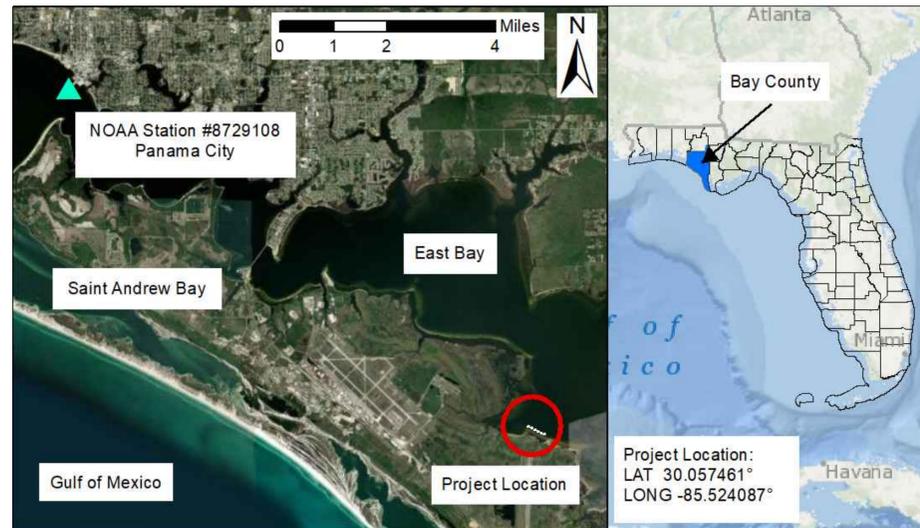


TYNDALL PILOT PROJECT OYSTER REEF BREAKWATER BAY COUNTY, FLORIDA

PREPARED FOR

THE NATURE CONSERVANCY



PROJECT VICINITY MAP
NTS



PROJECT LOCATION MAP
NTS

DRAWINGS

**PRELIMINARY FOR
REVIEW ONLY**

THESE DOCUMENTS ARE NOT INTENDED FOR
PERMITTING, BIDDING, OR CONSTRUCTION.
PREPARED BY OR UNDER SUPERVISION OF:

JOEL A. TILLERY
NAME

98382
REGISTRATION # DATE

Jacobs Engineering Group Inc
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Pensacola, FL 32502
United States

Project Contact:
David Bell
Jacobs Engineering Group
10th Street NE
Suite 1400 Atlanta, GA 30309
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Jacobs Project No. D3586500

