

TOWN OF NAGS HEAD SAND FENCING PROJECT NAGS HEAD, NORTH CAROLINA



VICINITY MAP
SCALE: NTS

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LOCATION PLAN
SCALE: NTS



Mark	Description	Date	Appr
0	ISSUED FOR PERMIT	2022-08-09	BJ

TOWN OF NAGS HEAD SAND FENCING PROJECT	COVER SHEET
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Designed by: M. BOSHEK	Drawn by: VNM	Checked by: BJ	Reviewed by: D. HUGGETT	Submitted by: MOFFATT & NICHOL	Date: 2022-08-09	Rev: 0	MAN Project No: 10979-04	Drawing code:	Drawing Scale: AS NOTED	Per scale: 1/2" (8 SHEET)
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4700 FALLS OF NEUSE RD., SUITE 300
ROANOK, NC 27858-4626
919-781-4626
motfatt & nichol
NC FIRM NO. F-0105



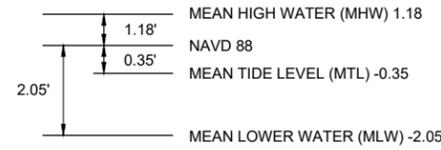
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ISSUED: 2022-08-09
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Sheet Reference No.
G-001
INDEX: 1 OF 14

File: G:\RA\10979-04\20 CAD\1_Achve1_10979-04 Nags Head Sheets - Sand Fencing Permit\1097904-G-001 - Plotter: 8/9/2022 5:47 PM by MORGAN, NEXOL ; Saved: 8/9/2022 2:06 PM by MORGAN

GENERAL NOTES:

- ELEVATIONS SHOWN ON THE DRAWINGS REFERENCE NAVD88 (NORTH AMERICAN VERTICAL DATUM 1988).
- ALL THE ELEVATIONS AND BATHYMETRY/TOPOGRAPHY SHOWN ON THE DRAWINGS REFERENCE NAVD88 (NORTH AMERICAN VERTICAL DATUM 1988) AND WERE OBTAINED DURING A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED. THE INFORMATION SHOULD ONLY BE CONSIDERED AS INDICATING THE CONDITIONS AT THAT TIME.
- THE MEAN HIGH WATER ELEVATION AND MEAN LOW WATER ELEVATION SHOWN ON THE BEACH FILL DRAWINGS AND BELOW ARE BASED ON NOAA TIDE STATION 8651370, DUCK, NC.



- SAND PLACEMENT SHOWN ON THE DRAWINGS PREVIOUSLY PERMITTED UNDER PERMIT No. CAMA MAJOR/MODIFICATION PERMIT 45-10.
- 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP.

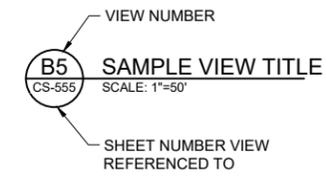
ABBREVIATIONS

CAMA	COASTAL AREA MANAGEMENT ACT	NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
FT	FEET OR FOOT	No.	NUMBER
MHW	MEAN HIGH WATER	TYP	TYPICAL
MLW	MEAN LOW WATER	BL	BASELINE
MTL	MEAN TIDE LEVEL	@	AT
NAD	NORTH AMERICAN DATUM		
NAVD	NORTH AMERICAN VERTICAL DATUM		

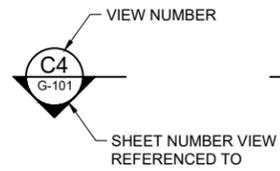
LEGEND

EXISTING		PROPOSED
-----	MEAN HIGH WATER LINE	-----
-----	MEAN LOW WATER LINE	-----
----- (5) -----	MAJOR CONTOUR	-----
-----	MINOR CONTOUR	-----
-----	FILL SLOPE LIMIT	-----
-----	FILL SLOPE BREAK	-----
-----	SLOPE INDICATOR	▽

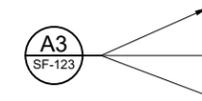
LEGEND



VIEW TITLE

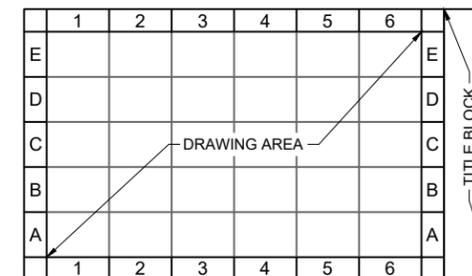


SECTION CALLOUT

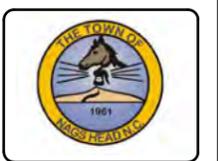
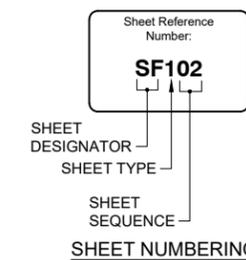


DETAIL CALLOUT WITH LEADERS

* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM:
 "VIEW NO./SHEET NO." (EG A1/CS-5001)



DRAWING AREA COORDINATE SYSTEM (DACS)



Age	Date	BJ	Description
0	2022-08-09		ISSUED FOR PERMIT

TOWN OF NAGS HEAD SAND FENCING PROJECT

GENERAL NOTES & ABBREVIATIONS

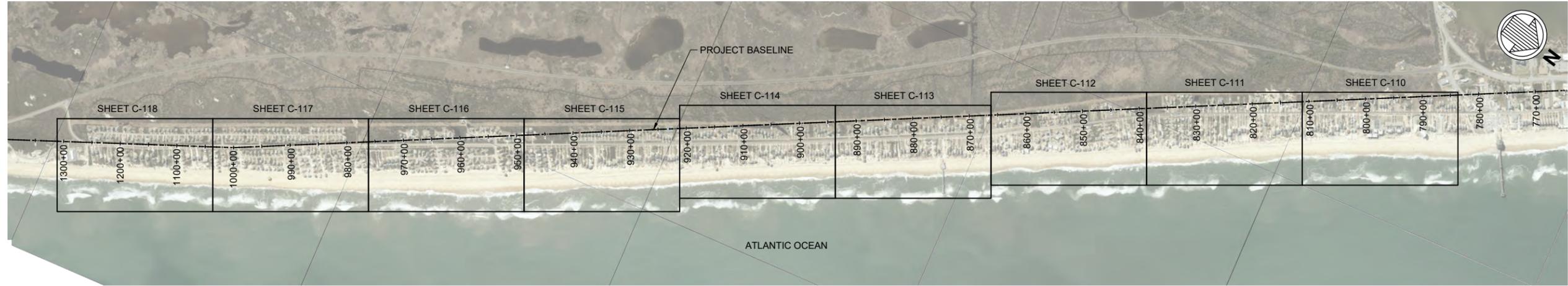
Designed by: M. BOSHEK	Date: 2022-08-09	Rev: 0
Dwn by: VNM	M&N Project No: 10979-04	
Chk by: BJ	Drawing code:	
Reviewed by: D. HUGGETT	Drawing Scale: AS NOTED	
Submitted by: MOFFATT & NICHOL	Per scale: 1/2" (8 SHEET)	

4700 FALLS OF NEUSE RD., SUITE 300
 ROSELAND, NC 27868
 919-781-4626
moffatt & nichol
 NC FIRM NO. F-0105

SEAL

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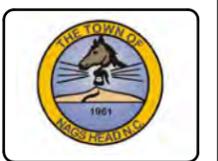
Sheet Reference No.
G-002
 INDEX: 2 OF 14



D1 KEY PLAN
G-003 SCALE: AS SHOWN



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Mark	Description	Date	By	Appr.
0	ISSUED FOR PERMIT	2022-08-09	BJ	

TOWN OF NAGS HEAD
SAND FENCING PROJECT

KEY PLAN

Designed by: M. BOSHEK	Date: 2022-08-09	Rev: 0
Drawn by: VNM	MAN Project No. 10979-04	
Checked by: BJ	Drawing code:	
Reviewed by: D. HUGGETT	Drawing Scale: AS NOTED	Per scale: 1/2" (8 SHEET)
Submitted by: MOFFATT & NICHOL		

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MOFFATT & NICHOL
NC FIRM NO. F-0105

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Sheet Reference No.
G-003
INDEX: 3 OF 14

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Mark	Description	Date	By	Age
1	UPDATE TO SAND FENCING LOCATION	2022-08-09	BJ	
0	ISSUED FOR PERMIT	2022-08-09	BJ	

TOWN OF NAGS HEAD
SAND FENCING PROJECT

SITE PLAN SHEET 1 OF 9

Designed by:	M. BOSHEK	Date:	2022-08-09	Rev:	1
Drawn by:	VNM	MAN Project No.:	10979-04	AS NOTED	12 (8 SHEET)
Checked by:	BJ	Drawing code:			
Reviewed by:	D. HUGGETT	Submitted by:	MOFFATT & NICHOL		

4700 FALLS OF NEUSE RD., SUITE 300
Raleigh, NC 27609
919-781-4626
MOFFATT & NICHOL
NC FIRM NO. F-0105

SEAL

Sheet Reference No.
C-110
INDEX: 4 OF 14



NOTES:

- CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
- THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
- NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. FOR GUIDANCE ON PLACEMENT OF PROPOSED SAND FENCING SEE SHEETS C-300 AND C-501.

