

CLARKNEXSEN Project: Maritime Museum Education Center,

421 N. Harrington Street, Suite 600 Beaufort, NC – Construction Phase Services

Raleigh, NC 27603 Phone: 919-828-1876

Date: August 16, 2024 **SCO#:** 24-27956-01A

Prepared by: Allan Kram, AIA CN #: 10145-01

This ADDENDUM is to be a part of the contract documents and modifies and takes precedence over the original bid documents, as noted below and in any attached documents. Original items of the plans and specifications that have been modified, amended, voided, or suspended through previous addendums, shall remain in effect. It is the responsibility of the Bidder to notify and/or distribute this ADDENDUM to those sub-bidders who have received prints or digital files. The Bidder is to acknowledge receipt of this ADDENDUM in the space provided on the Bid Form.

DRAWING MODIFICATIONS

- 1. Sheets C0.00, C2.00, C2.01, C2.02, C2.03, C2.04, C4.01, C4.02, C4.03, C5.01, C5.02, and C5.03
 - a. REPLACE sheets in their entirety:
 - i. Revised fire lane alignment along waterfront.
 - ii. Added culvert under main entrance driveway.
 - iii. Removed wetland impact at western end of northern parking lot.
 - iv. Revised base bid sheets to call out concrete ribbon curb instead of river rock edging (Add Alternate 9).
- 2. Sheets C1.00, C1.01, C1.03, and C1.04
 - a. REPLACE sheets in their entirety:
 - i. Revised fire lane alignment along waterfront.
 - ii. An existing culvert has been indicated.
 - iii. A culvert to be removed has been indicated.
 - iv. A culvert under main entrance driveway has been added.
- 3. Sheets C3.01, C3.02, C7.00, and C7.01
 - a. REPLACE sheets in their entirety:
 - i. Added 3/4" irrigation service and updated the public utility easement.
 - ii. Revised fire lane alignment along waterfront.
 - iii. Added culvert under main entrance driveway.
 - iv. Removed wetland impact at western end of northern parking lot.
- 4. Sheet C6.01
 - a. <u>REPLACE</u> sheet in its entirety: A rip rap dissipator detail was added.
- 5. Sheet C9.00
 - a. <u>REPLACE</u> sheet in its entirety:
 - i. An asphalt pavement detail has been updated.
 - ii. A heavy-duty concrete paving detail for fire lane has been added.
- 6. Sheet L3.00, L3.01, and L7.00
 - a. <u>REPLACE</u> sheet in their entirety: Fire Access Road has been revised.



- 7. Sheet AE514
 - a. <u>REPLACE</u> sheet in its entirety: A note has been modified.

PROJECT MANUAL MODIFICATIONS

- 1. Refer to Specification Section 102239 Folding Partitions
 - a. REPLACE Section in its entirety.
- 2. Refer to Specification Section 113034 Ceiling Fan
 - a. <u>ADD</u> Section in its entirety.

GENERAL

- 1. As a reminder: This is the final Addendum.
- 2. As a reminder: Sealed bids are to be delivered to the North Carolina Maritime Museum in Beaufort, NC in the office of Charles Oliver at **315 Front St., Beaufort, NC** up to **3:00 p.m.** on **August 26, 2024**.

REQUEST FOR SUBSTITUTION

- 1. A request was made for substitution of the metal roof panel system with Construction Metal Products metal roof panel.
 - **a.** RESPONSE: This request is accepted.
- 2. A request was made for substitution of the folding partition with Kwik-Wall.
 - **a.** RESPONSE: This request is accepted.
- 3. A request was made for substitution of the elevator with Schumacher Elevator.
 - **a.** RESPONSE: This request is rejected.



QUESTIONS AND ANSWERS

- 1. Suggest a longer project duration of 120 additional days due to the amount of grading, site location, dewatering, and potential material delays. We are a local coastal Contractor and know the challenges that this region creates.
 - The Terracon report alone requires no building slab work for at least 30 days, after fill placement, due to the amount of settling that will take place from 6'-8' of fill needed.
 - Here are some long lead material issues which are critical to the project.
 - **a.** Electrical is a big unknown at this point, as those subcontractors are usually the last to submit their bids to General Contractors and remain silent. With this said, we have seen many delays on recent projects with breakers, panels, certain fixtures, etc. 2 projects we are currently doing in Wilson, carried a 6-8-month lead time on electrical panels.
 - **b.** Polished block specified carries a 5-month lead time, after approved submittals, per two masonry subs we use regularly.
 - **c.** Laminated timber/ beams/ CLT carries a 6–7-month lead time after approved shop drawings, per a turnkey vendor I talked to.
 - **a.** RESPONSE: No extension to the construction schedule is granted.
- 2. **QUESTION:** I suggest softening liquidated damages to \$500 per day as this is the norm on most projects that we are seeing and bidding. This may also help lower the overall project cost with how Contractors may view this project, to account for the higher \$1K liquidated damages.
 - **a.** RESPONSE: No reduction to liquidated damages is granted.
- 3. **QUESTION:** Would the consideration of the bid opening being held on a Tuesday, Wednesday, or Thursday be possible? I know it's been changed already, but just thought I would ask as typical bid dates are held from Tuesday Thursday's.
 - **a.** RESPONSE: No change to the bid opening date is granted.
- 4. **QUESTION:** What are trees that are not called out on the "Type B buffer yard plant schedule"? Are they existing or are we required to plant them?
 - **a.** RESPONSE: All required trees for Type B Buffer Yard planting are called out in the Type B Buffer Yard Plant Schedule. Any tree locations that fall outside of the Buffer zone should refer to the larger plant schedule for "Trees." Please note that tree symbols shown with a dashed circle denote existing, while trees with a continuous circle symbol denote proposed.