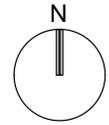
NOVEMBER 2024



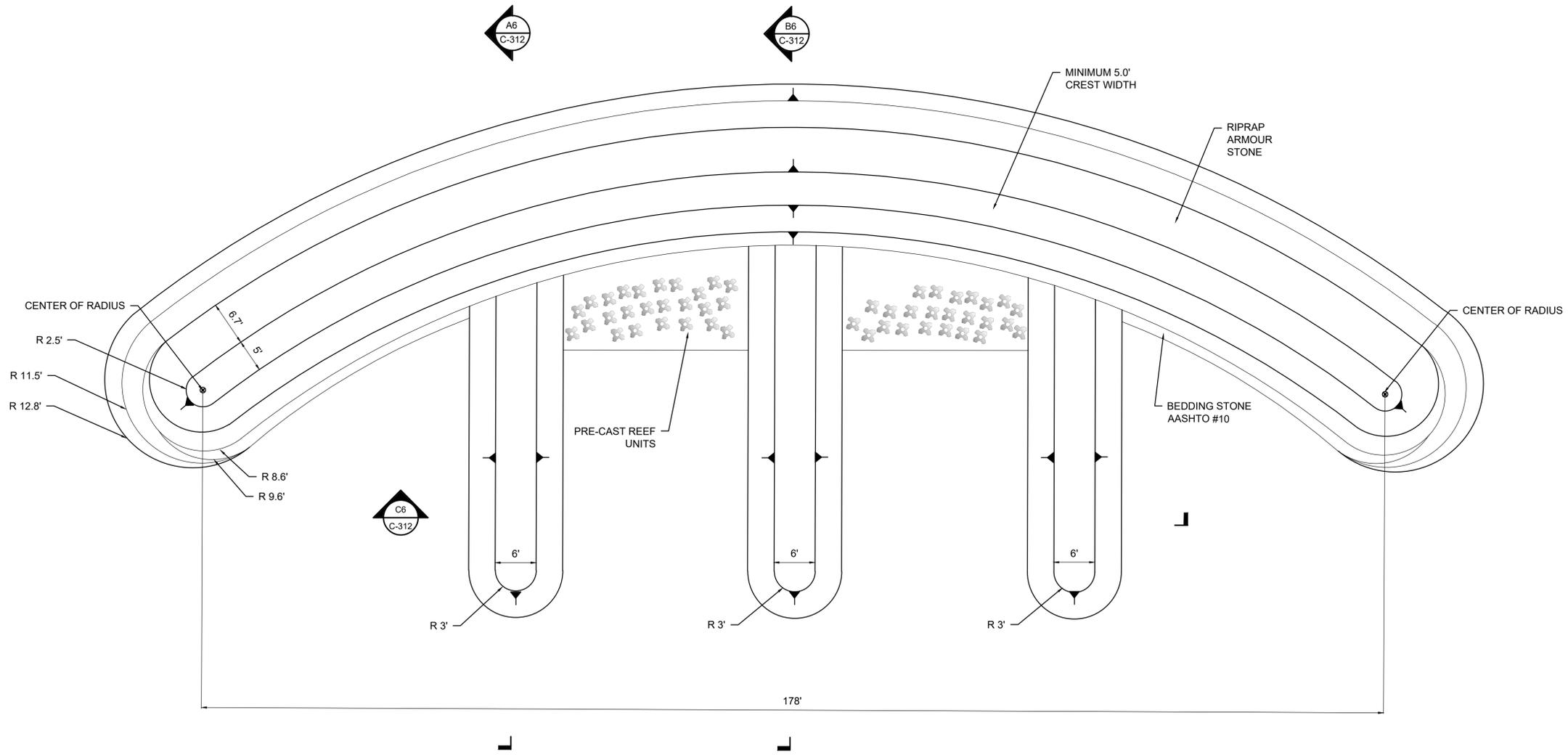
PRELIMINARY
NOT FOR
CONSTRUCTION

NOTES:

- 1. MINIMUM REEF CREST WIDTH OF 5 FEET.
- 2. SEE DRAWING C-312 FOR CROSS-SECTIONS.
- 3. REEF FOOTPRINT DIMENSIONS SHOWN ARE APPROXIMATE AND WILL DEPEND ON BATHYMETRY ON SITE DURING CONSTRUCTION.
- 4. RADIUS INTENDED TO AID IN SETTING THE OF REEF.
- 5. GEOMETRIES AND MATERIALS TO BE CONFIRMED IN THE FINAL DESIGN.
- 6. PRE-CAST REEF UNITS SHOWN ARE CONCEPTUAL AND TO BE CONFIRMED IN THE FINAL DESIGN.



REEF STRUCTURES - PLAN VIEW REEF 6
 SCALE: 1" = 10'



NO.	DATE	DR	CHK	APVD	BY	APVD
		L. BAKER	C. MAGUIRE	L. BASSETTI	J. TILLERY	

25 WEST CEDAR STREET, SUITE 350
 PENSACOLA, FL 32502



JACOBS

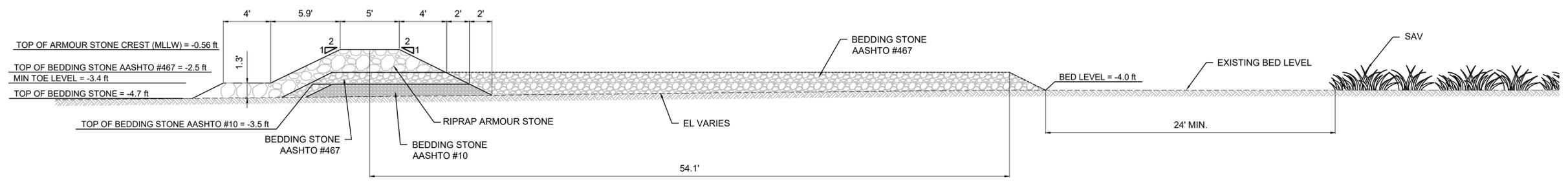
GENERAL
**REEF STRUCTURE
 PLAN VIEW REEF 6**

NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	NOVEMBER 2024
PROJ	D3586500
DWG	C-306
SHEET	14 of 22

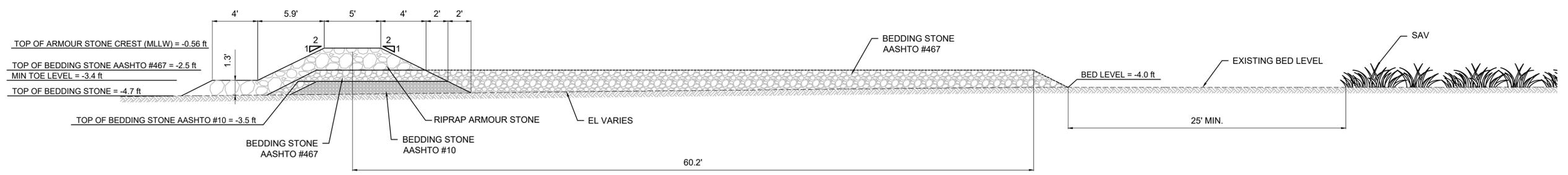
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90% DESIGN DOCUMENTS

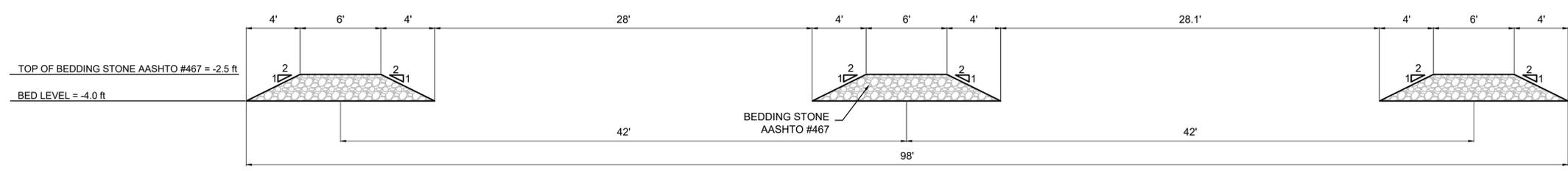
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 - GROUND SURFACE FOR EACH REEF DETAIL IS DEPICTED AS UNIFORM FOR CLARITY AND MAY NOT REPRESENT ACTUAL CONDITIONS AT EACH REEF LOCATION. CONTRACTOR SHALL FIELD VERIFY GROUND SURFACE CONDITIONS AT EACH REEF LOCATION AND RECOMMEND ADJUSTMENTS TO EACH REEF'S BASE FOR THE ENGINEER'S APPROVAL, PRIOR TO CONSTRUCTION.
 - REEF FOOTPRINT DIMENSIONS SHOWN ARE APPROXIMATE AND WILL DEPEND ON BATHYMETRY ON SITE DURING CONSTRUCTION.



A2 SECTION
C-201 SCALE: 1" = 5'



B2 SECTION
C-201 SCALE: 1" = 5'



C2 SECTION
C-201 SCALE: 1" = 5'

NO.	DATE	DR	CHK	APVD	BY	APVD
		L. BAKER	C. MAGUIRE	L. BASSETTI	J. TILLERY	

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

The Nature Conservancy
OYSTER REEF BREAKWATER
THE NATURE CONSERVANCY
TYNDALL AIR FORCE BASE, FL

