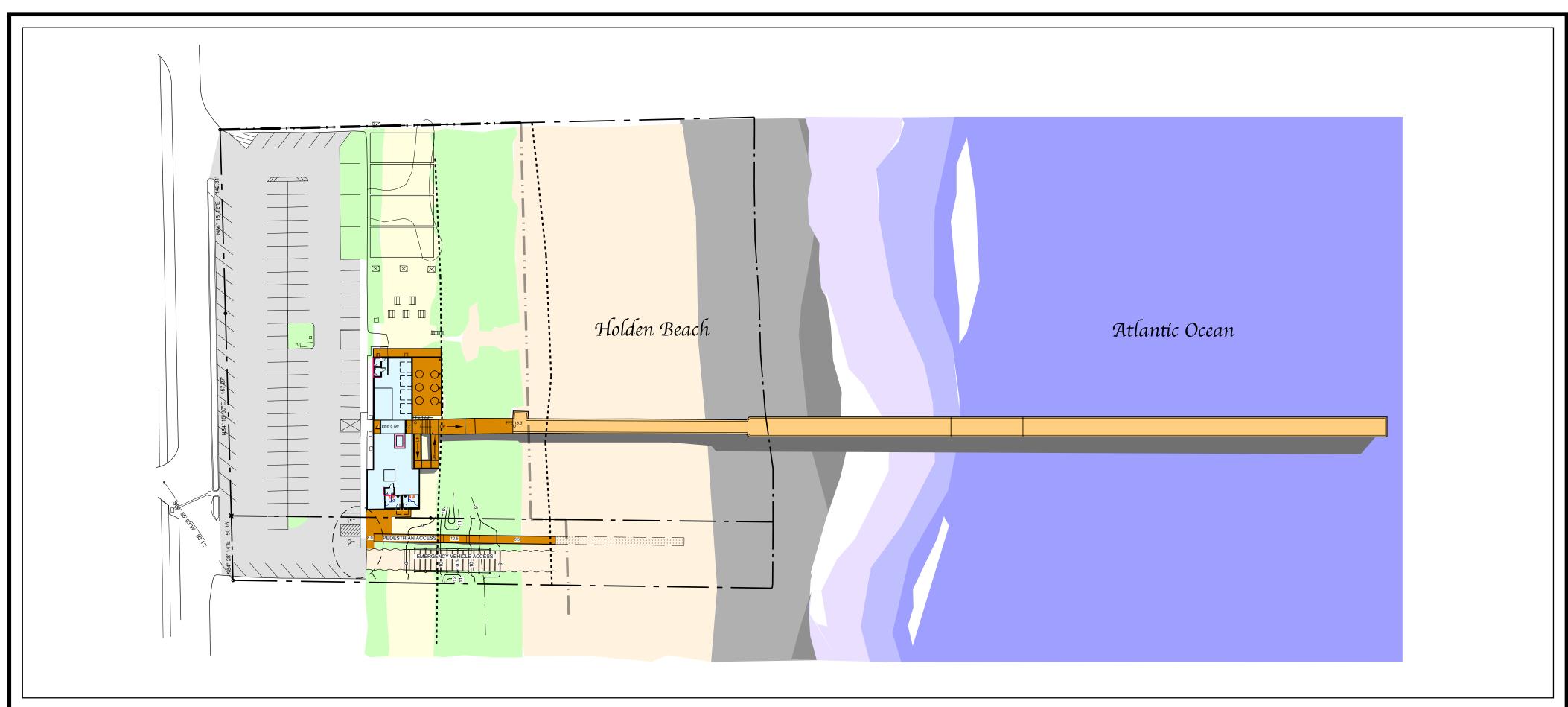
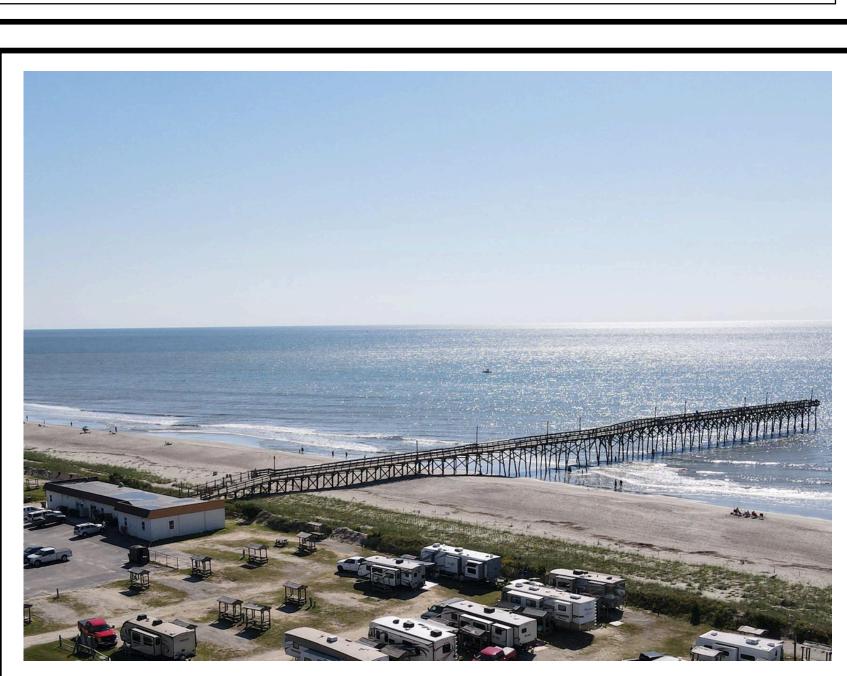
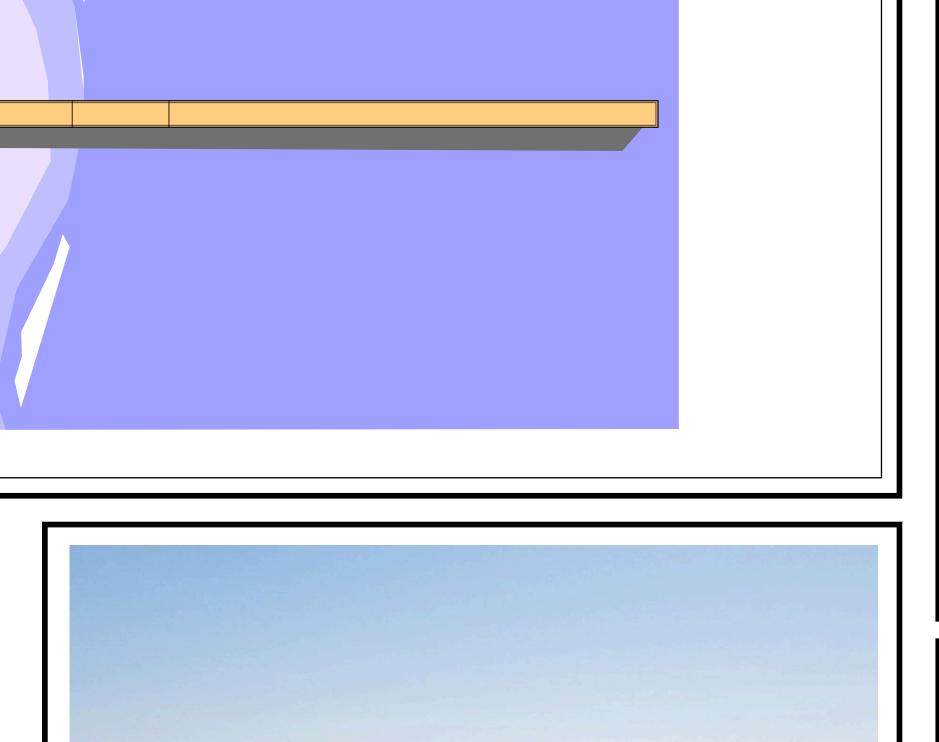
## The Town of Holden Beach