- 5. **QUESTION:** Spacing of the plants on the Legends for "wetland transition, Garden plants and Coastal Landscape" areas. It gives percentages, but does not give overall quantity or spacing.
 - **a.** RESPONSE: These areas are to be seeded with mixes that include the noted species according to the percentage of mix quantities listed in the planting schedule. Quantities of species in each mix to be calculated by Contractor by applying the listed percentages to the total surface area of each zone.
- 6. **QUESTION:** Is irrigation required? If so, what is the water source?
 - **a.** RESPONSE: Yes, irrigation is required in the Event Lawn and turf areas on site. Refer to revisions on sheets C3.01, C3.02, C7.00, and C7.01 for irrigation service.
- 7. **QUESTION:** Per detail 5&6/L4.00 The pedestrian and vehicular pavement is showing reinforcing, however there is no denotation of what kind of reinforcing. Can you provide this?
 - **a.** RESPONSE: Refer to sheet C9.00. An asphalt pavement reinforcing detail has been updated and a heavy-duty concrete paving detail for fire lane has been added.
- 8. **QUESTION:** Per detail 5&6/L4.00 The pedestrian and vehicular pavement is showing an integral seashell aggregate. Can you provide a type/ dosage rate for this shell?
 - a. RESPONSE: Seashell aggregate to consist of seeded surface of 1/2" washed coastal shell.
- 9. **QUESTION:** Per detail A1/AE514 the cast-in-place walls are to receive a board form finish, can you provide a size/ pattern that will be used.
 - a. RESPONSE: Refer to sheet AE514. A note has been modified to indicate the size to be used.
- 10. **QUESTION:** Plan page AE112 keynote #1 refers to fans. There is no spec section for this. What is the basis of design for this?
 - a. RESPONSE: Refer to the attached Specifications Section 113034 Ceiling Fan. Utilize spare 20A/1P breaker at circuit MP-25 with 2#12, 1#12 in ½" conduit to feed four (4) fans in the Multipurpose Room. Utilize spare 20A/1P breaker at circuit MP-27 with 2#12, 1#12 in ½" conduit to feed one (1) fan in Corridor 210.
- 11. **QUESTION:** Could you please specify the species for the timber columns and please verify that there are 3 timber columns?
 - **a.** RESPONSE: The timber columns are glulams as specified in structural keynote 104 and the Structural General Notes glulam section. There are several timber columns shown on the plan, and each column is also a double column. Bidders to review the drawings carefully.



- 12. QUESTION: Could you please provide dimensional details on the Cross Laminated Timber?
 - **a.** RESPONSE: Structural keynote 301 addresses the CLT. See also Cross Laminated Timber Structural General Notes.
- 13. **QUESTION:** Regarding the CLT materials, the specifications identify this to be constructed of southern yellow pine, however we have a couple of suppliers who are unable to fabricate/source in this species. Would it be acceptable for the CLT on this project to be constructed of douglas fir?
 - **a.** RESPONSE: Yes, Douglas Fir is structurally acceptable provided that all required properties listed on the Structural General Notes are met.
- 14. **QUESTION:** Specification section 051200 Structural Steel Framing, article 1.8 requires the steel fabricator to either be AISC qualified or IAS Fabricator Program certified. Given the size of this project, it may not attract many AISC or IAS certified fabricators, will it be approved to use a fabricator that engages an independent third-party inspector to inspect the shop and quality procedures for this project? This is an approved method by IBC.
 - **a.** RESPONSE: Yes, having the inspections done as required by chapter 17 of the Building Code is an acceptable alternative; and the cost of third-party inspections will be at the expense of the General Contractor.
- 15. **QUESTION:** The specified manufacturers for 102239 (Folding Partitions) are either out of business or has decided to not bid on this project. I have no approved manufacturers to work with for this scope. We could use another option, if you could consider.
 - a. RESPONSE: The Specifications for Folding Partitions have been updated. See attached section.



ATTACHMENTS

- 1. Drawing Sheets:
 - a. C0.00
 - b. C1.00
 - c. C1.01
 - d. C1.03
 - e. C1.04
 - f. C2.00

 - g. C2.01 h. C2.02
 - i. C2.03
 - j. C2.04
 - k. C3.01
 - l. C3.02

 - m. C4.01
 - n. C4.02
 - o. C4.03
 - p. C5.01
 - q. C5.02
 - r. C5.03
 - s. C5.03
 - t. C6.01
 - u. C7.00
 - v. C7.01
 - w. C9.00
 - x. L3.00
 - y. L3.01
 - z. L7.00
 - aa. AE514
- 2. Specifications Sections:
 - a. 102239 Folding Partitions
 - b. 113034 Ceiling Fan

END OF ADDENDUM 07

BID DOCUMENTS

BEAUFORT MARITIME EDUCATION CENTER

PARCEL DATA

SURVEY BENCHMARK

BENCHMARK IS LOCAL TO SITE.

SEE SHEET C1.00 FOR BENCHMARK INFORMATION.

VERTICAL DATUM BASED ON NAVD 88.