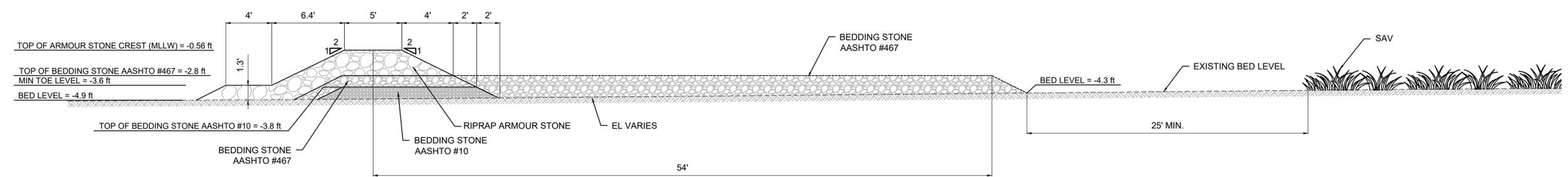
JACOBS
GENERAL
REEF STRUCTURE CROSS SECTION REEF 2

NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2024
PROJ	D3586500
DWG	C-308
SHEET	16 of 22

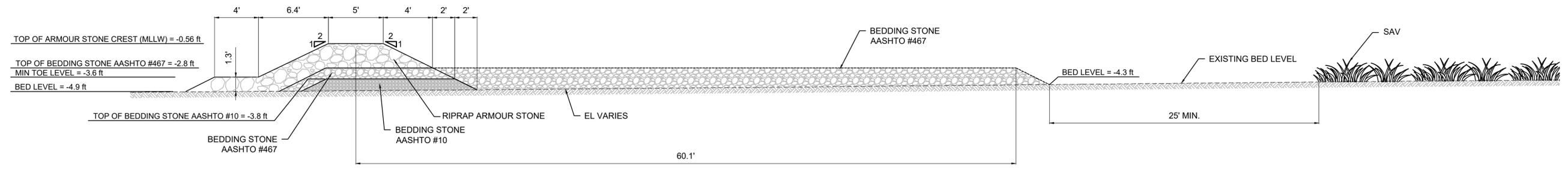
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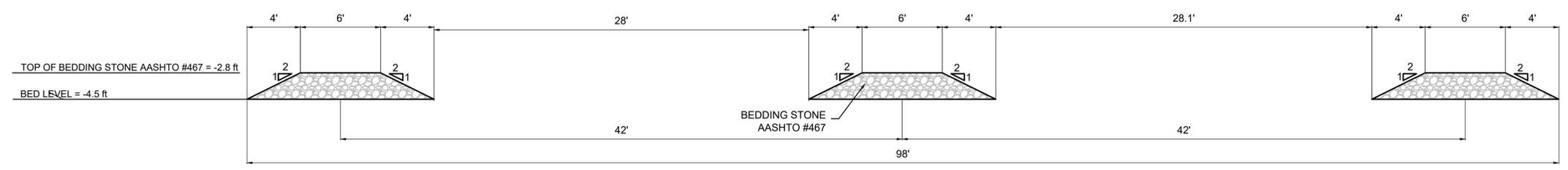
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 - REEF FOOTPRINT DIMENSIONS SHOWN ARE APPROXIMATE AND WILL DEPEND ON BATHYMETRY ON SITE DURING CONSTRUCTION.



A3 SECTION
C-202 SCALE: 1" = 5'



B3 SECTION
C-202 SCALE: 1" = 5'



C3 SECTION
C-202 SCALE: 1" = 5'

NO.	DATE	DR	CHK	APVD
		L. BAKER	C. MAGUIRE	J. TILLERY

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

The Nature Conservancy
OYSTER REEF BREAKWATER
THE NATURE CONSERVANCY
TYNDALL AIR FORCE BASE, FL

JACOBS
GENERAL
**REEF STRUCTURE
CROSS SECTION REEF 3**

NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2024
PROJ	D3586500
DWG	C-309
SHEET	17 of 22

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NOTES:

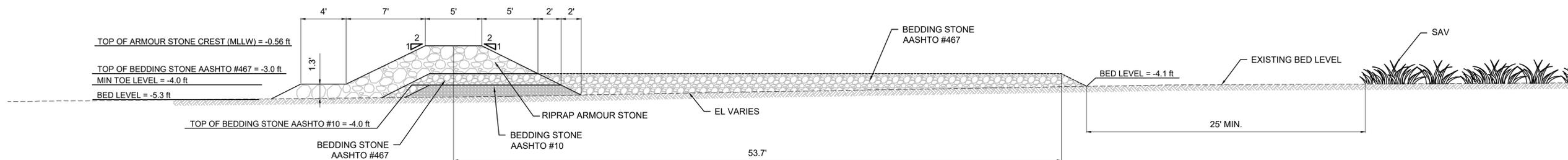
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A