## Holden Beach Pier Renovation

441 Ocean Boulevard West Holden Beach, North Carolina 28462









ARCHITECTS

## Bowman Murray Hemingway Architects, PC

514 Market Street Wilmington, North Carolina 28401 Phone (910) 762-2621 www.bmharch.com

**Civil Engineering & Structural:** 

Andrew Consulting Engineers P.C. 3811 Peachtree Avenue, Suite 300 Wilmington, NC 28403 (910) 202-5555

Plumbing, Mechanical & Electrical:

CBHF Engineers, PLLC 2246 Yaupon Drive Wilmington, NC 28401 (910) 791-4000





ach Holden

**INDEX OF DRAWINGS** 

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M-x.x

E-x.x

**KEY MAP** 

**STRUCTURAL** 

Cover Sheet, Drawing Index

Building Data, Life Safety Plan

Conceptual Site Plan & Elevation

Existing / Demo Floor Plan

Existing / Demo Elevations

Conceptual Floor Plan

**Conceptual Elevations** 

**Existing Pier Elevations** 

**Existing Pier Section** 

Cover Sheet

**Building Plan** 

Structural Sections

Structural Details

Pier Layout

Overall Site Plan

**Existing Site Plan** 

(to be submitted w/ Schematic Design)

(to be submitted w/ Schematic Design)

MECHANICAL (to be submitted w/ Schematic Design)

ELECTRICAL (to be submitted w/ Schematic Design)