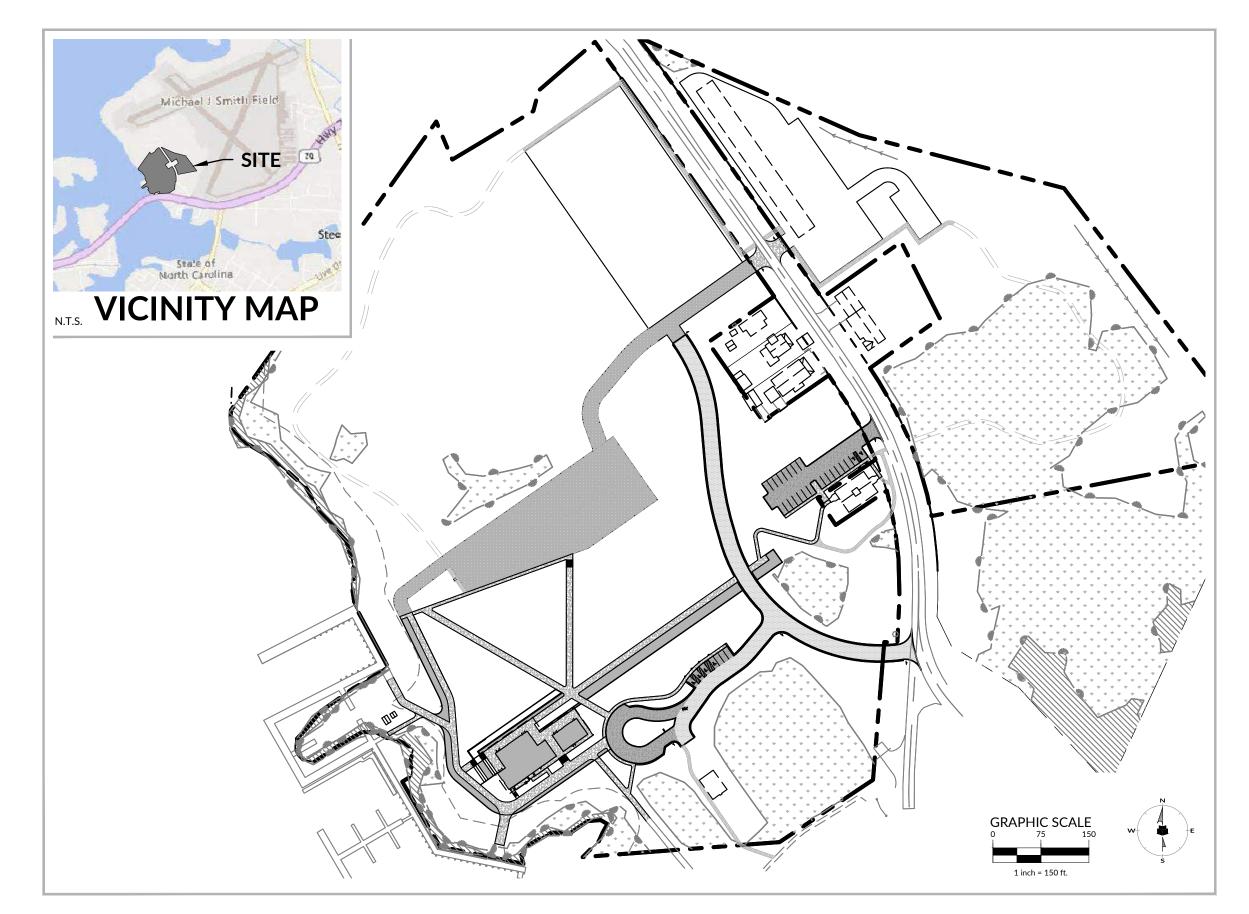
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OWNER: STATE OF NORTH CAROLINA OWNER: CAROLINA CAY MARITIME FDN INC
ADDRESS: 293 WEST BEAUFORT RD EXT
BEAUFORT, NC 28516

ZONING: B-W
AREA: 25.54 AC
DEED REF: 802-480

PIN: 730613147310000
OWNER: STATE EXEMPTION
ADDRESS: N/A
AREA: 3.27 AC
DEED REF: 0870-00577

SITE	DATA TABLE
PARCEL PIN NO.	730613140379000, 730613144542000, 730613147310000
TOTAL PROJECT AREA (ACRES)	28.93 AC
WATERSHED	WHITE OAK
ZONING	B-W (BUSINESS WATERFRONT), R-20 (RESIDENTIAL)
EXISTING USE	EDUCATION
EXISTING BUILDING AREA	2,460 SF (BONEHENGE BUILDING)
PROPOSED USE	EDUCATION
PROPOSED BUILDING AREA	8,688 SF
TOTAL NUMBER OF UNITS	1 EXISTING, 1 PROPOSED, 2 TOTAL
PROPOSED DENSITY	0.07 UNITS PER ACRE
SETBACKS:	
FRONT	30'
SIDE	15'
REAR	15'
MAXIMUM BUILDING HEIGHT	35'
IMPERVIOUS AREAS:	
EXISTING	3.14 AC
PROPOSED	1.97 AC
FUTURE ALLOCATION	1.03 AC
WETLAND AREAS:	
COASTAL WETLANDS	0.76 AC
NON-COASTAL WETLANDS	1.68 AC
TOTAL SITE AREA LESS COASTAL WETLANDS & EXISTING IMPERVIOUS	25.04 AC
IMPERVIOUS PERCENTAGE	12.00 %
PROPOSED AREA OF DISTURBANCE	12.45 AC
PARKING CALCULATIONS:	
SPACES REQUIRED	38 (1 SP/300 SF BUILDING AREA)
SPACES PROVIDED	121 (6 ACCESSIBLE SPACES PROVIDED)
VEHICULAR ACCESS AREA (VAA)	187,893.00 SF
LANDSCAPE CALCULATIONS:	
AREA REQUIRED	22,547.16 SF (SEE L7.00 FOR DETAILED CALCULATIONS)
AREA PROVIDED	130,500 SF (SEE L7.00 FOR DETAILED CALCULATIONS)

293 WEST BEAUFORT RD EXT. | BEAUFORT, NC | CARTERET COUNTY



NOTES

- ENTIRE PROJECT DRAINS TO THE NEWPORT RIVER.
 THE PUBLIC UTILITY EASEMENT PROPOSED WILL BE CONVEYED TO
- THE TOWN AS A PART OF THE FINAL PLAT PROCESS.

 THE TOWN OF REALIFORT RECOMMENDS A TRAFFIC IMPACT ANALYS
- 3. THE TOWN OF BEAUFORT RECOMMENDS A TRAFFIC IMPACT ANALYSIS (TIA) BE PERFORMED PRIOR TO INITIATION OF THE FUTURE MUSEUM BUILDING PHASE.
- 4. ALL PERVIOUS HARDSCAPE SURFACES ARE TO BE MAINTAINED BY THE DEVELOPER AND PROPERTY OWNER. THE TOWN OF BEAUFORT IS NOT RESPONSIBLE FOR REPAIRS TO PAVERS, PERVIOUS PAVEMENT, ETC.

