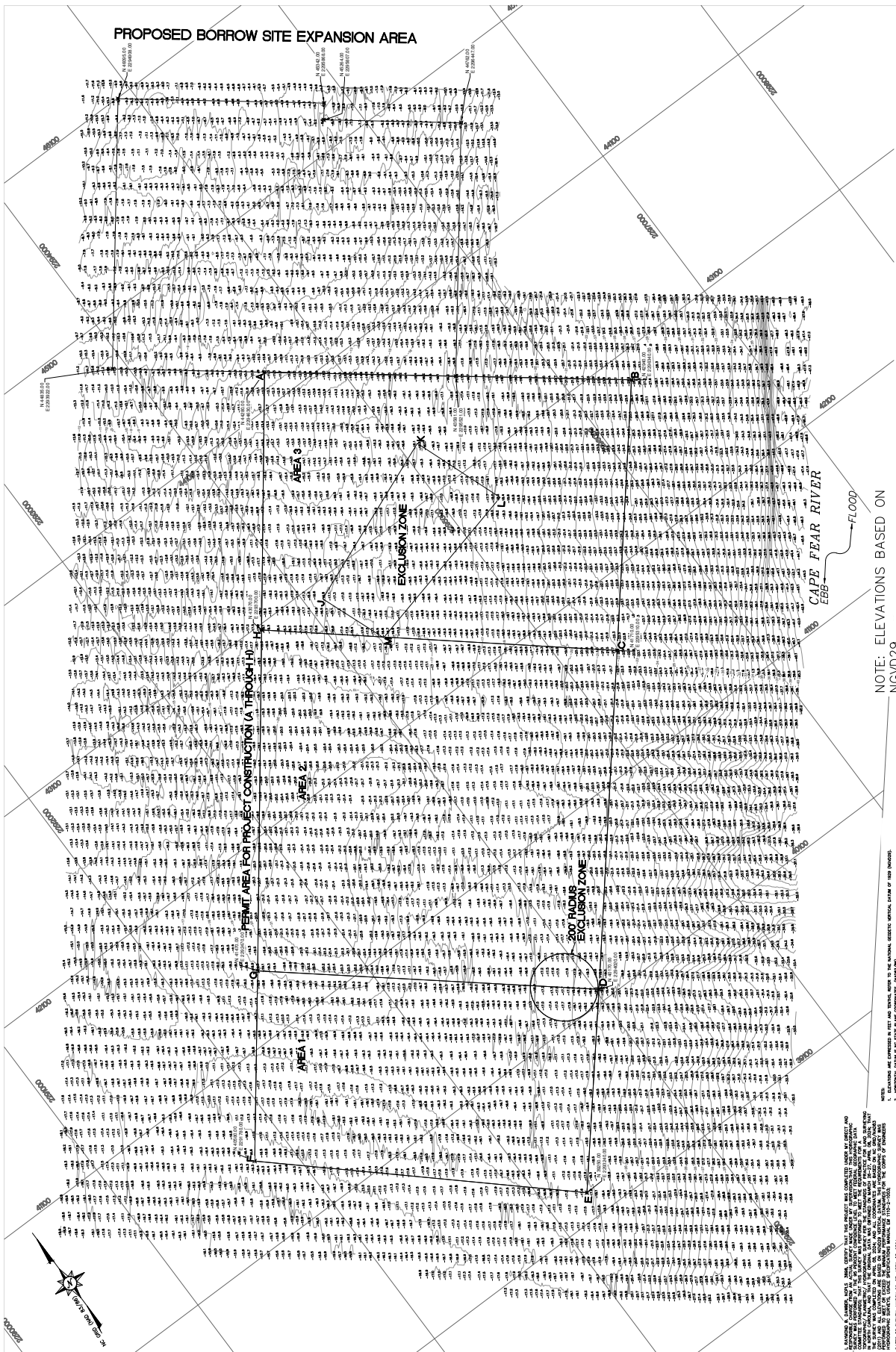


- NOTES:
- ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS, REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NOVD83).
 - SPONSORING AGENCY: BEACH MONITORING PROGRAM, WILMINGTON, NORTH CAROLINA.
 - DESIGNER: MFKIM&CREED, 245 NORTH POINT STREET, WILMINGTON, NORTH CAROLINA 28401.
 - DATE: SPRING 2024.
 - FIELD BOOK/PAGE: 92517/29-45.
 - DRAWING NUMBER: 92517/29-45.
 - SHEET 3 OF 3.

MFKIM&CREED
 245 NORTH POINT STREET
 WILMINGTON, NORTH CAROLINA 28401
 TEL: 910.251.4321
 FAX: 910.251.4322
 NORTH CAROLINA FIRM LICENSE NUMBER: F-122



PROPOSED BORROW SITE EXPANSION AREA

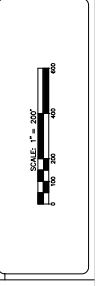


NOTE: ELEVATIONS BASED ON NGVD29

DATE: 04/16/2024
DRAWN BY: J. OLSEN
CHECKED BY: J. OLSEN
PROJECT NO: 24001
DATE PLOTTED: 09/10/2024
SCALE: 1" = 200'
SHEET NO: 1 OF 1

JAY BIRD SHOAL BORROW SITE EXPANSION AREA FOR THE VILLAGE OF BALD HEAD ISLAND
 EXISTING CONDITIONS HYDROGRAPHIC SURVEY
 VILLAGE OF BALD HEAD ISLAND, BRUNSWICK COUNTY, NORTH CAROLINA
 APRIL 16, 2024 SCALE: 1" = 200'

MCKIM & CREED
 31 NORTH FRONT STREET
 WILMINGTON, NC 28401
 TELEPHONE: (910) 343-2800
 NORTH CAROLINA LICENSE NUMBER: P-1222



- NOTES:
1. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 2. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 3. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 4. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 5. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 6. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 7. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 8. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 9. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.
 10. EXISTING SURFACE ELEVATIONS WERE OBTAINED FROM THE HYDROGRAPHIC SURVEY CONDUCTED BY THE VILLAGE OF BALD HEAD ISLAND IN 2017.

DATE OF SURVEY: MARCH 26-27, APRIL 03, 2024
 WITNESSED BY: J. OLSEN, LICENSE NUMBER: P-1222
 WITNESSED BY: J. OLSEN, LICENSE NUMBER: P-1222