G1.0

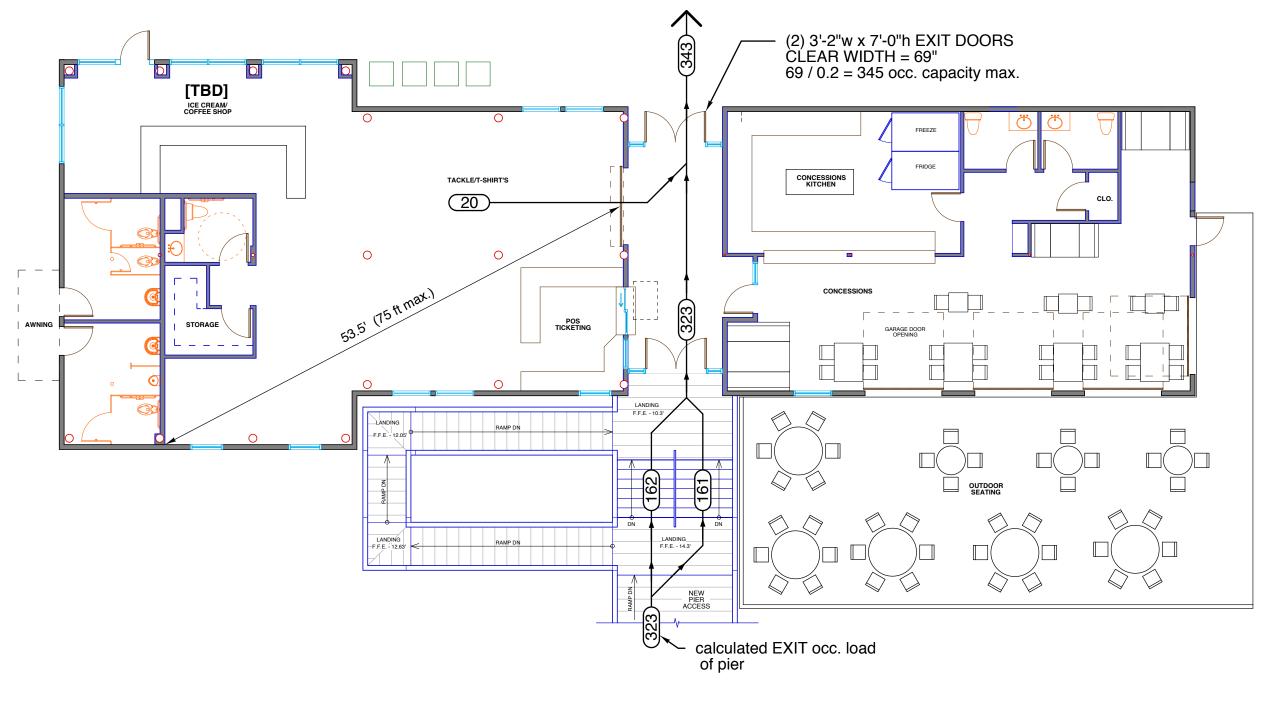
## 2018 APPENDIX B

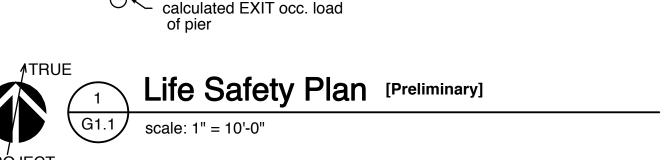
Audiess: 441 C		Pier Renovation	<u> </u>	-7·	n Codo Codo
Proposed Use:		Holden Beach, NC er with Tackle Shop,			·
_		er with rackie onop,			Jilis
Phone #:					
Owned By:		X City / County	Priv	ate	State
Code Enforcement	nt Jurisdiction:	City: Holden Be	ach Cou	inty:	State
LEAD DESIGN P	ROFESSIONAL:	Text			
DESIGNER	FIRM	NAME	LIC#	TEL#	E-MAIL
Architectural Civil		mingway George (Chip) H Engineers Neal W. Andrew			hemingway @ bmharch.c
Electrical	TBD	- Iteal W. Allianow			
Fire Alarm Plumbing	TBD				
Mechanical Sprinkler/Standpi	pe TBD	<del></del>		_	
Structural	Andrew Consulting E	Engineers Neal W. Andrew		910.202.5555	
Other					
CONSTRUCTED RENOVATED: RISK CATEGOR	Repair: Alteration Le Alteration Le (date) 1960 (PIE (date) 1980 (PIE	ATION OF WORK:  Damaged exterior fence Exterior walls New floor finite evel II: New restroom Reconfigure New concrete New Plumbin New windows New public research.  ER)  CURRIER HOUSE)  PROPORT	stration to be restration to be rest to received nested.  In service ADA complete interior spaces.  In service slab-on-gradering, Mechanical, is and doors.  In service servic	rty  METHOD (PII Decific location stored and pa w interior finis upliance and Electrica ach & Pier vis	ns ainted. sh & insulation.  I systems. sitors  Merchantile, A-
BASIC BUILDING Construction Type (check all that ap)	G DATA e: □I-A ply) □I-B	Proposed:			□V-A <b>∑</b> V-B
BASIC BUILDING Construction Type (check all that ap) Sprinklers: Standpipes: Fire District: Special Inspection	G DATA  e:	Proposed:   II-A  III-B  III-B		] III	V-B R □NFPA 13D
BASIC BUILDING Construction Type (check all that ap) Sprinklers: Standpipes: Fire District: Special Inspection	G DATA  e:	Proposed: III-A III-B II	IIII-A IIII-B INFPA 13 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		V-B SR NFPA 13D Vet Dry
BASIC BUILDING Construction Type (check all that ap) Sprinklers: Standpipes: Fire District: Special Inspection FLOOD DATA:  GROSS BUILDING	G DATA  e:	Proposed:   II-A  III-B  III-B	IIII-A IIII-B INFPA 13 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	III   IV	V-B R NFPA 13D Vet Dry Yes
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BASIC BUILDING Construction Type (check all that applications) Sprinklers: Standpipes: Fire District: Special Inspections FLOOD DATA:  GROSS BUILDING Floor First Floor  Total  OCCUPANCY Primary Occupant Assembly Mercantile	e:	Proposed:  III-A  III-B  IIIII-B  III-B  III-B  III-B  III-B  III-B  III-B  III-B  III-B  III	IIII-A IIII-B INFPA 13 IIII-B Azard Area: Yes  Sub Total (so	III IV  IV  NFPA 13  III W  No  Iff) Upfit (s	V-B R NFPA 13D Vet Dry Yes
BASIC BUILDING Construction Type (check all that ap) Sprinklers: Standpipes: Standpipes: Standpipes: Special Inspection FICOOD DATA:  GROSS BUILDING Floor First Floor Total  OCCUPANCY Primary Occupan Assembly Mercantile  Primary Occupan Mixed Occupancy  BUILDING HEIGH EXISTII	G DATA  e:	Proposed:    II-A	Sub Total (so    A-5   BLY   ation: _ 0	III	V-B R NFPA 13D Vet Dry Yes
BASIC BUILDING Construction Type (check all that ap) Sprinklers: Standpipes: Fire District: Special Inspection FLOOD DATA:  GROSS BUILDING Floor First Floor  Total  OCCUPANCY Primary Occupant Assembly Mercantile  Primary Occupant Mixed Occupancy  BUILDING HEIGH EXISTIIT TOP OF	G DATA  e:	Proposed:    II-A	Sub Total (so    A-5   BLY   ation: _ 0	III	V-B R NFPA 13D Vet Dry Yes
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Fire Alarms Smoke Detection Sys Carbon Monoxide De						
_	TBD] LIFE SAFETY PLAN REQUIREMENTS					
Life Safety Plan Shee	r smoke rated wall locations (Chapter 7)					
=	nd real property line locations (if not onthe site plan)					
	Il opening area with respect to distance to assumed property lines (705.8)  Use for each area as it relates to occupant load calculation (Table 1004.1.2)					
Occupant lo	pads for each area					
=	pads for each area travel distances (1017)					
	ath of travel distances (Tables 1006.2.1 & 1006.3.2(1))					
_	engths (1020.4) ridths for each exit door					
Maximum c egress widt	alculated occupant load capacity each exit door can accommodate based on h (1005.3)					
_	pant load for each exit door schematic plan indicating where fire rated floor/ceiling and/or roof structure is					
provided for	r purposes of occupancy separation  doors with panic hardware (1010.1.10)					
_	doors with panic nardware (1010.1.10) doors with delayed egress locks and the amount of delay (1010.1.9.7)					
_	doors with electromagnetic egress locks (1010.1.9.9) doors equipped with hold-open devices					
_	emergency escape windows (1030)					
	footage of each fire area (202) footage of each smoke compartment for Occupancy Classification I-2 (407.5)					