NOTES (CONTINUED):

- THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
- FOR SAND FENCE DETAILS, SEE SHEET C-501.
- 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

LEGEND:

- (A) TYPE A SAND FENCE, SEE (A1) C-300
- (B) TYPE B SAND FENCE, SEE (B4) C-300
- (C) TYPE C SAND FENCE, SEE (C4) C-300
- (D) SUPPLEMENTAL SAND FENCING, SEE (D1) C-300



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Rev.	Date	By	Appr.
1	2022-08-09	BJ	BJ
0	2022-08-06	BJ	BJ

TOWN OF NAGS HEAD
SAND FENCING PROJECT

SITE PLAN SHEET 2 OF 9

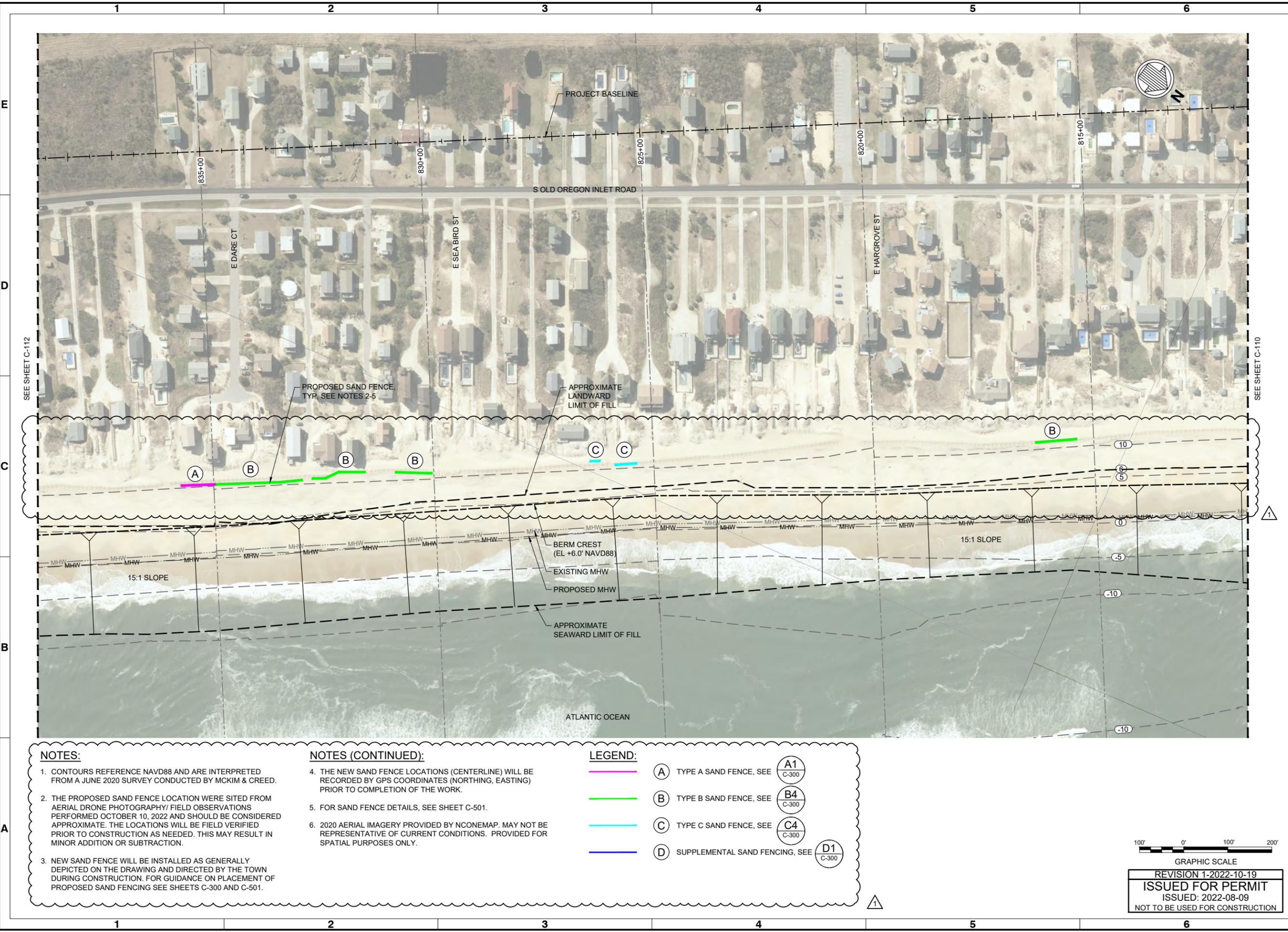
Designed by:	M. BOSHEK	Drawn by:	BJ	Reviewed by:	D. HUGGETT	Submitted by:	MOFFATT & NICHOL
Date:	2022-08-09	MAN Project No.:	10979-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 12' (8 SHEET)						

4700 FALLS OF NEUSE RD., SUITE 300
 FARMINGTON, NC 27834-4626
 NC FIRM NO. F-0105

moffatt & nichol

SEAL

Sheet Reference No.
C-111
 INDEX: 5 OF 14



NOTES:

1. CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
2. THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
3. NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. FOR GUIDANCE ON PLACEMENT OF PROPOSED SAND FENCING SEE SHEETS C-300 AND C-501.

NOTES (CONTINUED):

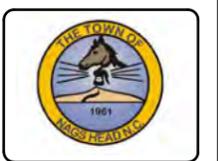
4. THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
5. FOR SAND FENCE DETAILS, SEE SHEET C-501.
6. 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

LEGEND:

- (A) TYPE A SAND FENCE, SEE **A1** C-300
- (B) TYPE B SAND FENCE, SEE **B4** C-300
- (C) TYPE C SAND FENCE, SEE **C4** C-300
- (D) SUPPLEMENTAL SAND FENCING, SEE **D1** C-300



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Rev.	Date	Description	By	Appr.
1	2022-08-09	UPDATE TO SAND FENCING LOCATION	BJ	
0	2022-08-06	ISSUED FOR PERMIT	BJ	

TOWN OF NAGS HEAD
SAND FENCING PROJECT

SITE PLAN SHEET 3 OF 9

Designed by:	M. BOSHEK	Drawn by:	BJ	Reviewed by:	D. HUGGETT	Submitted by:	MOFFATT & NICHOL
Date:	2022-08-09	MAN Project No.:	10979-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 12' (8 SHEET)						

4700 FALLS OF NEUSE RD., SUITE 300
Raleigh, NC 27609
919-781-4626
MOFFATT & NICHOL
NC FIRM NO. F-0105

SEAL

Sheet Reference No.
C-112
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NOTES:

1. CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
2. THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
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NOTES (CONTINUED):

4. THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
5. FOR SAND FENCE DETAILS, SEE SHEET C-501.
6. 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

LEGEND:

- (A) TYPE A SAND FENCE, SEE C-300
- (B) TYPE B SAND FENCE, SEE C-300
- (C) TYPE C SAND FENCE, SEE C-300
- (D) SUPPLEMENTAL SAND FENCING, SEE C-300



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Mark	Description	Date	By	Appr.
1	UPDATE TO SAND FENCING LOCATION	2022-08-09	BJ	
0	ISSUED FOR PERMIT	2022-08-09	BJ	