INDEX OF SHEETS				
Sheet #	Sheet Title			
C0.00	COVER			
C0.01	GENERAL NOTES			
C0.02	GENERAL NOTES			
C0.03	BOUNDARY AND TOPOGRAPHIC SURVEY			
C0.04	BOUNDARY AND TOPOGRAPHIC SURVEY			
C1.00	OVERALL EXISTING CONDITIONS PLAN			
C1.01	EXISTING CONDITIONS PLAN			
C1.02	EXISTING CONDITIONS PLAN			
C1.03	DEMOLITION PLAN			
C1.04	DEMOLITION PLAN			
C2.00	OVERALL SITE PLAN			
C2.01	SITE PLAN			
C2.02	SITE PLAN			
C2.03	SIGNAGE AND ACCESS PLAN			
C2.04	ADD ALTERNATE PLAN			
C3.01	UTILITY PLAN			
C3.02	UTILITY PLAN			
C4.01	GRADING & DRAINAGE PLAN			
C4.02	GRADING & DRAINAGE PLAN			
C4.03	GRADING ENLARGEMENT			
C5.01	EROSION CONTROL PLAN (STAGE 1)			
C5.02	EROSION CONTROL PLAN (STAGE 1)			
C5.03	EROSION CONTROL PLAN (STAGE 2)			
C5.04	EROSION CONTROL PLAN (STAGE 2)			
C6.00	NCG01			
C6.01	EROSION CONTROL NOTES & DETAILS			
C6.02	EROSION CONTROL & DRAINAGE DETAILS			
C7.00	SANITARY FORCE MAIN PLAN & PROFILE			
C7.01	WATER PLAN & PROFILE			
C9.00	SITE DETAILS			
C9.01	SITE DETAILS			
C9.02	SANITARY SEWER AND WATER DETAILS			
C9.04	WATER DETAILS			
PS1.00	GRINDER PUMP STATION DETAILS			
PS1.00 PS2.00	GRINDER PUMP STATION DETAILS GRINDER PUMP STATION DETAILS			

CONTACT LIST:

Civil Engineer Ryan Bergeron WithersRavenel 219 Station Road, Suite 101 Wilmington, NC 28403 910-256-9277

Architect ClarkNexsen 421 North Harrington Street Suite 600 Raleigh, North Carolina 919 828-1876





PREPARED BY:



DEVELOPER:
MARITIME HERITAGE
FOUNDATION
293 W BEAUFORT ROAD EXT., BEAUFORT, NC 28516
ATTENTION: CHARLES OLIVER

PHONE: (919) 941-8400

BID DOCUMENTS BEAUFORT MARITIME EDUCATION CENTER WR PROJECT NO.03221471 TOWN OF BEAUFORT: MUNI PRO NO:N/A 06/07/2024 MARITIME HERITAGE FOUNDATION
THE NORTH CAROLINA MARITIME MUSEUM

Maritime Education Center

293 W BEAUFORT ROAD EXT, BEAUFORT, NC 28516

CN PROJ #: 10145 SCO ID #: 24-27956-01A

CLARKNEXSEN

421 NORTH HARRINGTON STREET, SUITE 600

RALEIGH, NORTH CAROLINA 27603

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CLARK NEXSEN LICENSE NUMBER C-1028

919-828-1876



219 STATION ROAD, SUITE 101
WILMINGTON, NORTH CAROLINA 28405
910·256·9277
WWW.WITHERSRAVENEL.COM
WITHERSRAVENEL LICENSE NUMBER F-1479