	ode exceptions or table notes that may have been utilized regarding the items above					
	DI LIMPINIO EIVTLIDEO					
CONCESSIONS:	PLUMBING FIXTURES  1.976 SF seating area = 1.976 / 15 = 132 (66 male, 66 female)					
CONCLUCIONO.	ESSIONS: 1,976 SF seating area = 1,976 / 15 = 132 (66 male, 66 female) Required: [A-2] (1) WC per 75, (1) LAV per 75 each sex. Provided: (2) Single use toilets with (1) WC & (1) LAV each. Maximum supported occupants = 150					
TACKLE SHOP:	1,160 SF space = 1,160 / 60 = 20 occupants Required: [M] (1) WC per 500, (1) LAV per 750 Provided: (1) Single use toilet with (1) WC & (1) LAV Maximum supported occupants = 100 D.F. not required when under 100 occupants.					
RETAIL [TBD]:	400 SF space = 400 / 100 = 4 (2 male, 2 female)  Required: (TBD) (1) WC per 25 (1) LAV per 40					
	Required: [TBD] (1) WC per 25, (1) LAV per 40 Provided: (1) Single use toilet with (1) WC & (1) LAV (shared with Tackle Shop) Maximum supported occupants = 25 (for single unisex restroom) D.F.: To be determined depending on occupancy. (Calculation for Business shown for reference.)					
PUBLIC RRs:	Provided: (2) Mulit-Use restroom with (2) WC & (1) LAV each. Assuming use similar to [A-5] with (1) WC per 100 the supported occupancy load is (4) WC x 100 = 400 people.					
	SPECIAL APPROVALS					
Special approval: (Lo	ocal Jurisdiction, Department of Insurance, SBCCL ICC, etc., describe below.)					
Special approval: (Lo	ocal Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below.)					
	ocal Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below.)					
	[TBD] ENERGY SUMMARY					
Local Jurisdiction						
Local Jurisdiction  Existing building enverogement Building:  Climate Zone	[TBD] ENERGY SUMMARY  elope complies with code:					
Local Jurisdiction  Existing building enveronment Building:	[TBD] ENERGY SUMMARY  elope complies with code:					
Local Jurisdiction  Existing building enverogement Building:  Climate Zone	[TBD] ENERGY SUMMARY     elope complies with code: No  Yes (The remainder of this section is not applicable)   No  Yes (Provide code or statutory reference):   a					
Local Jurisdiction  Existing building enverogement Building:  Climate Zone	[TBD] ENERGY SUMMARY  elope complies with code: No Yes (The remainder of this section is not applicable)  No Yes (Provide code or statutory reference):  a					
Existing building envelopments Exempt Building: Climate Zone Method of Co	[TBD] ENERGY SUMMARY  elope complies with code: No Yes (The remainder of this section is not applicable)  No Yes (Provide code or statutory reference):  ASHRAE 90.1 Performance Prescriptive  ASHRAE 90.1 Performance Prescriptive  (If "Other" specify source here)  PE (Prescriptive method only)  Assembly (each assembly)					
Existing building envelopment Building: Climate Zone Method of Co	[TBD] ENERGY SUMMARY  elope complies with code: No Yes Section is not applicable)  No Yes (Provide code or statutory reference):  ENERGY SUMMARY  Person is not applicable)  Person is not applicable)					
Existing building envelopment Building: Climate Zone Method of Co	[TBD] ENERGY SUMMARY  elope complies with code:					
Existing building envelopment Building: Climate Zone Method of Co	[TBD] ENERGY SUMMARY  elope complies with code: No Yes (The remainder of this section is not applicable)  No Yes (Provide code or statutory reference):  ASA A A 5A  compliance: Energy Code Performance Prescriptive  ASHRAE 90.1 Performance Prescriptive  (If "Other" specify source here).  PE (Prescriptive method only)  Assembly (each assembly)  Description of assembly  U-Value of total assembly  R-Value of insulation  Skylights in each assembly					
Existing building envelopment Building: Climate Zone Method of Co	[TBD] ENERGY SUMMARY  elope complies with code: No Yes Section is not applicable)  No Yes (Provide code or statutory reference):  ASHRAE 90.1 Performance Prescriptive  ASHRAE 90.1 Performance Prescriptive  (If "Other" specify source here).  PE (Prescriptive method only)  Assembly (each assembly)  Description of assembly  U-Value of total assembly  Skylights in each assembly)  Description of assembly  Skylights in each assembly)  Description of assembly  Skylights in each assembly  Description of assembly					
Existing building envelopment Building: Climate Zone Method of Co	[TBD] ENERGY SUMMARY  elope complies with code: No Yes (The remainder of this section is not applicable) No Yes (Provide code or statutory reference):    No Yes (Provide code or statutory reference):					
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Existing building envelopment Building: Climate Zone Method of Co	[TBD] ENERGY SUMMARY  elope complies with code: No Yes (The remainder of this section is not applicable) No Yes (Provide code or statutory reference):    No Yes (Provide code or statutory reference):					