TOWN OF NAGS HEAD
SAND FENCING PROJECT

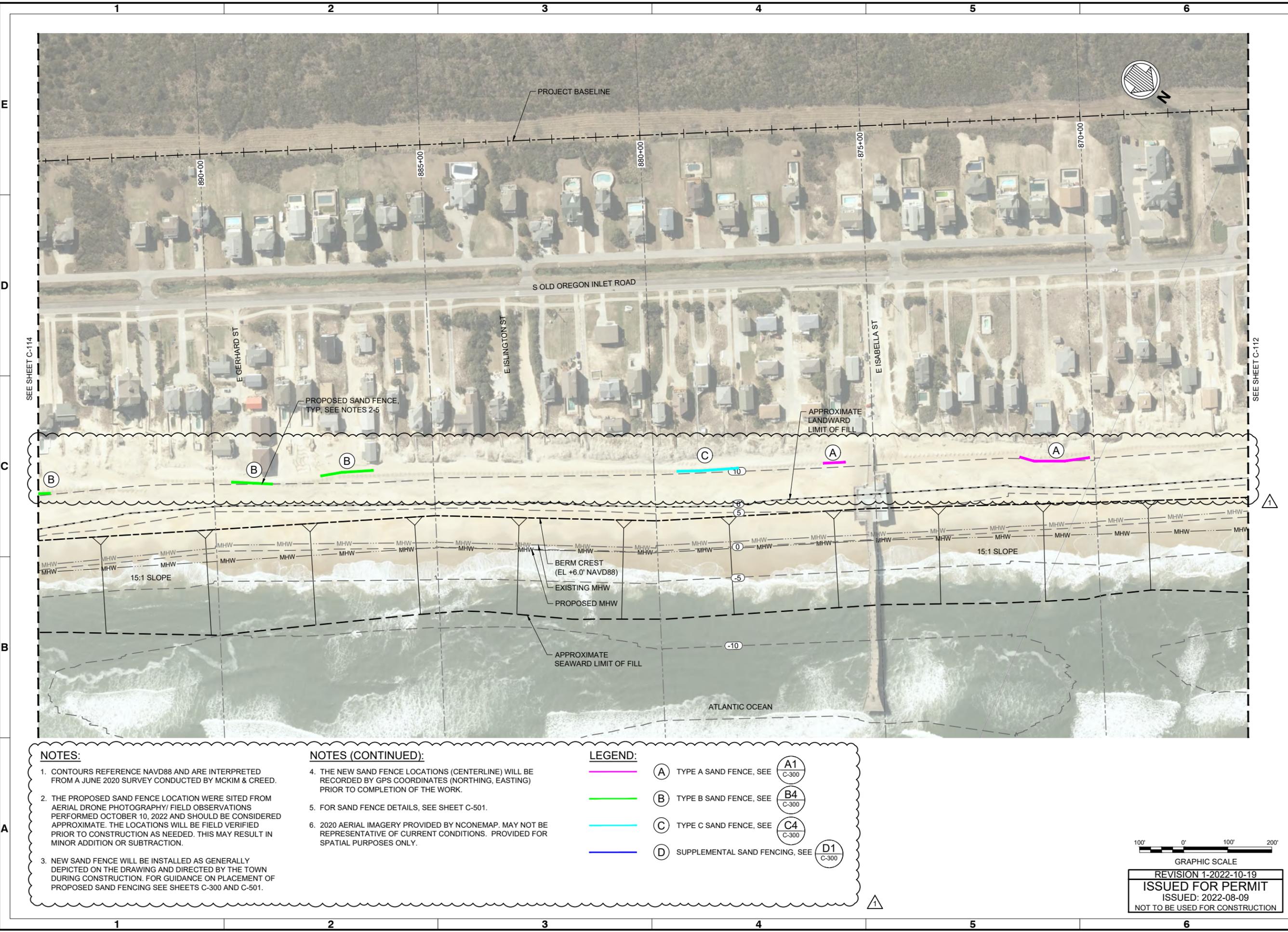
SITE PLAN SHEET 4 OF 9

Designed by:	M. BOSHEK	Date:	2022-08-09	Rev:	1
Dwn by:	VNM	MAN Project No.:	10979-04	AS NOTED	12 (8 SHEET)
Reviewed by:	D. HUGGETT	Drawing code:			
Submitted by:	MOFFATT & NICHOL	Drawing Scale:			

4700 FALLS OF NEUSE RD., SUITE 300
RAVENHURST, NC 28580
919-781-4626
mofoffatt & nichol
NC FIRM NO. F-0105

SEAL

Sheet Reference No.
C-113
INDEX: 7 OF 14



NOTES:

- CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
- THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
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NOTES (CONTINUED):

- THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
- FOR SAND FENCE DETAILS, SEE SHEET C-501.
- 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

LEGEND:

- (A) TYPE A SAND FENCE, SEE A1
C-300
- (B) TYPE B SAND FENCE, SEE B4
C-300
- (C) TYPE C SAND FENCE, SEE C4
C-300
- (D) SUPPLEMENTAL SAND FENCING, SEE D1
C-300



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Rev.	Date	Description
2	2022-08-09	UPDATE TO SECTIONS AND DETAILS
1	2022-11-14	UPDATE TO SAND FENCING LOCATION
0	2022-08-06	ISSUED FOR PERMIT

TOWN OF NAGS HEAD
SAND FENCING PROJECT

SITE PLAN SHEET 5 OF 9

Designed by:	M. BOSHEK	Date:	2022-08-09	Rev:	2
Drawn by:	VNM	MAN Project No.:	10979-04	Drawing code:	
Checked by:	BJ	Submitted by:	MCFATT & NICHOL	Drawing Scale:	AS NOTED
Reviewed by:	D. HUGGETT	Per scale:	1/2" (8 SHEET)		

4700 FALLS OF NEUSE RD., SUITE 300
Raleigh, NC 27609
919-781-4626
mcfatt & nichol
NC FIRM NO. F-0105

SEAL

Sheet Reference No.
C-114
INDEX: 8 OF 14



NOTES:

- CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
- THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
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NOTES (CONTINUED):

- THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
- FOR SAND FENCE DETAILS, SEE SHEET C-501.
- 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

LEGEND:

- (A) TYPE A SAND FENCE, SEE (A1) C-300
- (B) TYPE B SAND FENCE, SEE (B4) C-300
- (C) TYPE C SAND FENCE, SEE (C4) C-300
- (D) SUPPLEMENTAL SAND FENCING, SEE (D1) C-300



REVISION 2-2022-11-14
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Rev.	Date	By	Appr.
1	2022-08-09	BJ	BJ
0	2022-08-06	BJ	BJ

TOWN OF NAGS HEAD
SAND FENCING PROJECT

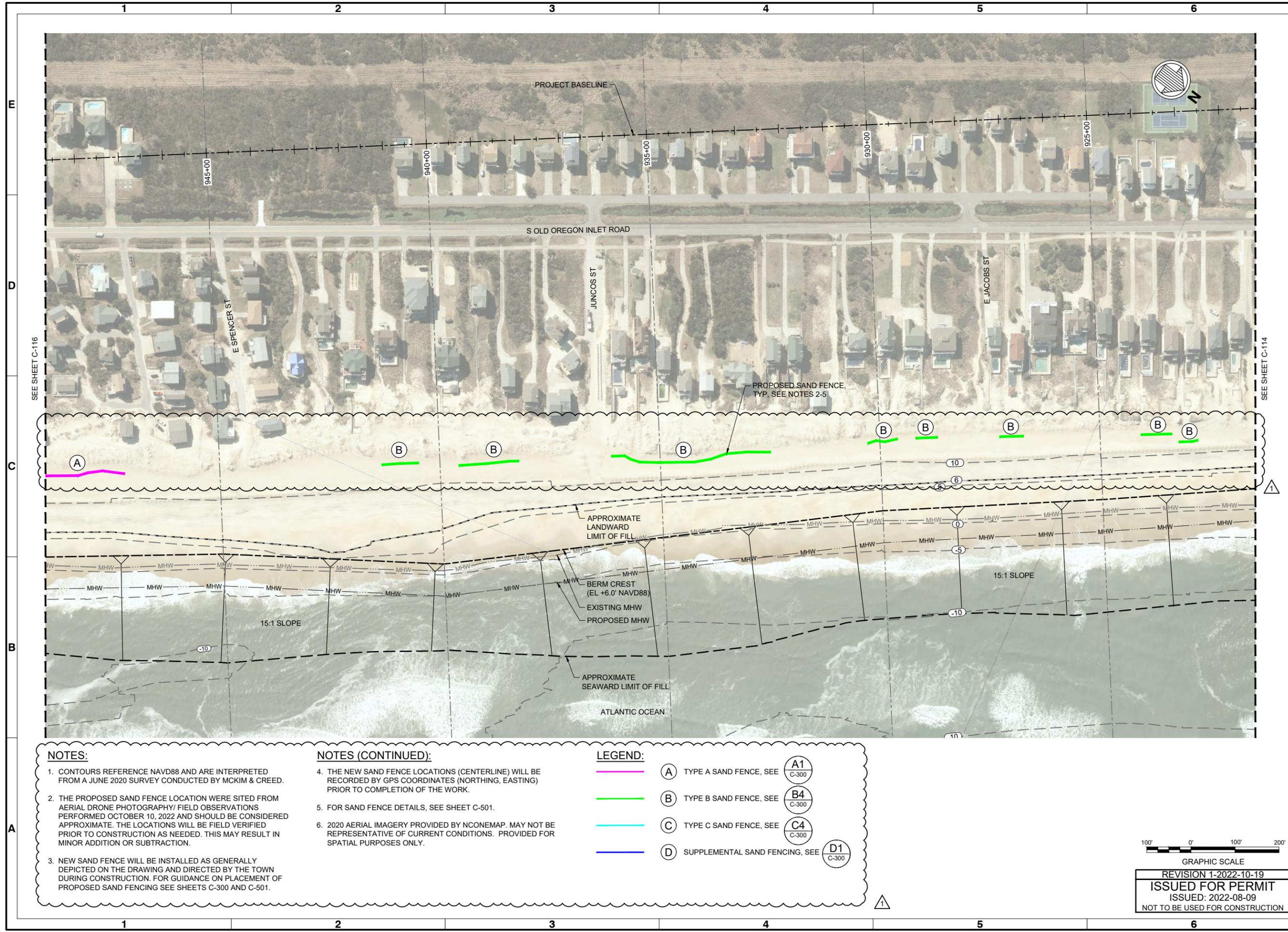
SITE PLAN SHEET 6 OF 9

Designed by:	M. BOSHEK	Drawn by:	BJ	Reviewed by:	D. HUGGETT	Submitted by:	MOFFATT & NICHOL
Date:	2022-08-09	MAN Project No.:	10979-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	1" = 12' (6 SHEET)						