PROFESSIONAL SEAL

SUBMITTAL
JUNE 7, 2024

BID DOCUMENTS

 1
 07/24/2023
 ADDENDUM 3

 2
 08/02/2024
 ADDENDUM 5

 3
 08/16/2024
 ADDENDUM 7

KEY PLA

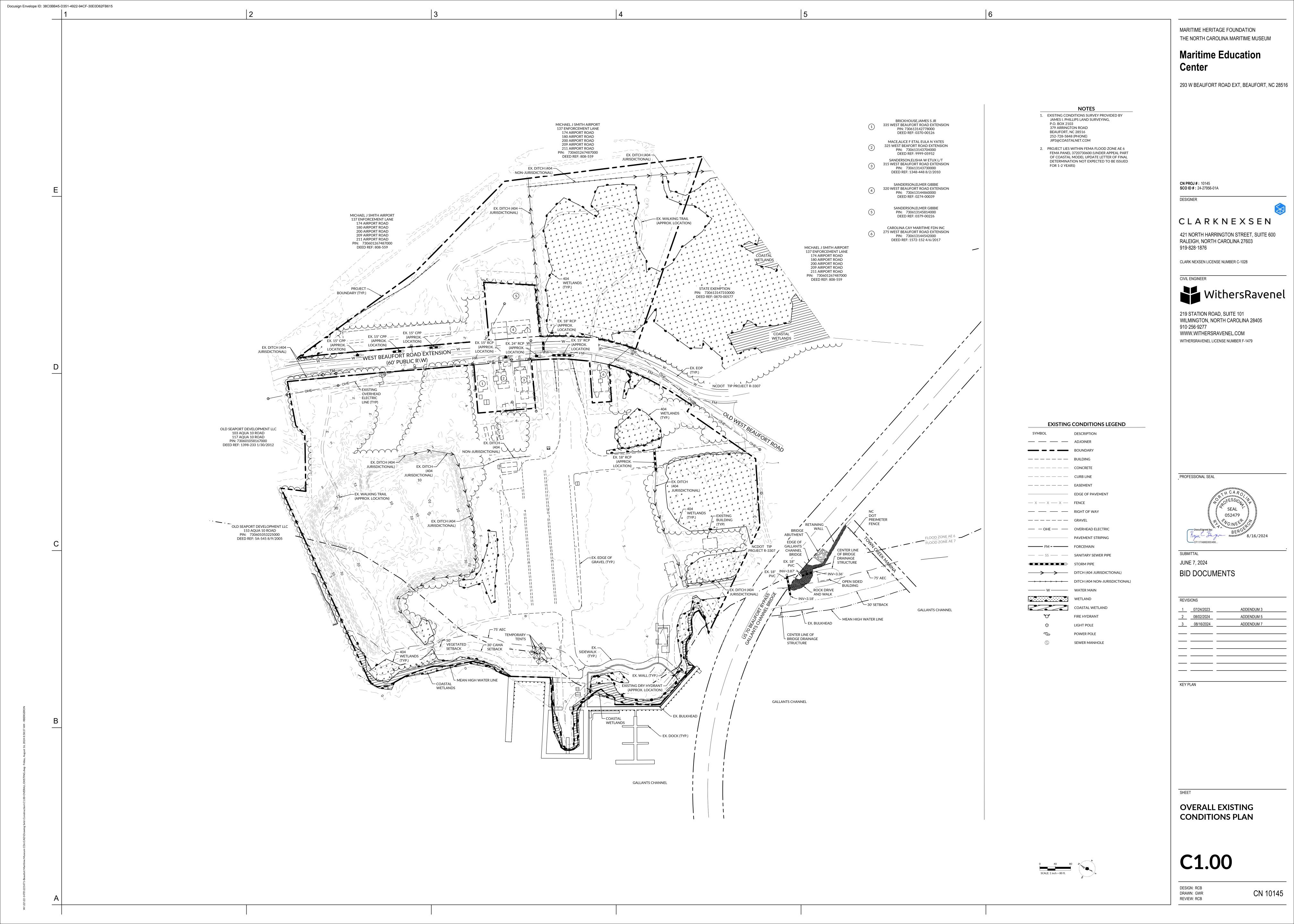
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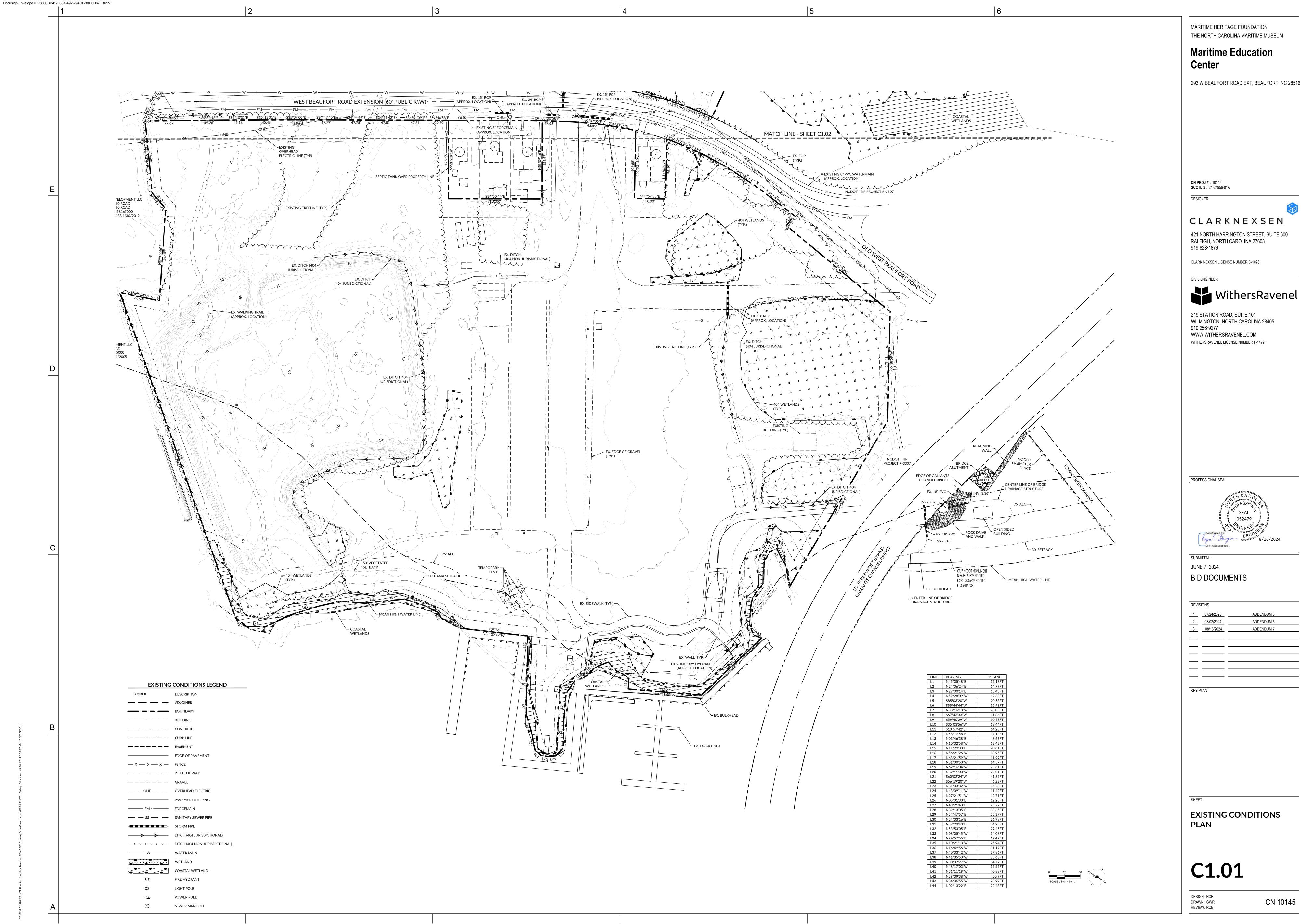
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C0.00