U-Value of total assembly R-Value of insulation

	STRUC	CTURAL I	DESIGN		
DESIGN LOADS:		[יטט]			
Importance Factors:	Snow $(I_s)$ Seismic $(I_E)$			_	
Live Loads:	Roof Mezzanine Floor			psf psf psf	
Ground Snow Loads:				_ psf	
Wind Loads:	Ultimate Wir Exposure Ca			mph	(ASCE-7)
SEISMIC DESIGN CATEGORY:		ПА	□в	С	□D
Provide the following Seismic De	sign Paramet	ters:			
Risk Category (Table 1604	.5)				□IV
Spectral Response Acceler	ation	ss	%g	SI	%g
Site Classification (ASCE 7	)	ΠA	□в	С	□D □E □F
Dat	a Source:	Field	Test	Pres	sumptive Historical Data
Basic Structural System		Build	ing Wall ling Frame nent Frame	Dua	al w/Special Moment Frame al w/Intermediate R/C or Special S erted Pendulum
Analysis Procedure		Simp	olified	Equ	ivalent Lateral Force Dynami
Architectural, Mechanical, (	Components a	anchored?	?	Yes	s No
LATERAL DESIGN CONTROL:	Earthquak	e□	Win	d□	
SOIL BEARING CAPACITIES:	•			_	
Field Test (provide copy of Presumptive Bearing capacity Pile size, type, and capacity	city			psf psf	
Т	BD] MECH	IANICAL S	SUMMAR	Y	











Holden Beach, North Carolina 28462

Building Data Life Safety Plan

JOB NUMBER

DRAWN BY

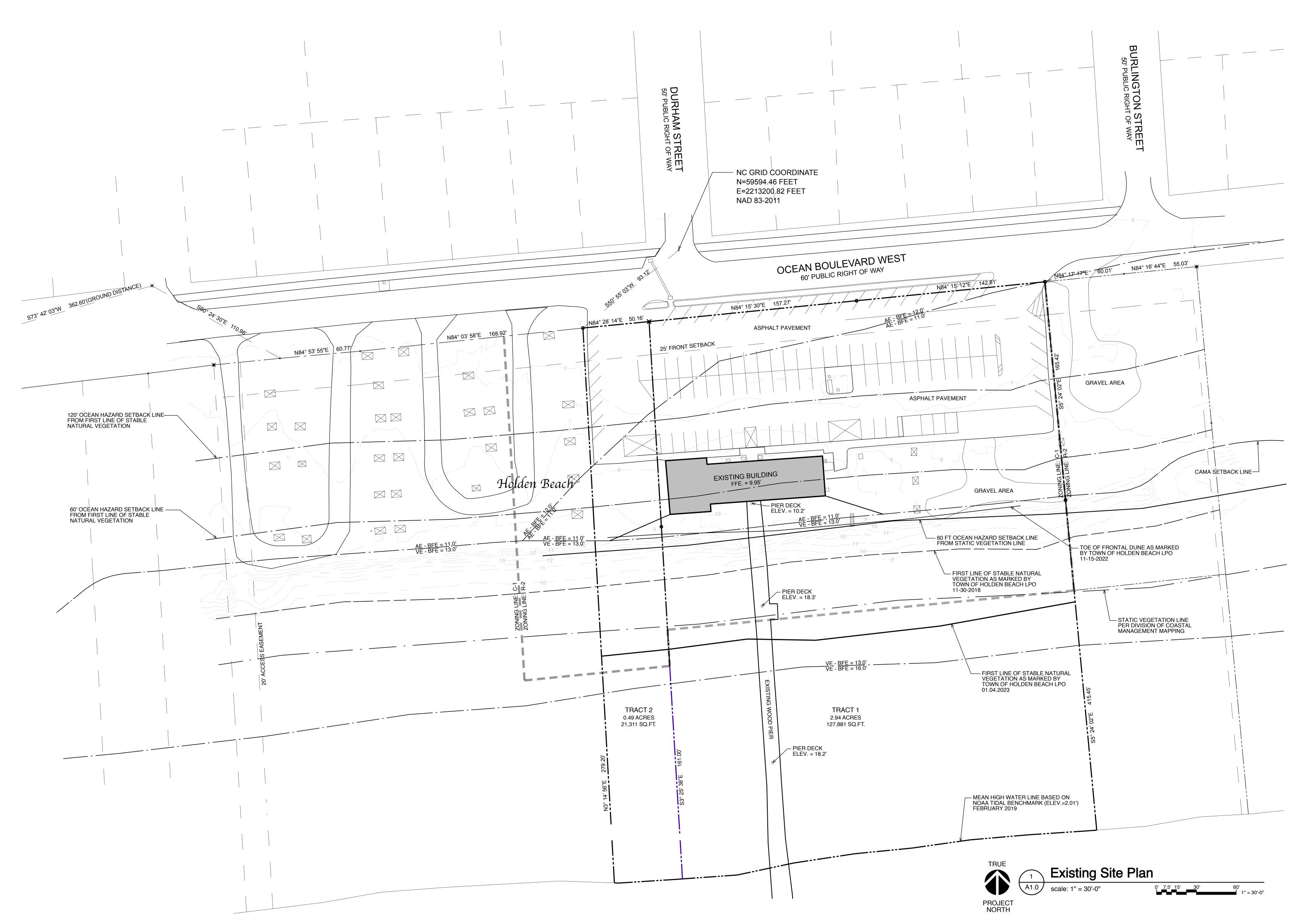
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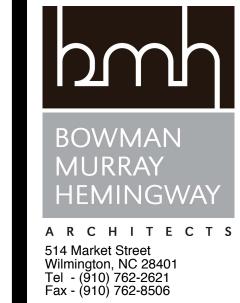
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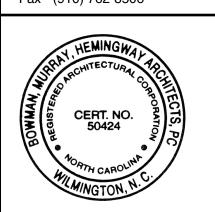
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DATE 12/8/22 REVISIONS