4700 FALLS OF NEUSE RD., SUITE 300
RAVENHILL, NC 27834-4626
MOFFATT & NICHOL
NC FIRM NO. F-0105

SEAL

Sheet Reference No.
C-115
INDEX: 9 OF 14



- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
 - THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
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- NOTES (CONTINUED):**
- THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
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- LEGEND:**
- (A) TYPE A SAND FENCE, SEE C-300
 - (B) TYPE B SAND FENCE, SEE C-300
 - (C) TYPE C SAND FENCE, SEE C-300
 - (D1) SUPPLEMENTAL SAND FENCING, SEE C-300



REVISION 1-2022-10-19
ISSUED FOR PERMIT
ISSUED: 2022-08-09
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File: Q:\RA\10979-04\120 CHADD\1_Achvel_10979-04 Nags Head Sheets - Sand Fencing Permit\1097904-C-115 - Platted - 10/20/2022 9:41 AM by MORGAN_MEKOL; Saved: 10/20/2022 9:39 AM by MKORGAN



Rev.	Date	Description	Mark	Author
1	2022-08-09	UPDATE TO SAND FENCING LOCATION ISSUED FOR PERMIT	0	BJ

TOWN OF NAGS HEAD
SAND FENCING PROJECT

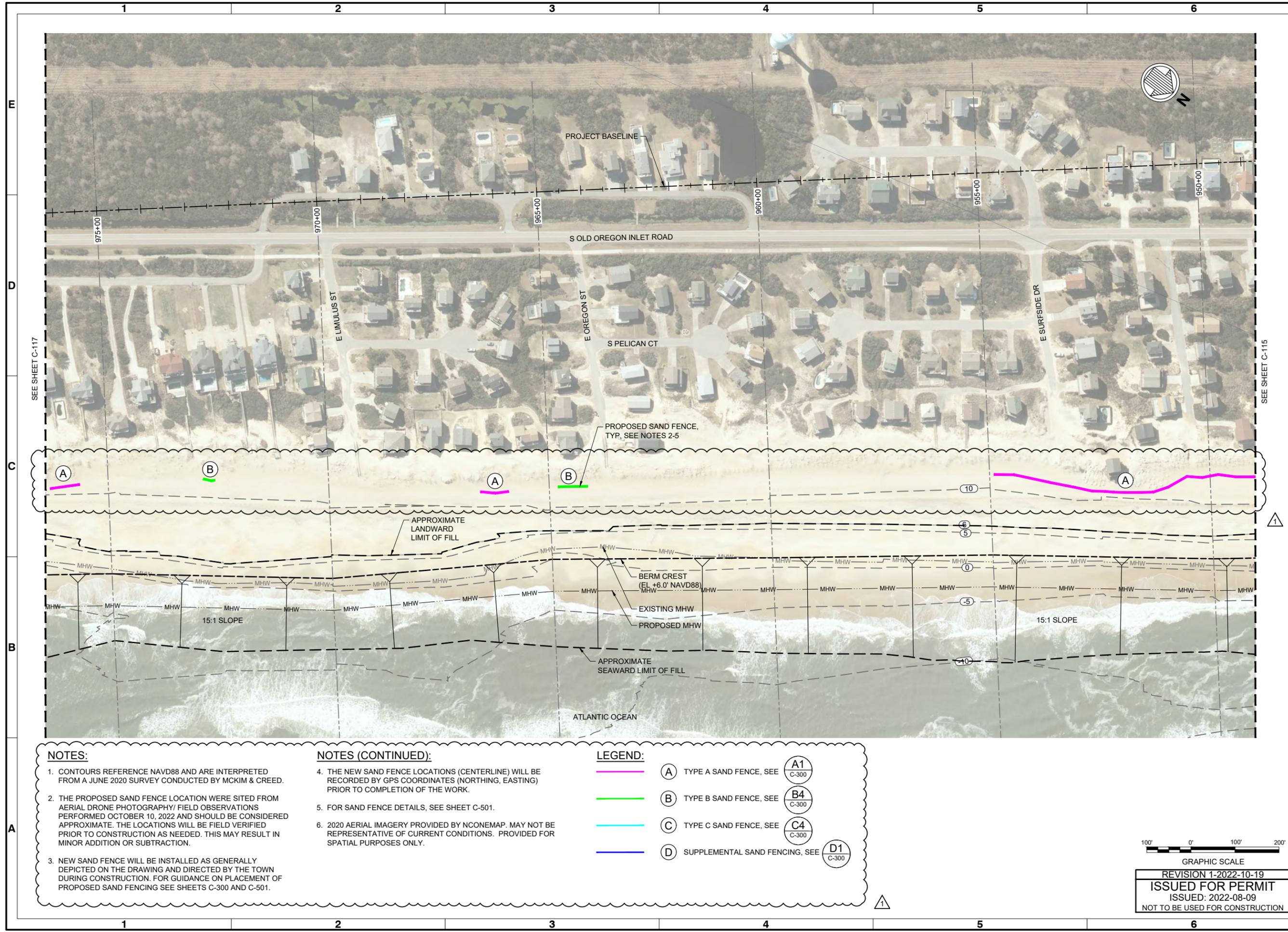
SITE PLAN SHEET 7 OF 9

Designed by:	M. BOSHEK	Drawn by:	BJ	Reviewed by:	D. HUGGETT	Submitted by:	MOFFATT & NICHOL
Date:	2022-08-09	MAN Project No.:	10979-04	Drawing code:		Drawing Scale:	AS NOTED
Per. No.:	12 (8 SHEET)						

4700 FALLS OF NEUSE RD., SUITE 300
Raleigh, NC 27609
919-781-4626
MOFFATT & NICHOL
NC FIRM NO. F-0105

SEAL

Sheet Reference No.
C-116
INDEX: 10 OF 14



NOTES:

- CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
- THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
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NOTES (CONTINUED):

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- FOR SAND FENCE DETAILS, SEE SHEET C-501.
- 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

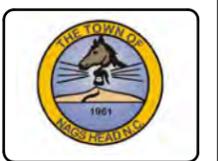
LEGEND:

- (A) TYPE A SAND FENCE, SEE C-300
- (B) TYPE B SAND FENCE, SEE C-300
- (C) TYPE C SAND FENCE, SEE C-300
- (D) SUPPLEMENTAL SAND FENCING, SEE C-300

100' 0' 100' 200'
GRAPHIC SCALE

REVISION 1-2022-10-19
ISSUED FOR PERMIT
ISSUED: 2022-08-09
NOT TO BE USED FOR CONSTRUCTION

File: Q:\RA\10979-04\120 CHDD\1_Achvel_10979-04 Nags Head Sheets - Sand Fencing Permit\1097904-C-116 - Plotted: 10/19/2022 10:55 AM by MORGAN, NEKOL - Saved: 10/19/2022 10:32 AM by MORGAN



Rev.	Date	Description
2	2022-11-14	UPDATE TO SECTIONS AND DETAILS
1	2022-08-09	UPDATE TO SAND FENCING LOCATION
0	2022-08-06	ISSUED FOR PERMIT