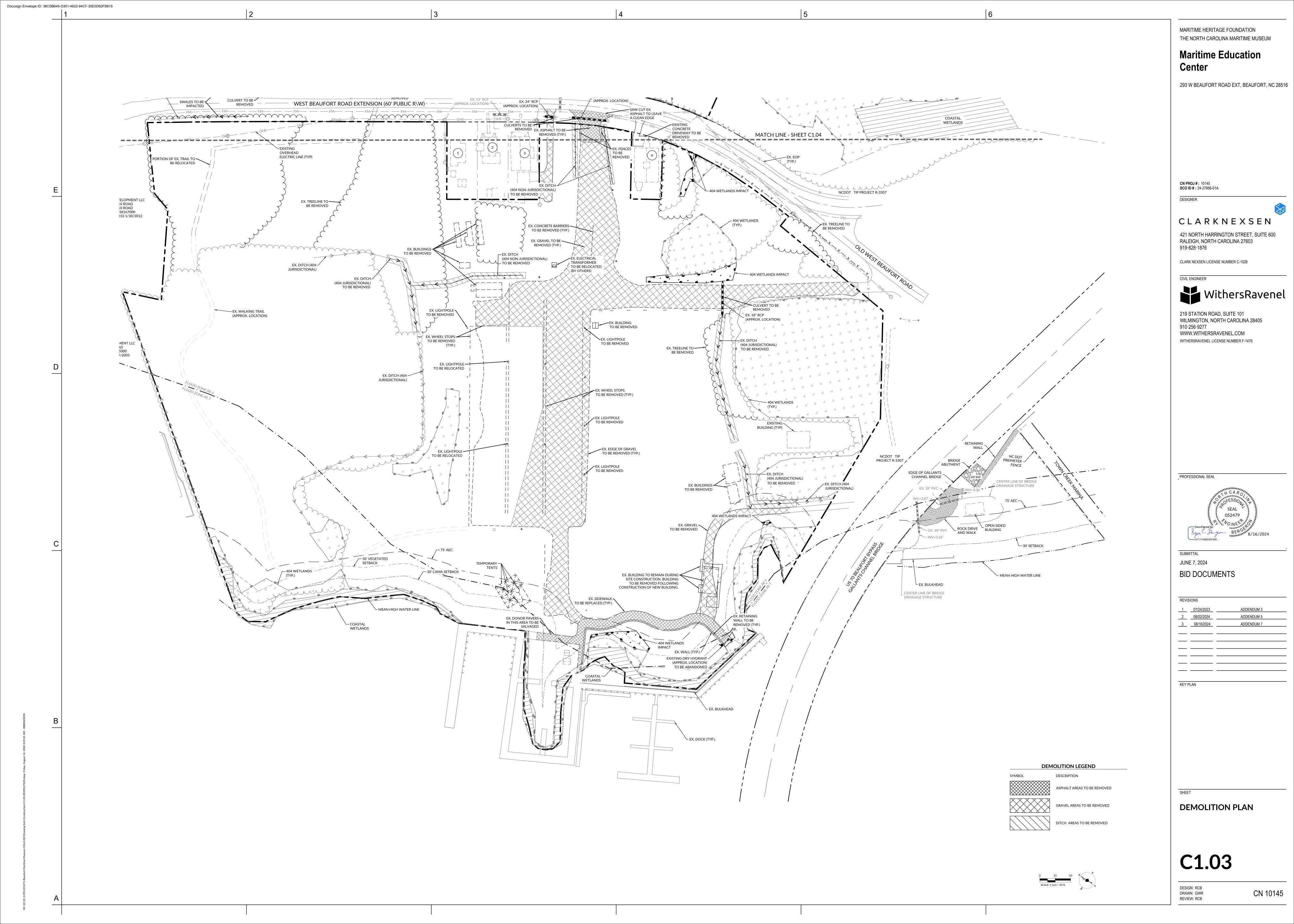
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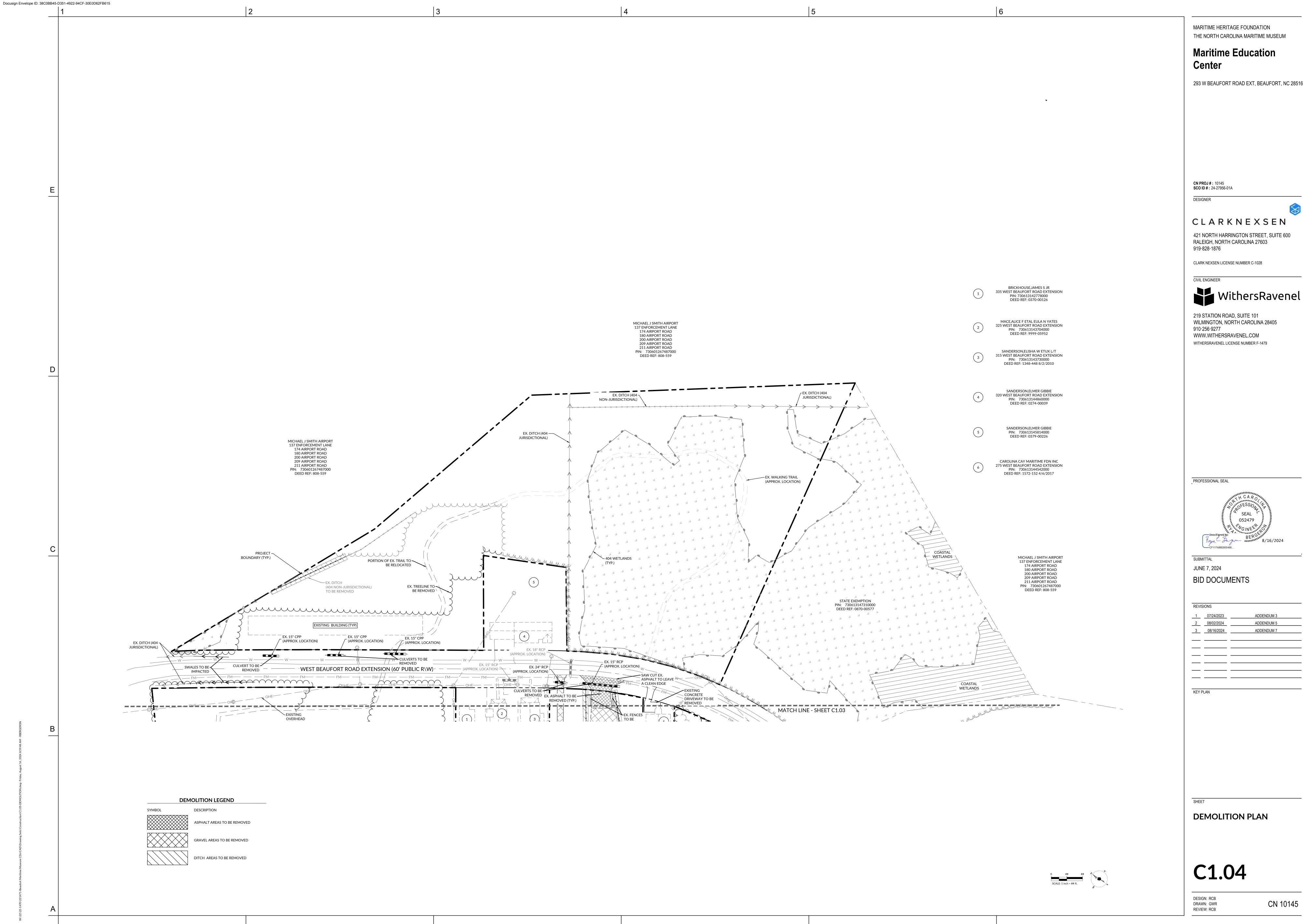