SHEET NUMBER







Existing Site Plan

JOB NUMBER

DRAWN BY

MG

CHECKED BY

GCH

DATE

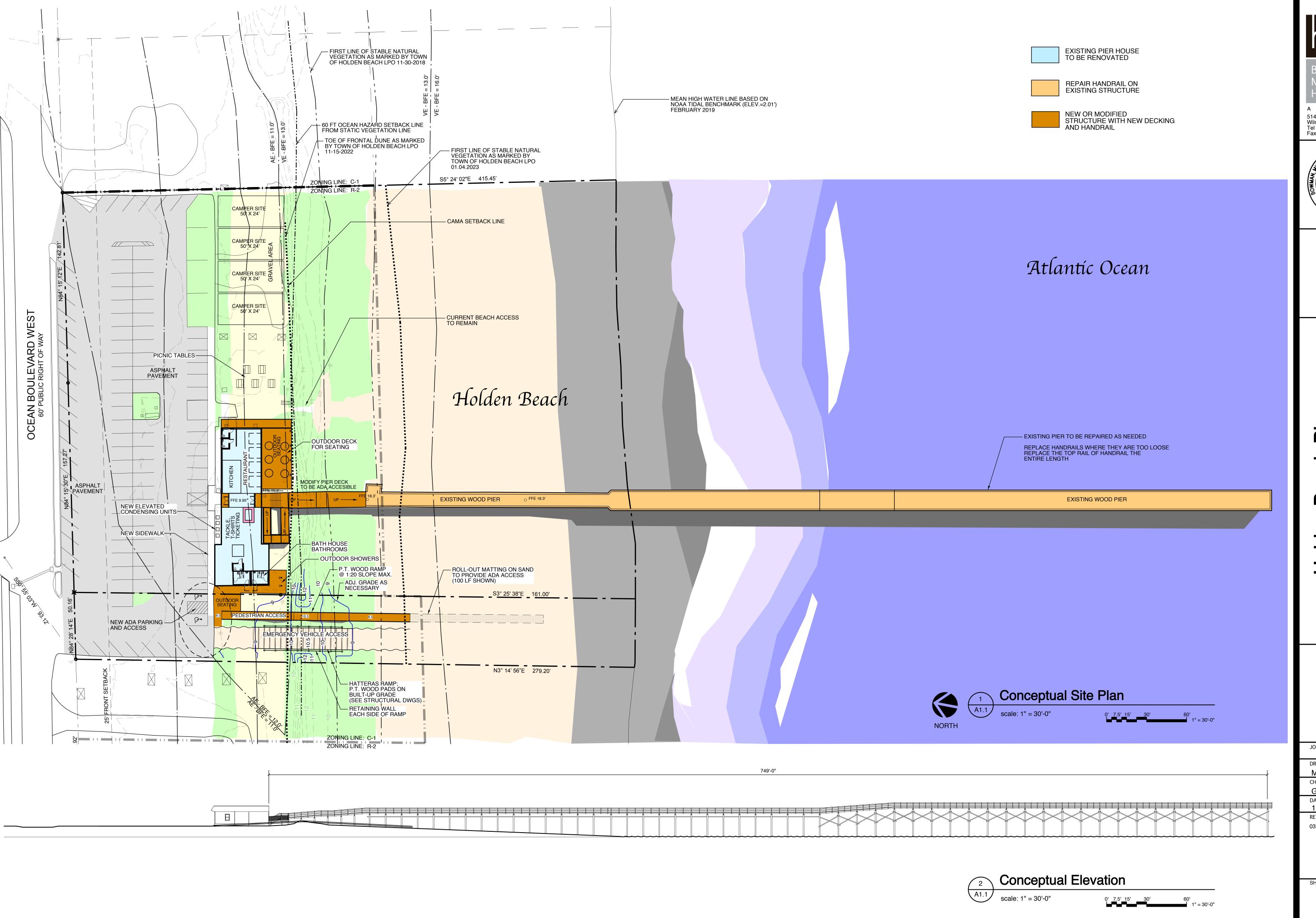
DATE
12/8/22

REVISIONS

03.31.23 ADD UPDATED SURVEY INFO.

SHEET NUMBER

A1.0







441 Ocean Boulevard West Holden Beach, North Carolina 28462 ach Be Holden

JOB NUMBER DRAWN BY

MG

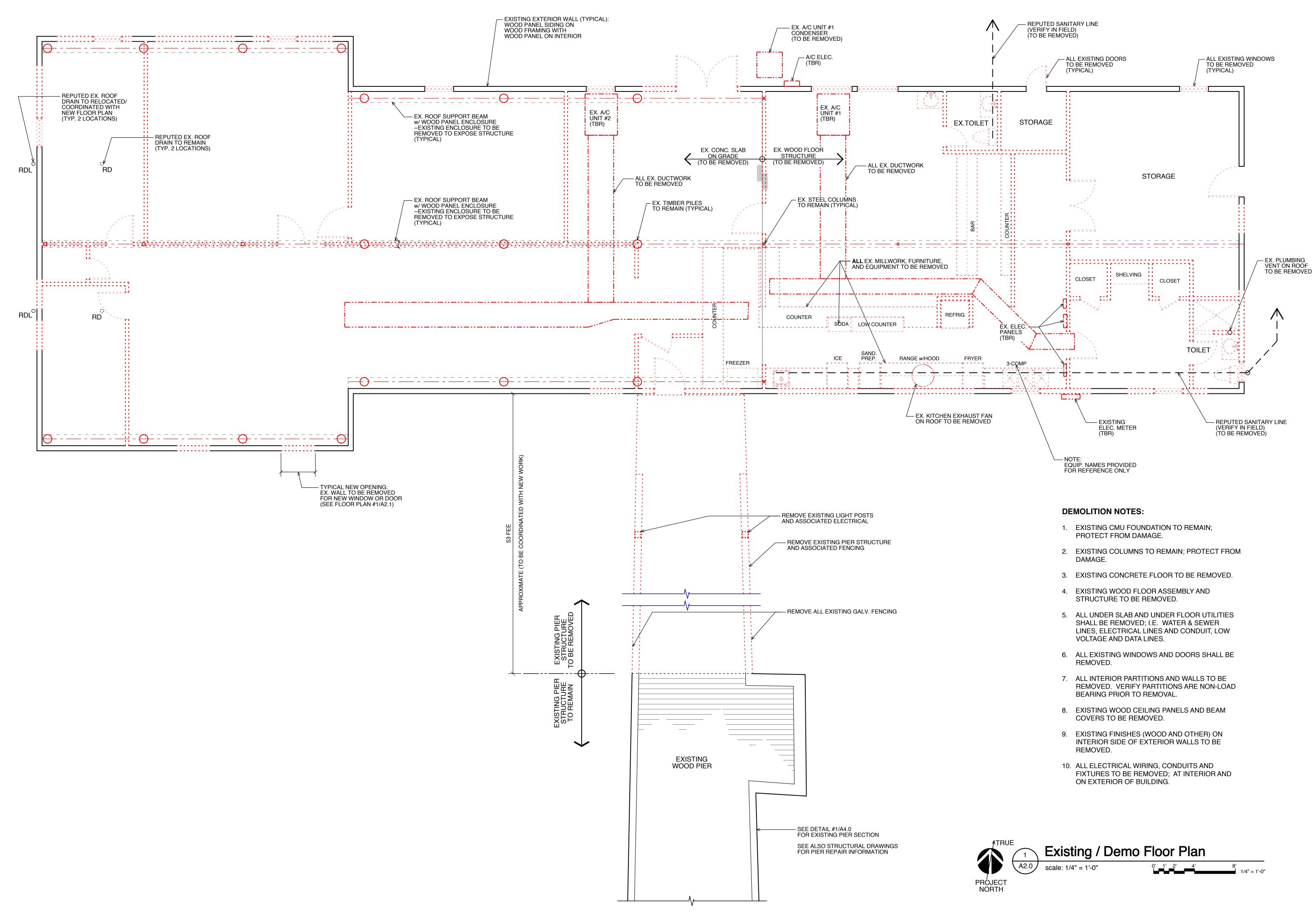
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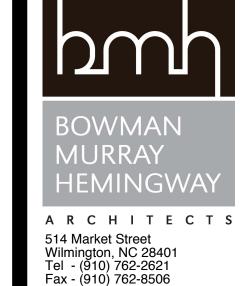
12/8/22 REVISIONS

03.31.23 ADD UPDATED SURVEY INFO.

SHEET NUMBER

A1.1







Existing / Dem Floor Plan

JOB NUMBER

DRAWN BY

MG

CHECKED BY

GCH

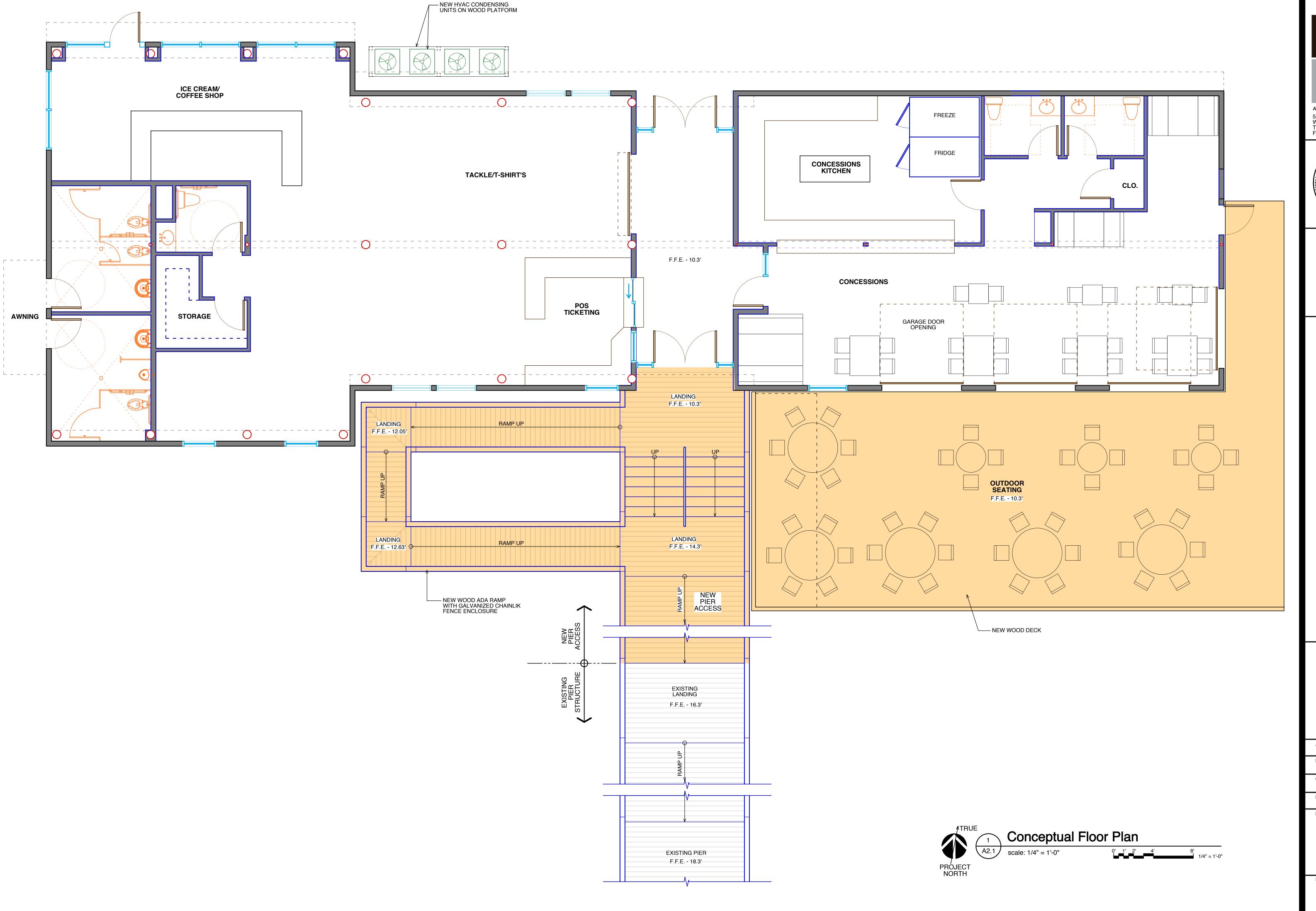
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12/8/22