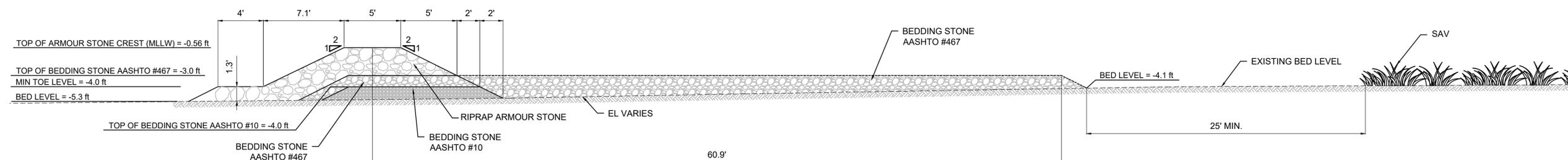
B

C

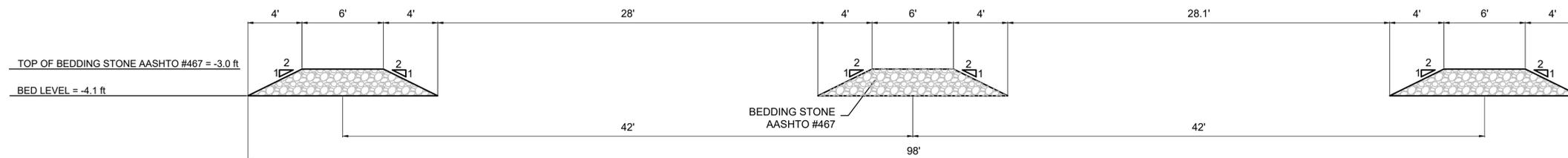
D



A4 SECTION
C-202 SCALE: 1" = 5'



B4 SECTION
C-202 SCALE: 1" = 5'



C4 SECTION
C-202 SCALE: 1" = 5'

NO.	DATE	DR	CHK	BY
		L. BAKER	C. MAGUIRE	J. TILLERY
DSGN		APVD		
REVISION		APVD		

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502



OYSTER REEF BREAKWATER
THE NATURE CONSERVANCY
TYNDALL AIR FORCE BASE, FL

JACOBS
GENERAL

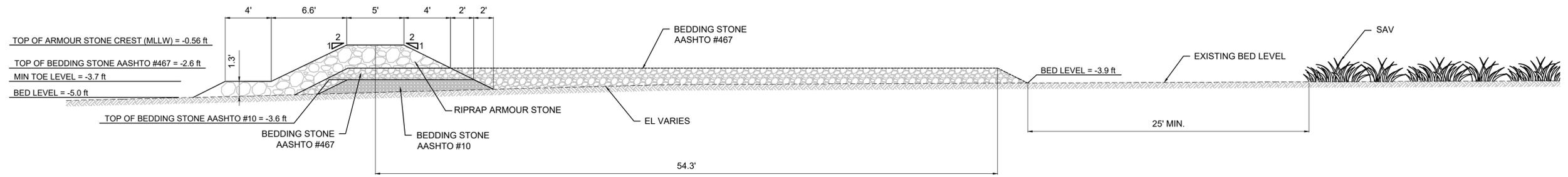
REEF STRUCTURE
CROSS SECTION REEF 4

NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2024
PROJ	D3586500
DWG	C-310
SHEET	18 of 22