TOWN OF NAGS HEAD
SAND FENCING PROJECT

SITE PLAN SHEET 8 OF 9

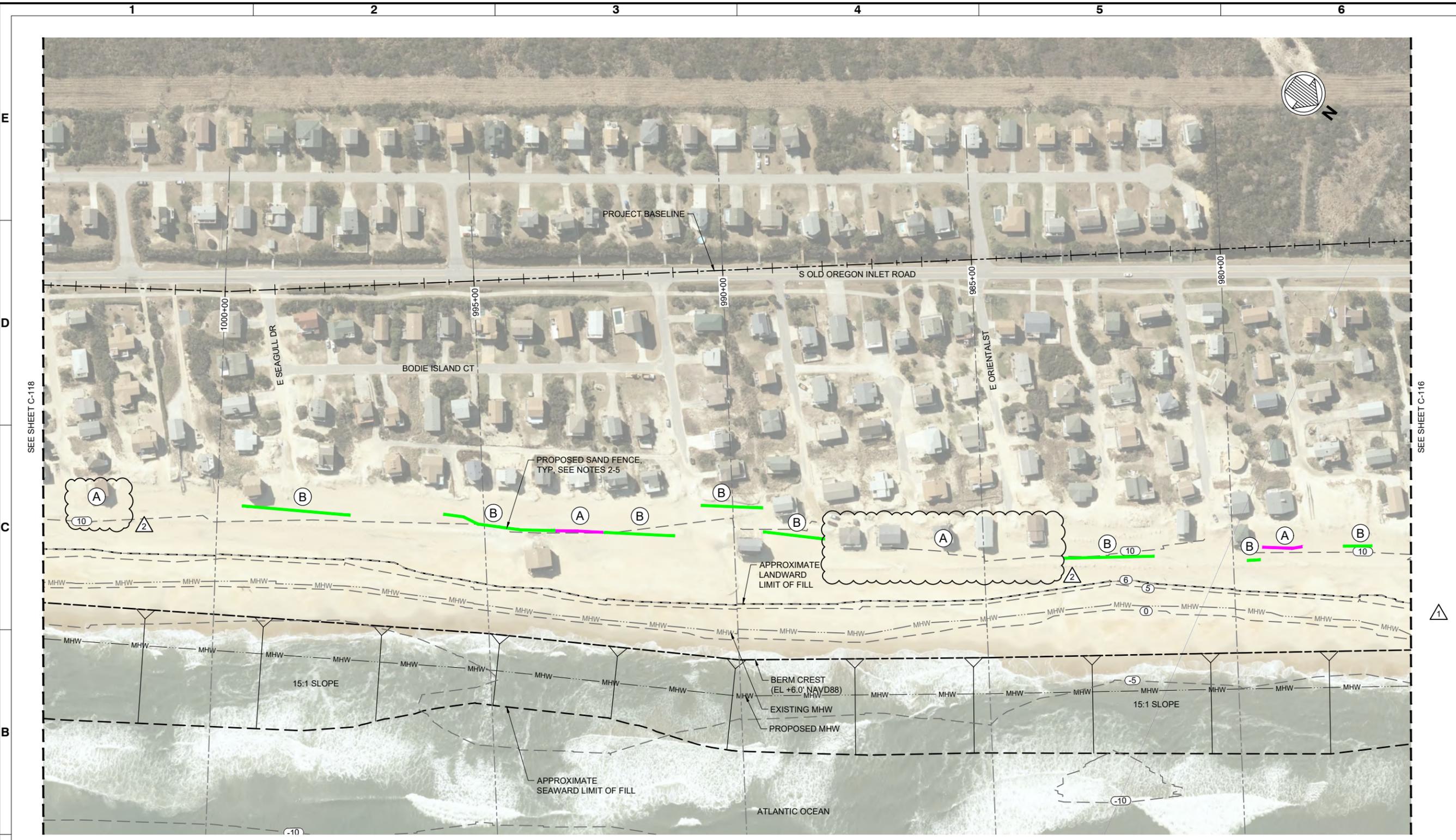
Designed by:	M. BOSHEK	Date:	2022-08-09	Rev:	2
Dwn by:	VNM	MAN Project No.:	10979-04	Drawing code:	AS NOTED
Reviewed by:	D. HUGGETT	Drawing Scale:	1" = 12' (8 SHEET)	Per scale:	12' (8 SHEET)
Submitted by:	MOFFATT & NICHOL				

4700 FALLS OF NEUSE RD., SUITE 300
 ROSELAND, NC 27588
 919-781-4626
 NC FIRM NO. F-0105

moffatt & nichol

SEAL

Sheet Reference No.
C-117
 INDEX: 11 OF 14



- NOTES:**
- CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
 - THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
 - NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. FOR GUIDANCE ON PLACEMENT OF PROPOSED SAND FENCING SEE SHEETS C-300 AND C-501.

- NOTES (CONTINUED):**
- THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
 - FOR SAND FENCE DETAILS, SEE SHEET C-501.
 - 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

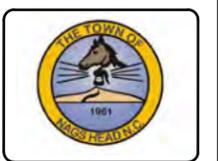
- LEGEND:**
- (A) TYPE A SAND FENCE, SEE C-300
 - (B) TYPE B SAND FENCE, SEE C-300
 - (C) TYPE C SAND FENCE, SEE C-300
 - (D) SUPPLEMENTAL SAND FENCING, SEE C-300

100' 0' 100' 200'

GRAPHIC SCALE

REVISION 2-2022-11-14
ISSUED FOR PERMIT
 ISSUED: 2022-08-09
 NOT TO BE USED FOR CONSTRUCTION

File: Q:\RA\10979-04\20 CHADDI_Achvel_10979-04 Nags Head Sheets - Sand Fencing Permit\1097904-C-117 - Plotted: 11/14/2022 3:03 PM by MORGAN_MEKOL; Saved: 11/14/2022 1:31 PM by NMORGAN



Mark	Description	Date	By	Appr.
1	UPDATE TO SAND FENCING LOCATION	2022-08-09	BJ	
0	ISSUED FOR PERMIT	2022-08-09	BJ	

TOWN OF NAGS HEAD
SAND FENCING PROJECT

SITE PLAN SHEET 9 OF 9

Designed by:	M. BOSHEK	Date:	2022-08-09	Rev:	1
Drawn by:	VNM	MAN Project No.:	10979-04	AS NOTED	12 (8 SHEET)
Reviewed by:	D. HUGGETT	Drawn by:	BJ	Per scale:	1" = 12' (8 SHEET)
Submitted by:	MOFFATT & NICHOL	Drawing code:			

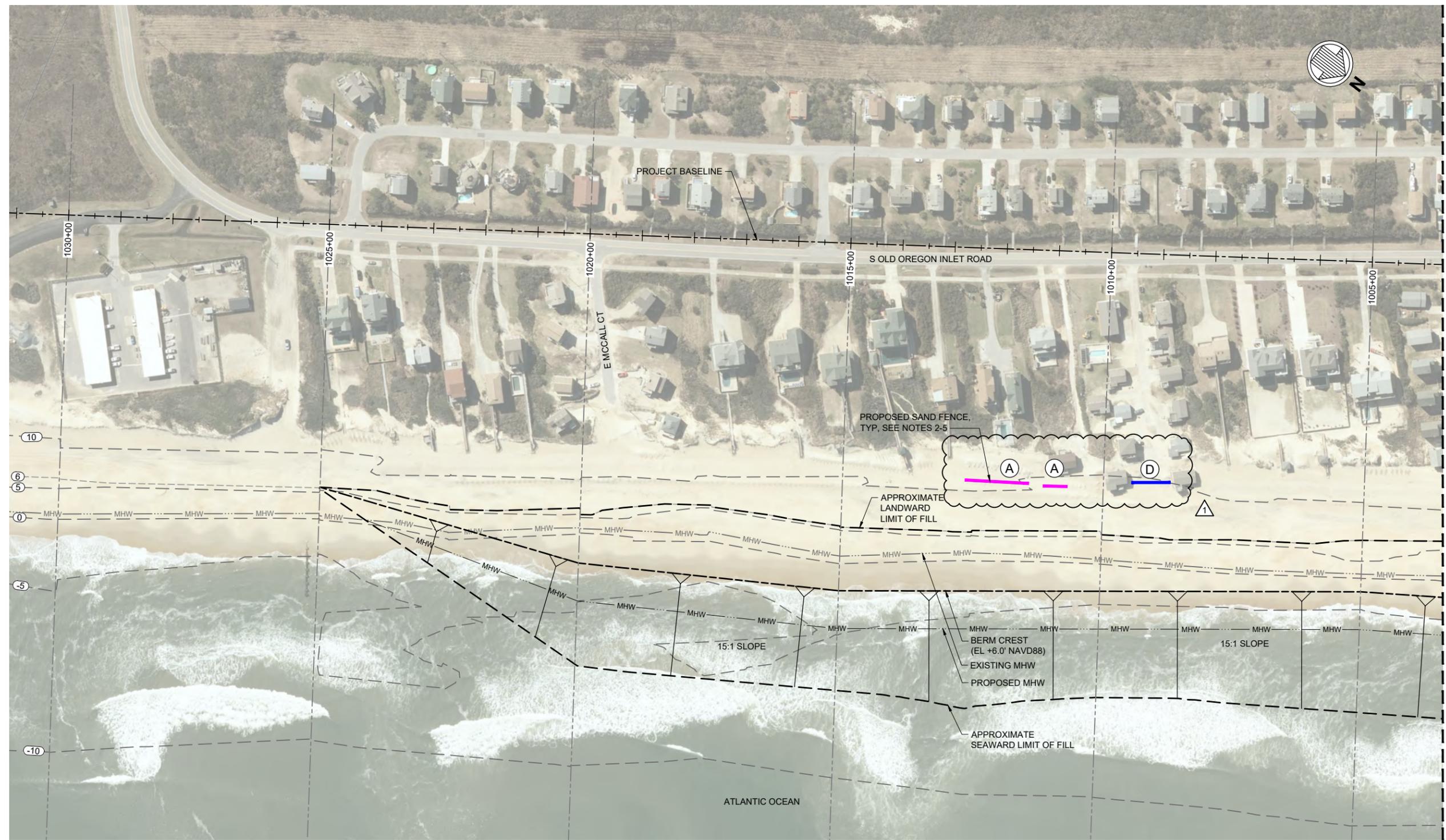
4700 FALLS OF NEUSE RD., SUITE 300
 RAYLEIGH, NC 27609
 919-781-4626
 NC FIRM NO. F-0105

moffatt & nichol

SEAL

Sheet Reference No.
C-118
INDEX: 12 OF 14

File: Q:\RA10979-04\20 CAD\1_Achvel_10979-04 Nags Head Sheets - Sand Fencing Permit\1097904-C-118 - Plotted: 10/19/2022 10:56 AM by MORGAN, NEKOL. Saved: 10/19/2022 10:31 AM by MORGAN