SHEET NUMBER

**REVISIONS** 

A2.0







Conceptual Floor Plan

JOB NUMBER

DRAWN BY

MG

CHECKED BY

GCH

DATE

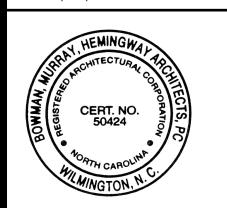
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REVISIONS

SHEET NUMBER

A2.1





**er** /est a 28462

Holden Beach Pier

441 Ocean Boulevard West
Holden Beach, North Carolina 28462

Existing / Demo Elevations

JOB NUMBER

DRAWN BY

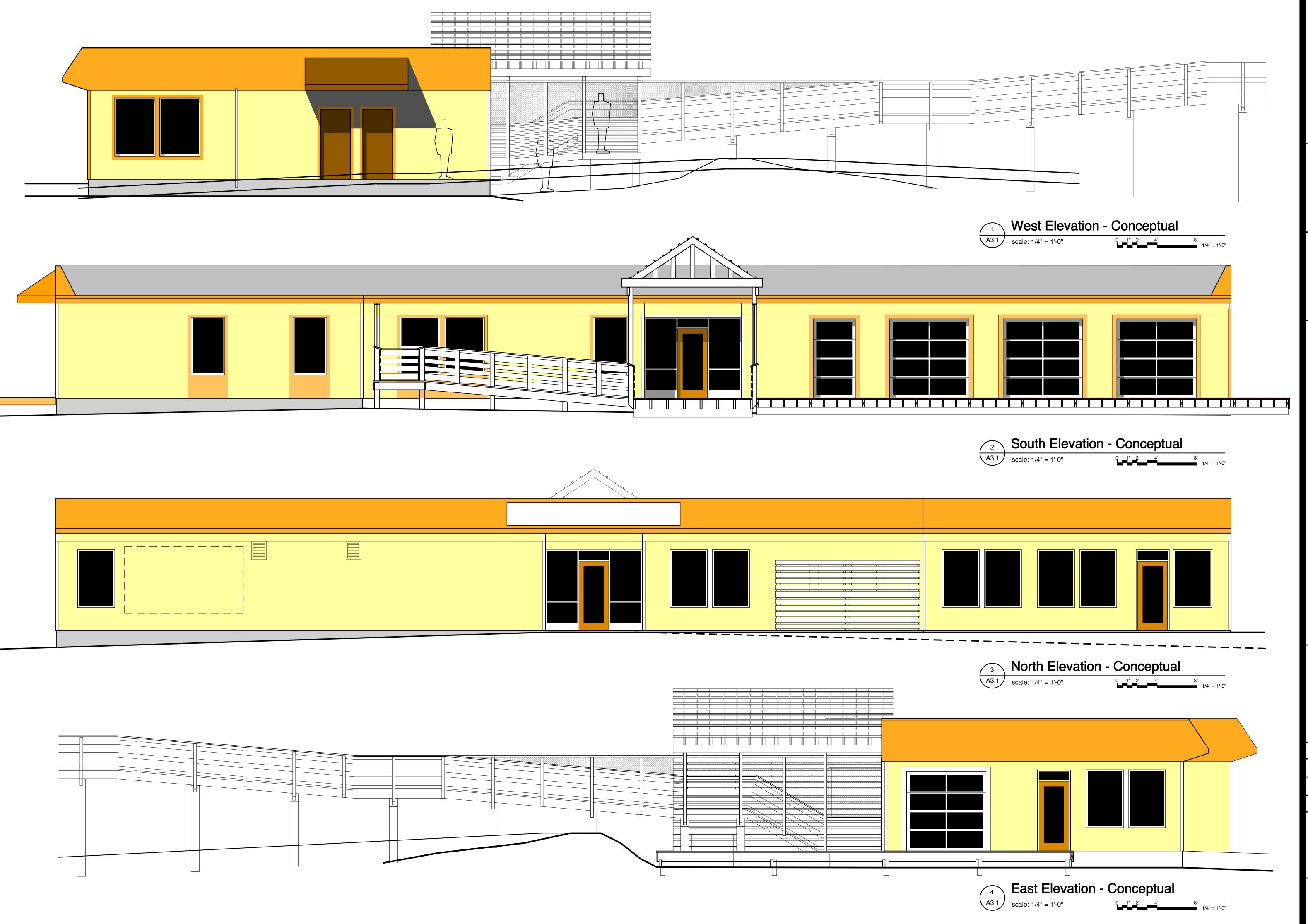
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DATE