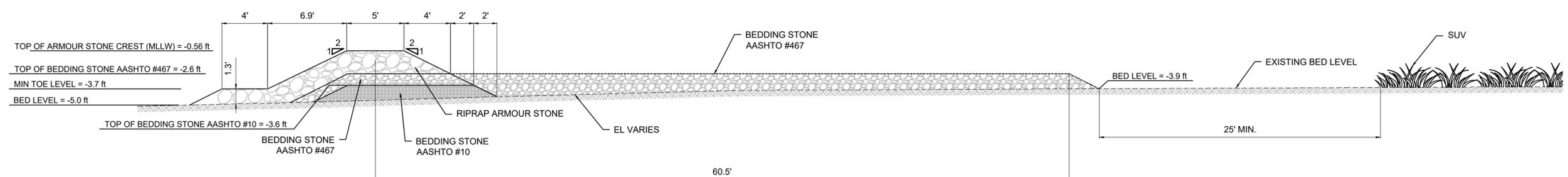
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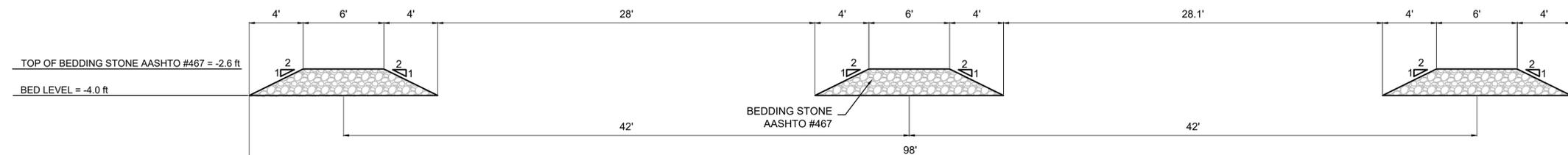
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A5 SECTION
C-203 SCALE: 1" = 5'



B5 SECTION
C-203 SCALE: 1" = 5'



C5 SECTION
C-203 SCALE: 1" = 5'

NO.	DATE	DR	CHK	BY
		L. BAKER	C. MAGUIRE	J. TILLERY
DSGN			APVD	
			APVD	

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

The Nature Conservancy
OYSTER REEF BREAKWATER
THE NATURE CONSERVANCY
TYNDALL AIR FORCE BASE, FL

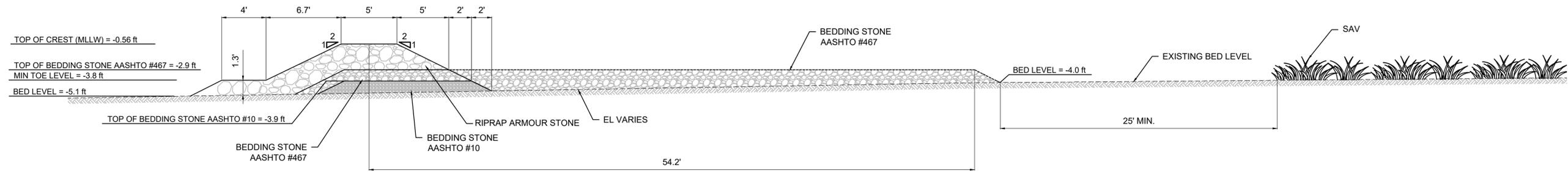
JACOBS
GENERAL
REEF STRUCTURE CROSS SECTION REEF 5

NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2024
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DWG	C-311
SHEET	19 of 22

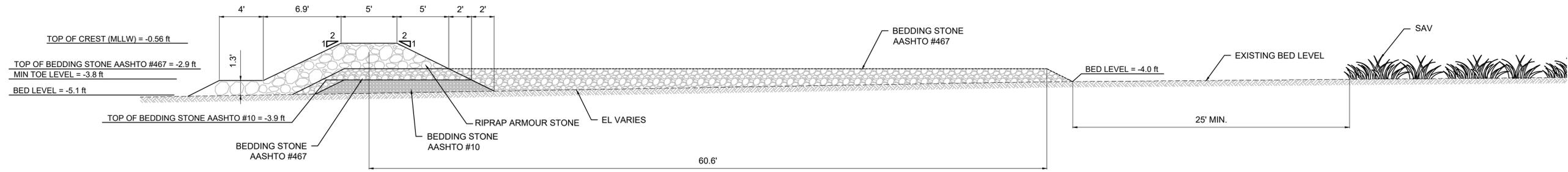
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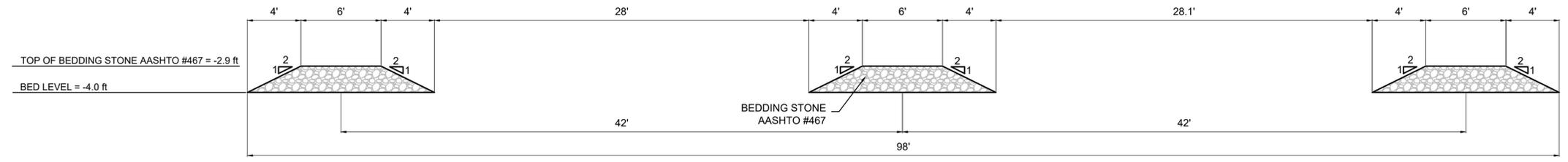
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A6 SECTION
C-203 SCALE: 1" = 5'