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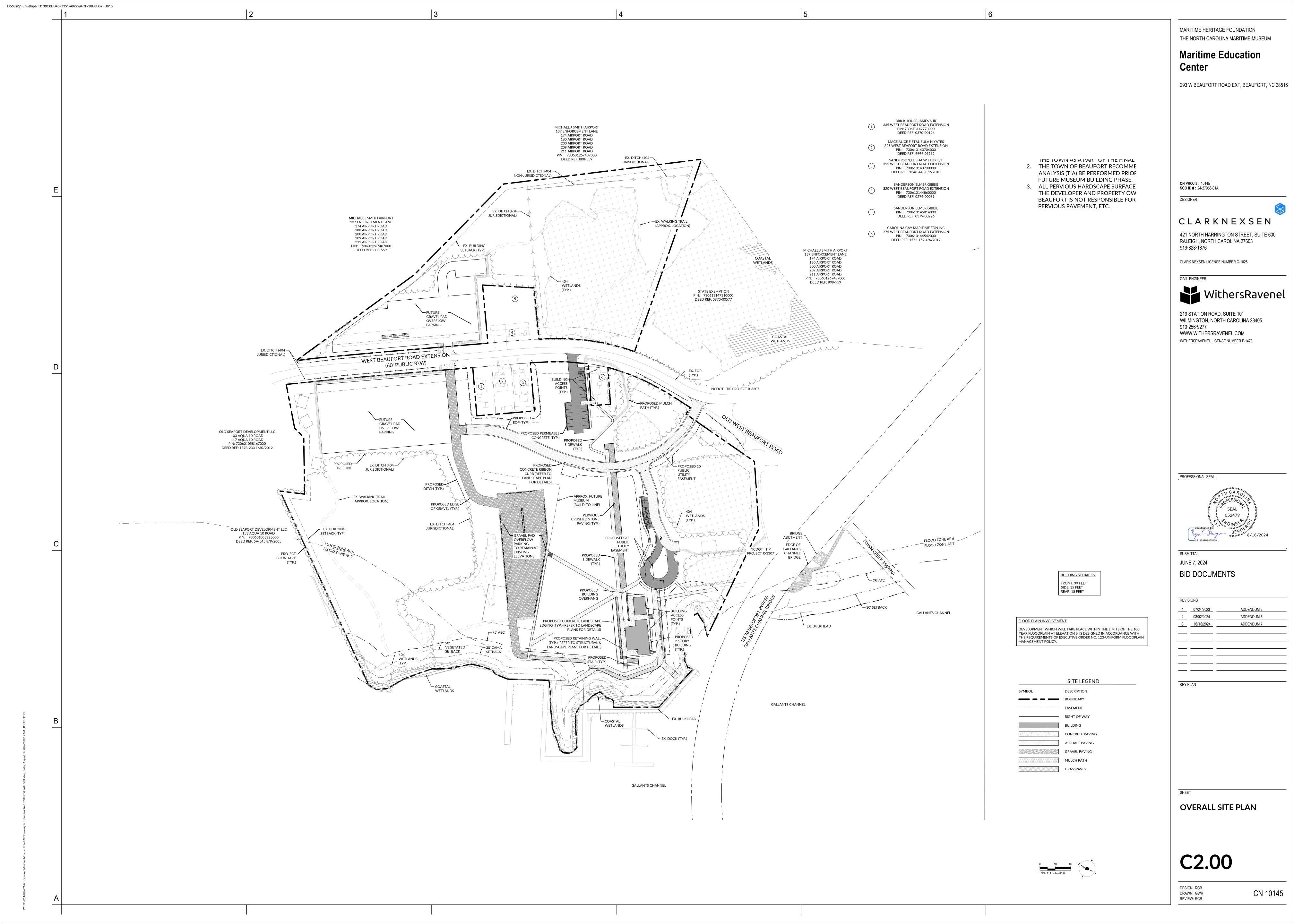