12/8/22 REVISIONS

SHEET NUMBER

A3.0







441 Ocean Boulevard West Holden Beach, North Carolina 28462 Beach Pier **Holden** I

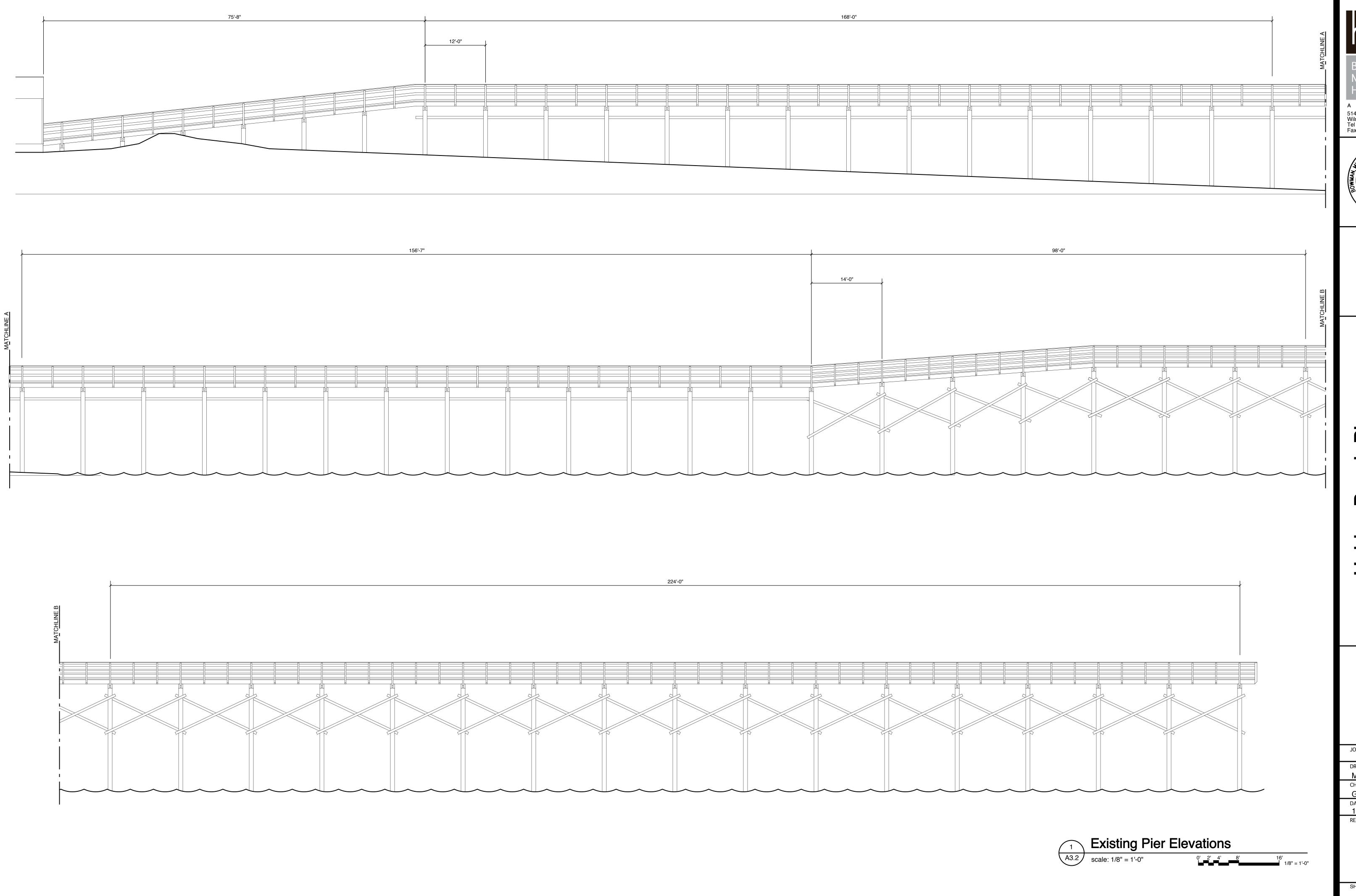
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12/8/22

SHEET NUMBER

A3.1



BOWMAN
MURRAY
HEMINGWAY

A R C H I T E C T S
514 Market Street
Wilmington, NC 28401
Tel - (910) 762-2621
Fax - (910) 762-8506



Holden Beach Pier

441 Ocean Boulevard West
Holden Beach, North Carolina 28462

Existing ier Elevations

JOB NUMBER

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MG

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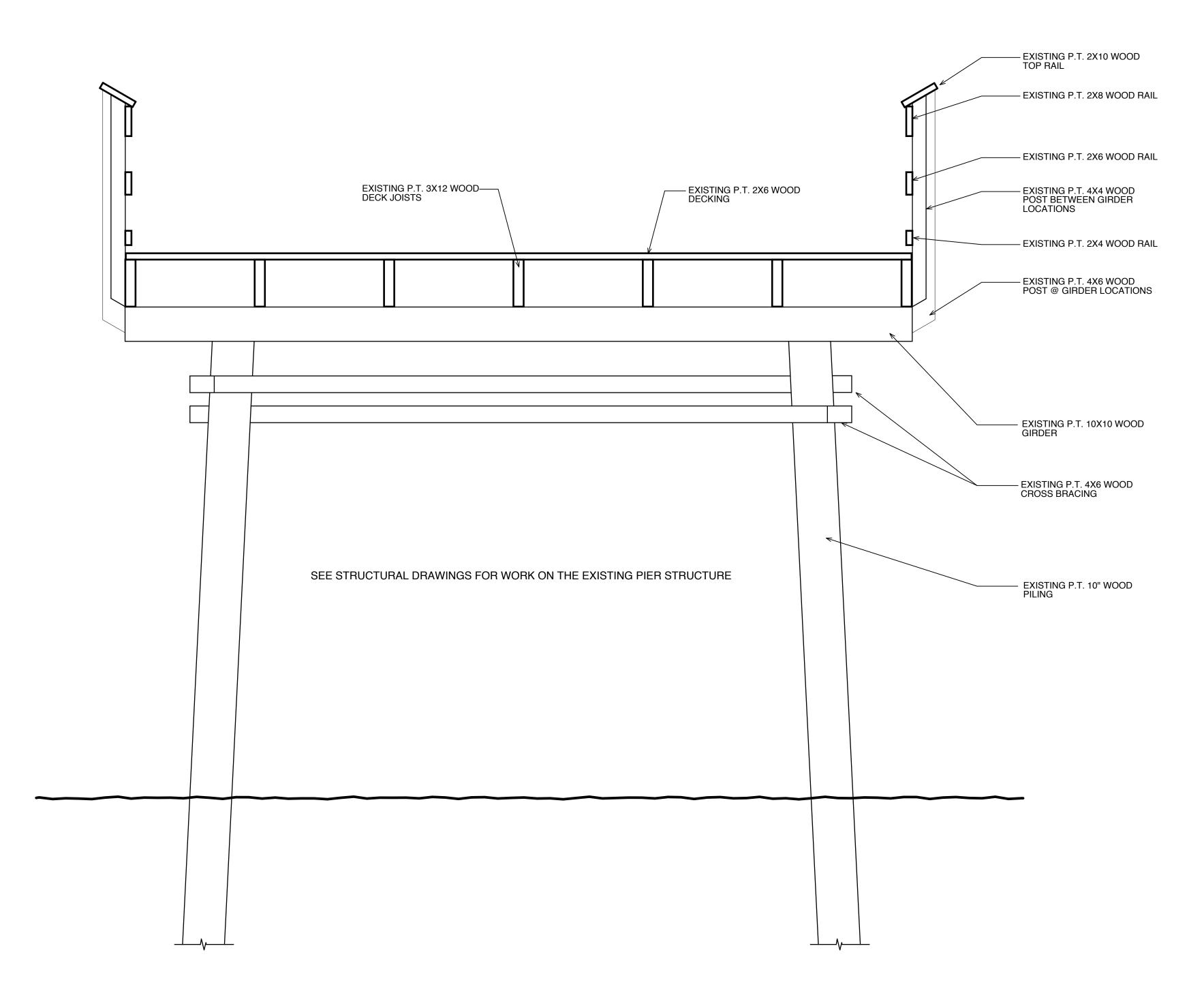
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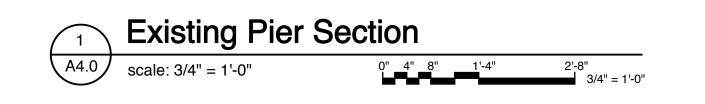
12/8/22

REVISIONS

SHEET NUMBER

A3.2









Existing Pier Section

JOB NUMBER

DRAWN BY

MG

CHECKED BY

GCH

DATE

12/8/22

REVISIONS

SHEET NUMBE

A4.0