B6 SECTION
C-203 SCALE: 1" = 5'



C6 SECTION
C-203 SCALE: 1" = 5'

NO.	DATE	DR	CHK	APVD
		L. BAKER	C. MAGUIRE	J. TILLERY
DSGN				

25 WEST CEDAR STREET, SUITE 350
PENSACOLA, FL 32502

The Nature Conservancy
OYSTER REEF BREAKWATER
THE NATURE CONSERVANCY
TYNDALL AIR FORCE BASE, FL

JACOBS
GENERAL
**REEF STRUCTURE
CROSS SECTION REEF 6**

NTS	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
DATE	MAY 2024
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DWG	C-312
SHEET	20 of 22

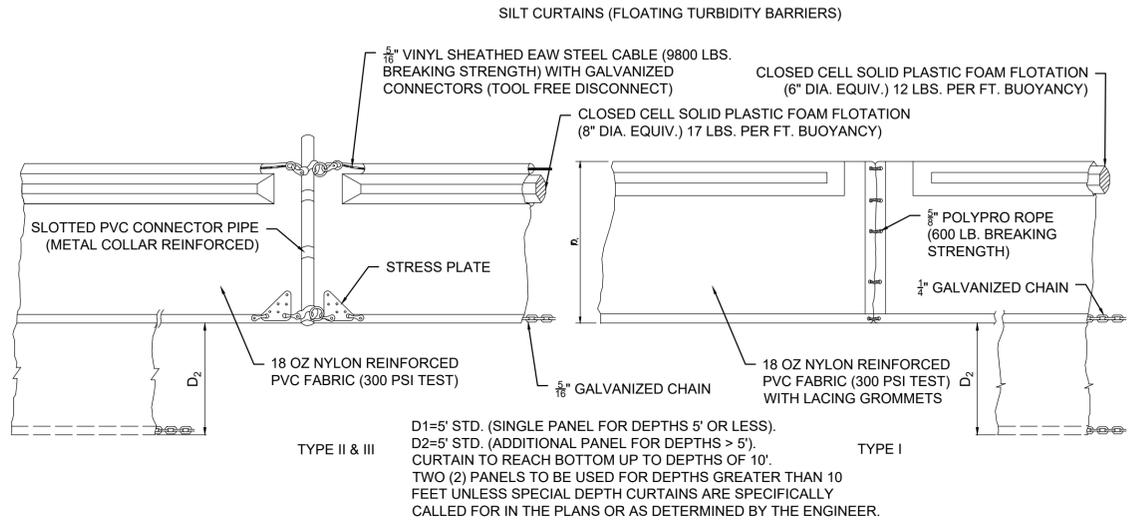
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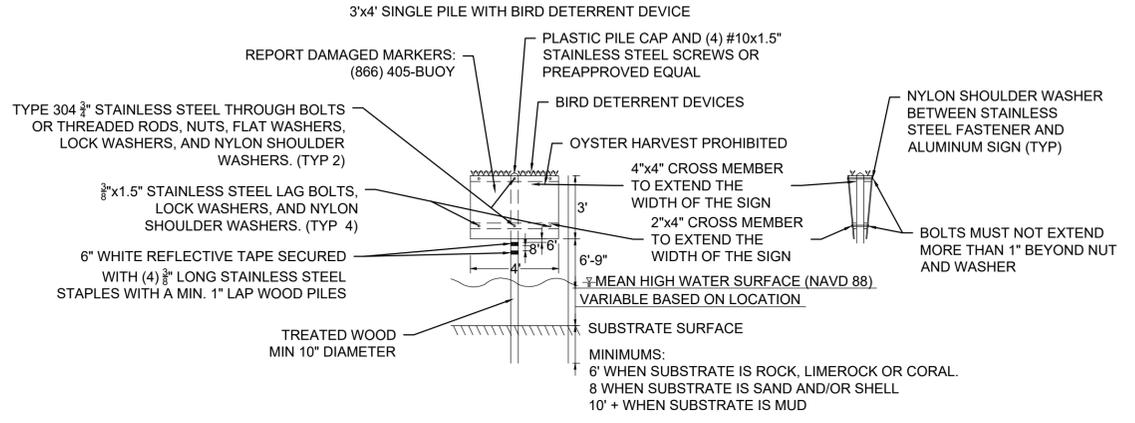
TYPICAL DETAILS - NAVIGATION MARKER AND TURBIDITY BARRIER