NOTES:

- CONTOURS REFERENCE NAVD88 AND ARE INTERPRETED FROM A JUNE 2020 SURVEY CONDUCTED BY MCKIM & CREED.
- THE PROPOSED SAND FENCE LOCATION WERE SITED FROM AERIAL DRONE PHOTOGRAPHY/ FIELD OBSERVATIONS PERFORMED OCTOBER 10, 2022 AND SHOULD BE CONSIDERED APPROXIMATE. THE LOCATIONS WILL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS NEEDED. THIS MAY RESULT IN MINOR ADDITION OR SUBTRACTION.
- NEW SAND FENCE WILL BE INSTALLED AS GENERALLY DEPICTED ON THE DRAWING AND DIRECTED BY THE TOWN DURING CONSTRUCTION. FOR GUIDANCE ON PLACEMENT OF PROPOSED SAND FENCING SEE SHEETS C-300 AND C-501.

NOTES (CONTINUED):

- THE NEW SAND FENCE LOCATIONS (CENTERLINE) WILL BE RECORDED BY GPS COORDINATES (NORTHING, EASTING) PRIOR TO COMPLETION OF THE WORK.
- FOR SAND FENCE DETAILS, SEE SHEET C-501.
- 2020 AERIAL IMAGERY PROVIDED BY NCONEMAP. MAY NOT BE REPRESENTATIVE OF CURRENT CONDITIONS. PROVIDED FOR SPATIAL PURPOSES ONLY.

LEGEND:

- (A) TYPE A SAND FENCE, SEE C-300
- (B) TYPE B SAND FENCE, SEE C-300
- (C) TYPE C SAND FENCE, SEE C-300
- (D) SUPPLEMENTAL SAND FENCING, SEE C-300



REVISION 1-2022-10-19
ISSUED FOR PERMIT
 ISSUED: 2022-08-09
 NOT TO BE USED FOR CONSTRUCTION

SEE SHEET C-117



Mark	Date	Description
2	2022-11-14	UPDATE TO SECTIONS AND DETAILS
1	2022-08-09	UPDATE TO SAND FENCING LOCATION
0	2022-08-06	ISSUED FOR PERMIT

TOWN OF NAGS HEAD SAND FENCING PROJECT

TYPICAL SECTIONS

Designed by:	M. BOSHEK	Drawn by:	BJ	Reviewed by:	D. HUGGETT	Submitted by:	MOFFATT & NICHOL
Date:	2022-08-09	MAN Project No.:	10979-04	Drawing code:		Drawing Scale:	AS NOTED
Per scale:	12" (8 SHEET)						

4700 FALLS OF NEUSE RD., SUITE 300
 FARMINGTON, NC 27834-4626
 NC FIRM NO. F-0105

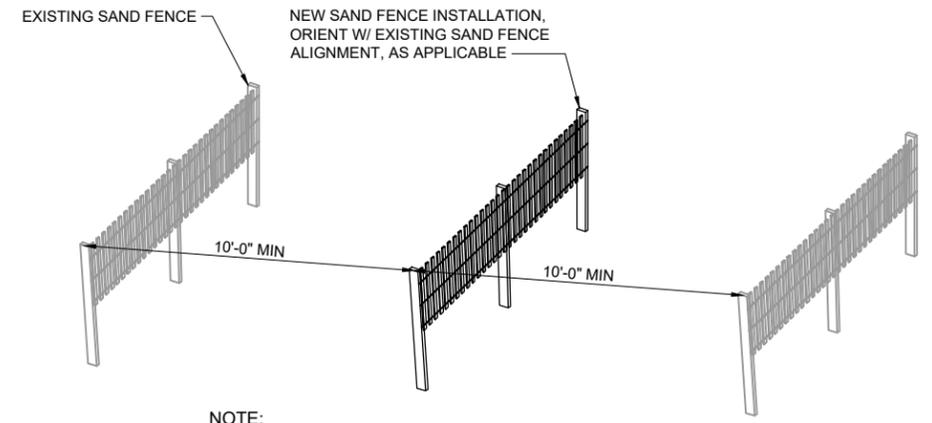
moffatt & nichol

SEAL

Sheet Reference No.
C-300
 INDEX: 13 OF 14

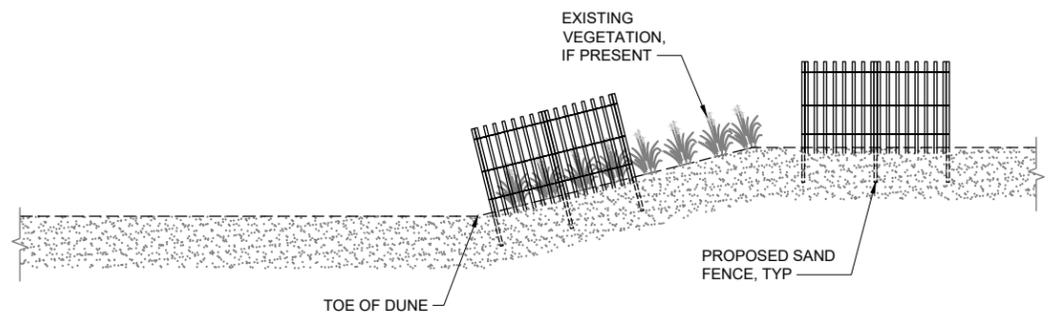
NOTES:

- FOR LOCATIONS ON THE INSTALLATION OF PROPOSED SAND FENCING, SEE SHEET C-110 THRU C-118.
- VEGETATION NOT SHOWN IN ALL SECTIONS. INSTALLATION OF SAND FENCE SHOULD ATTEMPT TO MINIMIZE IMPACT ON ESTABLISHED VEGETATION.
- NO SAND FENCE SHALL BE ERECTED OR HEIGHTENED WHERE AT LEAST ONE SAND FENCE HAS AN AVERAGE HEIGHT OVER 12 INCHES LOCATED OCEANWARD OF 20 FEET BEHIND WHERE THE DUNE CREST CURRENTLY EXISTS.



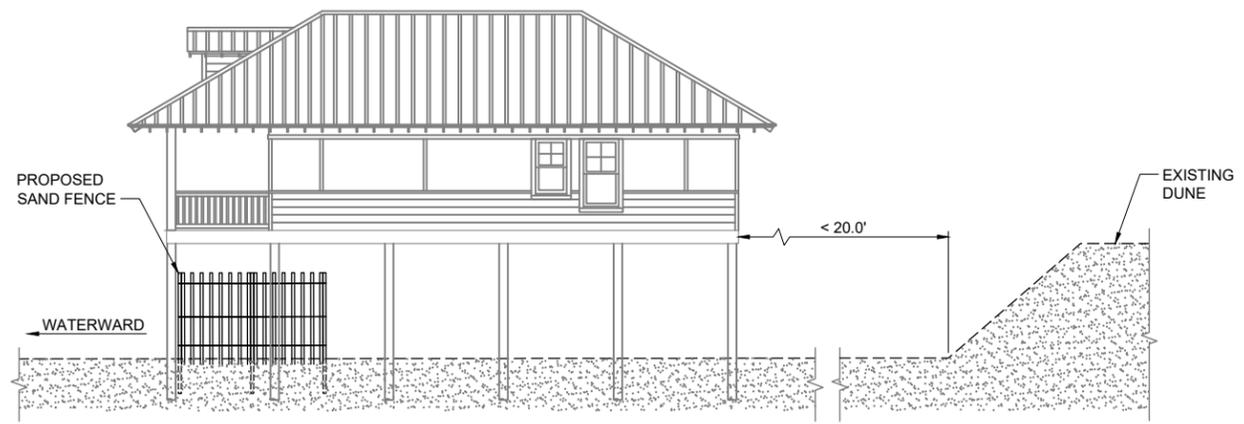
NOTE:
 IF SPACING BETWEEN EXISTING SAND FENCES IS GREATER THAN 20 FEET, INSTALL NEW SAND FENCE PANEL BETWEEN. SPACING BETWEEN ADJACENT END POSTS SHOULD BE A MINIMUM OF 10 FEET.

D1 SUPPLEMENTAL SAND FENCE
 C-300 SCALE: NTS



NOTE:
 ERECT NEW SAND FENCE LANDWARD OF THE TOE OF SLOPE OR THE EDGE OF EXISTING VEGETATION. IF SLOPE IS FULLY VEGETATED, PLACE SAND FENCE BEHIND VEGETATION. ONLY INSTALL SAND FENCE IN ONE OF THE LOCATIONS SHOWN BASED ON EXISTING SITE CONDITIONS.