SCALE: NTS

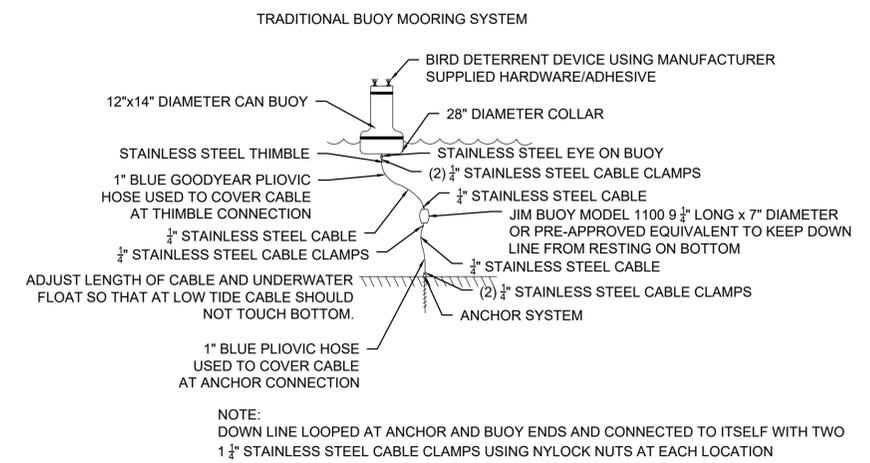


NOTE:
COMPONENTS OF TYPES I, II, III MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I, II, III SHALL BE AS APPROVED BY THE ENGINEER.

1 - SILT CURTAINS (FLOATING TURBIDITY BARRIERS) NTS



2 - 3'x4' SINGLE PILE WITH BIRD DETERRENT DEVICE NTS



3 - TRADITIONAL BUOY MOORING SYSTEM NTS

- NOTES**
- TEMPORARY WARNING SIGNS ARE REQUIRED DURING CONSTRUCTION PHASE. TEMPORARY WARNING SIGNS SHALL BE PROMPTLY REMOVED AFTER CONSTRUCTION ENDS.
 - CONTRACTOR SHALL COORDINATE WITH THE U.S. COAST GUARD FOR ACTUAL WARNING LANGUAGE TO BE USED ON TEMPORARY WARNING SIGNS. REFER TO SPECIFICATION FOR ADDITIONAL WARNING SIGN REQUIREMENTS.

NO.	DATE	DR	CHK	APVD	BY	APVD
		L. BAKER	C. MAGUIRE	L. BASSETTI	J. TILLERY	

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PENSACOLA, FL 32502

The Nature Conservancy
OYSTER REEF BREAKAWATER
THE NATURE CONSERVANCY
TYNDALL AIR FORCE BASE, FL

JACOBS

GENERAL
TYPICAL DETAILS
NAVIGATION MARKER AND
TURBIDITY BARRIER

NTS	
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