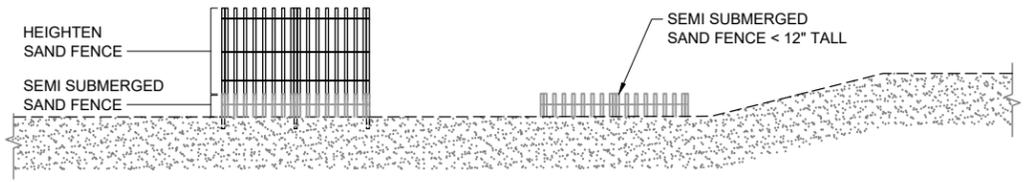
TYPE A: NEW SAND FENCE



NOTE:
 ERECT NEW SAND FENCE INLINE WITH THE MOST WATERWARD POINT OF OCCUPIED DWELLINGS WHICH ARE WITHIN 20 FEET OF AN ESTABLISHED DUNE. IF DWELLING IS FURTHER OCEANWARD THAN 20 FEET, APPLY SAND FENCE GUIDANCE AS OTHER TYPE BASED ON PRESENCE OR ABSENCE OF LEEWARD SAND FENCE.

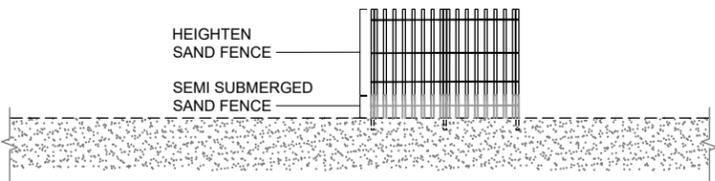
TYPE A: NEW SAND FENCE TO THE SIDE OF OCCUPIED HOMES

A1 TYPE A - TYPICAL SECTIONS
 C-300 SCALE: NTS



NOTE:
 WHERE TWO ROWS OF SAND FENCE EXIST AND BOTH ARE AN AVERAGE OF 12 INCHES OR LESS IN HEIGHT ABOVE THE SAND SURFACE, INSTALL NEW SAND FENCE WITHIN THE SAME FOOTPRINT OF THE OCEANWARD ROW LEAVING THE EXISTING SAND FENCES IN PLACE.

C4 TYPE C: HEIGHTEN OCEANWARD SAND FENCE OVER EXISTING FOOTPRINT
 C-300 SCALE: NTS

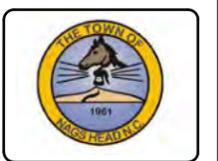


NOTE:
 WHERE SAND FENCE IS AN AVERAGE OF 12 INCHES OR LESS IN HEIGHT ABOVE THE SAND SURFACE, INSTALL NEW SAND FENCE WITHIN THE SAME FOOTPRINT. LEAVE EXISTING SAND FENCE IN PLACE.

B4 TYPE B: HEIGHTEN SAND FENCE OVER EXISTING FOOTPRINT
 C-300 SCALE: NTS

REVISION 2-2022-11-14
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Rev.	Date	By	Appr.
2	2022-11-14	BJ	
1	2022-08-09	BJ	
0	2022-08-09	BJ	

TOWN OF NAGS HEAD
SAND FENCING PROJECT

SAND FENCE DETAILS

Date:	2022-08-09	Rev:	2
Designed by:	M. BOSHEK	M&N Project No.:	10979-04
Drawn by:	BJ	Drawing code:	
Checked by:	VNM	Drawing Scale:	AS NOTED
Reviewed by:	D. HUGGETT	Per scale:	1/2" (8 SHEET)
Submitted by:	MOFFATT & NICHOL		

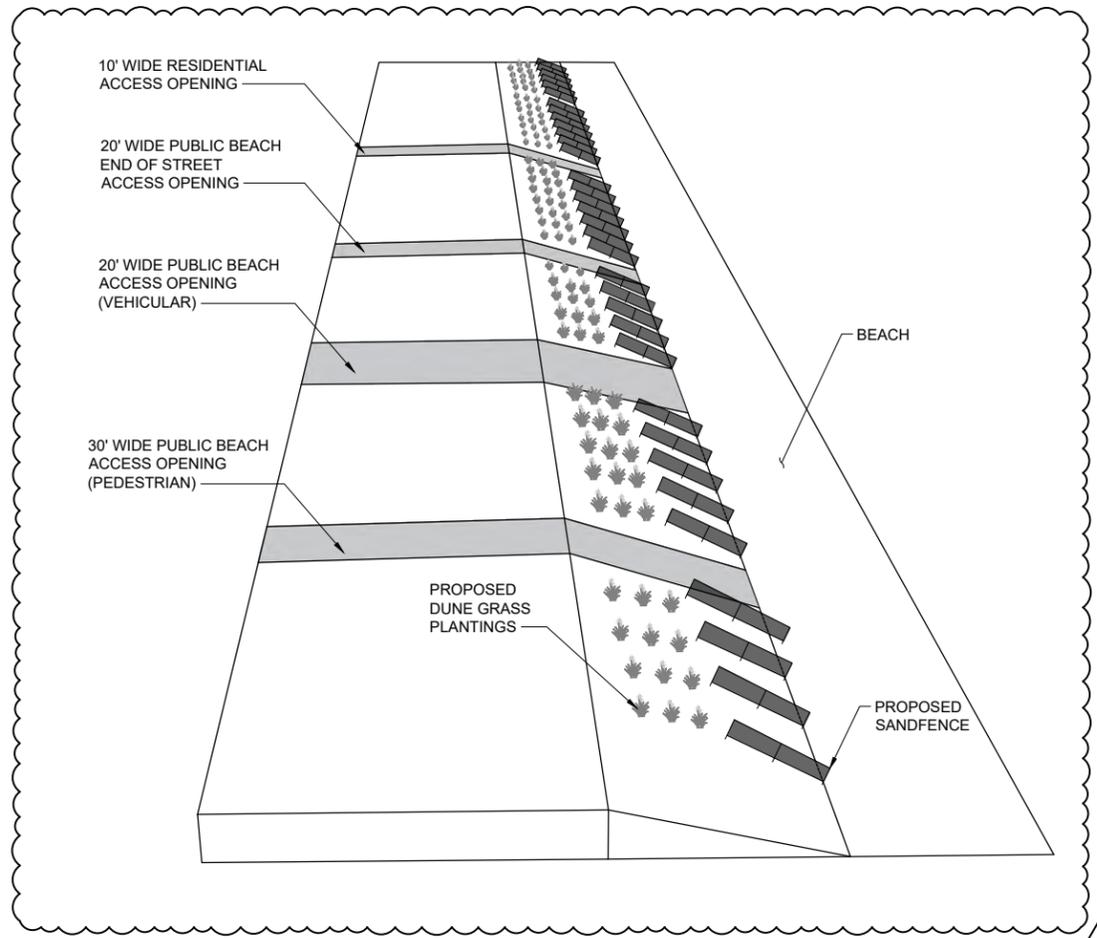
4700 FALLS OF NEUSE RD., SUITE 300
 FARMINGTON, NC 27531
 919-781-4626
 NC FIRM NO. F-0105

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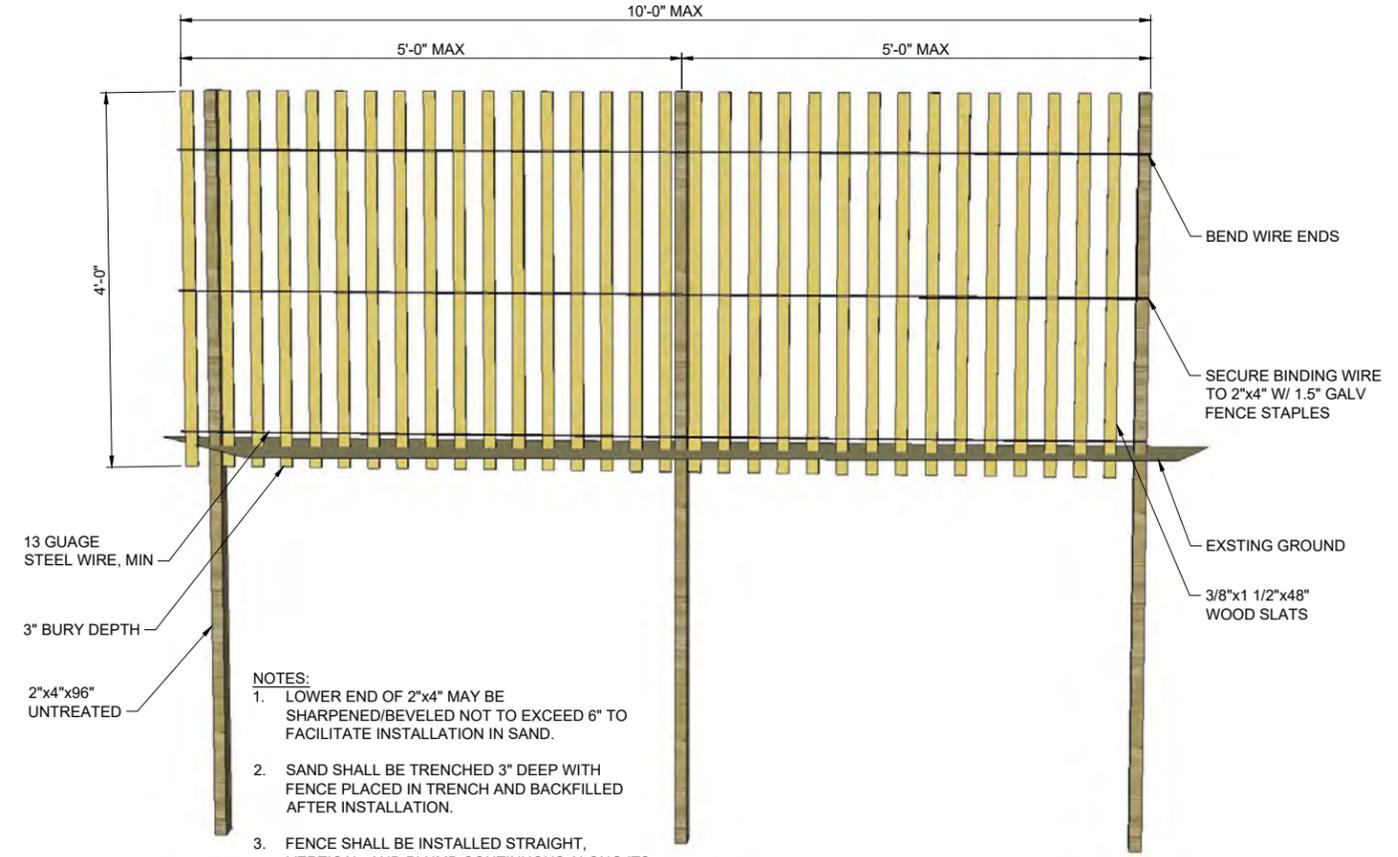
SEAL

Sheet Reference No.
C-501
 INDEX: 14 OF 14

File: Q:\RAI10979-04\120 CHADDI_Achvel_10979-04 Nags Head Sheets - Sand Fencing Permit\1097904-C-501 - Plotted: 11/14/2022 3:04 PM by MORGAN_MEKOL; Saved: 11/14/2022 2:10 PM by MKORGAN



C1 SAND FENCE & VEGETATION ACCESS LAYOUT
 C-501 SCALE: NTS

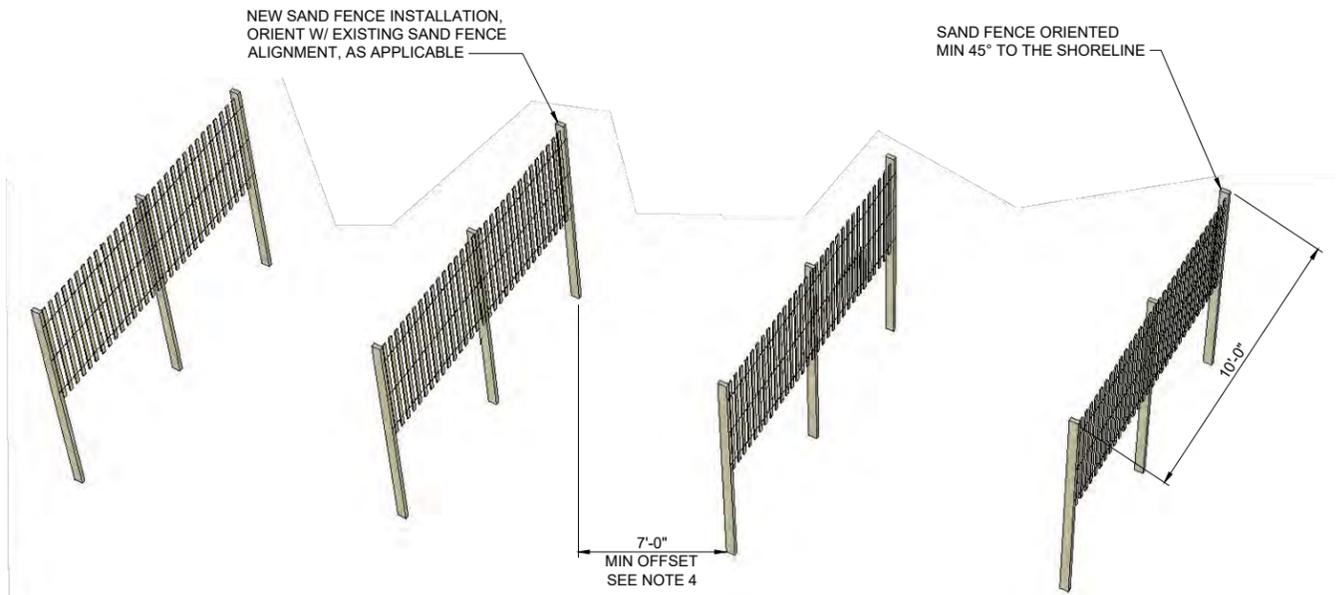


- NOTES:**
1. LOWER END OF 2"x4" MAY BE SHARPENED/BEVELED NOT TO EXCEED 6" TO FACILITATE INSTALLATION IN SAND.
 2. SAND SHALL BE TRENCHED 3" DEEP WITH FENCE PLACED IN TRENCH AND BACKFILLED AFTER INSTALLATION.
 3. FENCE SHALL BE INSTALLED STRAIGHT, VERTICAL, AND PLUMB CONTINUOUS ALONG ITS LENGTH.

C3 SAND FENCE DETAIL
 C-110 SCALE: NTS

SAND FENCE SPECIFICATION NOTES:

1. SAND FENCING SHALL BE CONSTRUCTED FROM EVENLY SPACED THIN UNTREATED WOODEN VERTICAL SLATES CONNECTED WITH TWISTED WIRE, FOUR FEET IN HEIGHT AND SUPPORTED BY THREE WOODEN STAKES OR POSTS PER 1 FOOT SECTION, ONE STAKE AT EACH END, AND ONE IN THE MIDDLE.
2. SAND FENCING SHALL BE NEUTRAL IN COLOR (BEIGE, TAN, NATURAL WOOD FINISH). PLASTIC FENCING SHALL NOT BE ALLOWED.
3. FENCING MATERIAL SHALL BE INSTALLED ON THE NORTHEAST SIDE OF THE POSTS, AND SAND FENCING SHALL BE INSTALLED AT AN ANGLE NO LESS THAN 45 DEGREES TO THE SHORELINE.
4. EACH ROW OF SAND FENCING SHALL MAINTAIN A 7-FT MINIMUM OFFSET BETWEEN THE END POSTS, FROM ALL ADJACENT ROWS OF FENCING.
5. SAND FENCING SHALL BE ATTACHED TO THE POST OR STAKES IN THE FOLLOWING MANNER:
 - A. 2X4 POSTS SHALL BE INSTALLED SUCH THAT THE FENCING SHALL BE FASTENED TO THE 2" SIDE OF THE 2 X 4 WITH AN OVERLAP PROVIDED AT THE END POSTS AND ATTACHED FLUSH TO THE 4" SIDE OF THE 2X4.
 - B. ON EACH POST, EACH WIRE IN THE FENCING SHALL BE ATTACHED TO THE POST BY AN INCH AND A HALF (1.5") HOT DIPPED GALVANIZED FENCING STAPLE.
 - C. THE WIRE ENDS SHALL BE BENT ON THE END IN A MANNER TO PREVENT INJURY TO PEDESTRIAN TRAFFIC.
6. FENCING SHALL BE STRETCHED TIGHT AND EACH UNIT SHALL BE STRAIGHT ALONG ITS LENGTH WITH POSTS INSTALLED PLUMB AND TO THE SPECIFIED DEPTH.
7. BEFORE INSTALLING THE FENCING MATERIAL THE CONTRACTOR SHALL TRENCH UNDER THE FENCE SO THAT WHEN INSTALLED THE BOTTOM OF THE FENCE IS 3" BELOW GRADE.
8. BREAKS IN THE NEW SAND FENCE LOCATIONS WILL BE PROVIDED AT EACH PUBLIC/PRIVATE ACCESS LOCATION AND MIMIC APPARENT OPENS IN EXISTING FENCE LINES. THE BREAKS SHALL HAVE A WIDTH RELATED TO THE PATH'S UTILITY: 10-FT WIDE AT RESIDENTIAL ACCESS, 20-FT WIDE AT END OF STREET ACCESS, 30-FT WIDE AT PUBLIC BEACH PEDESTRIAN ACCESS, AND 50-FT WIDE AT PUBLIC BEACH VEHICULAR ACCESS, SEE C1/C-501.



A3 PLACEMENT DETAIL
 C-501 SCALE: NTS

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