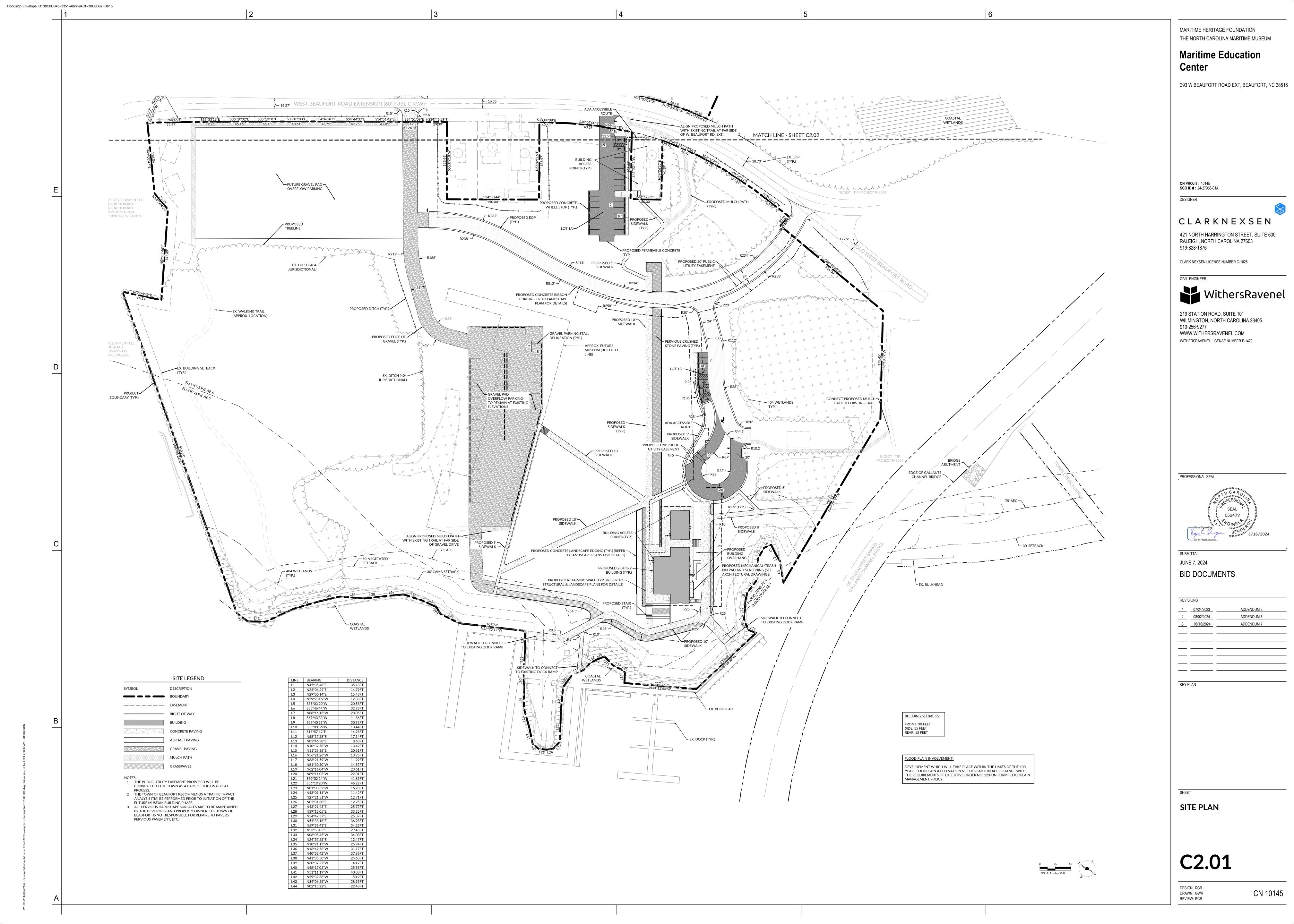


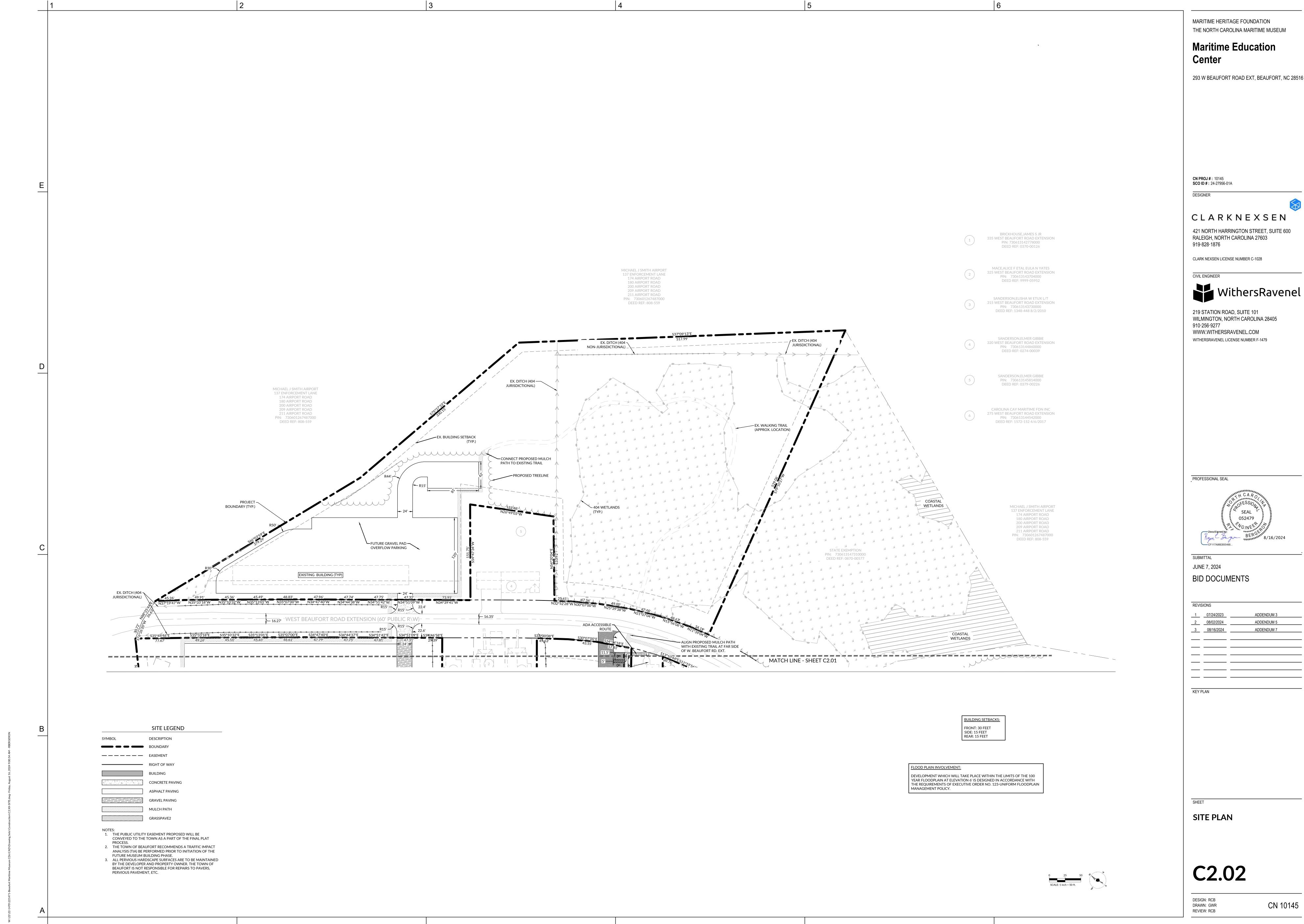


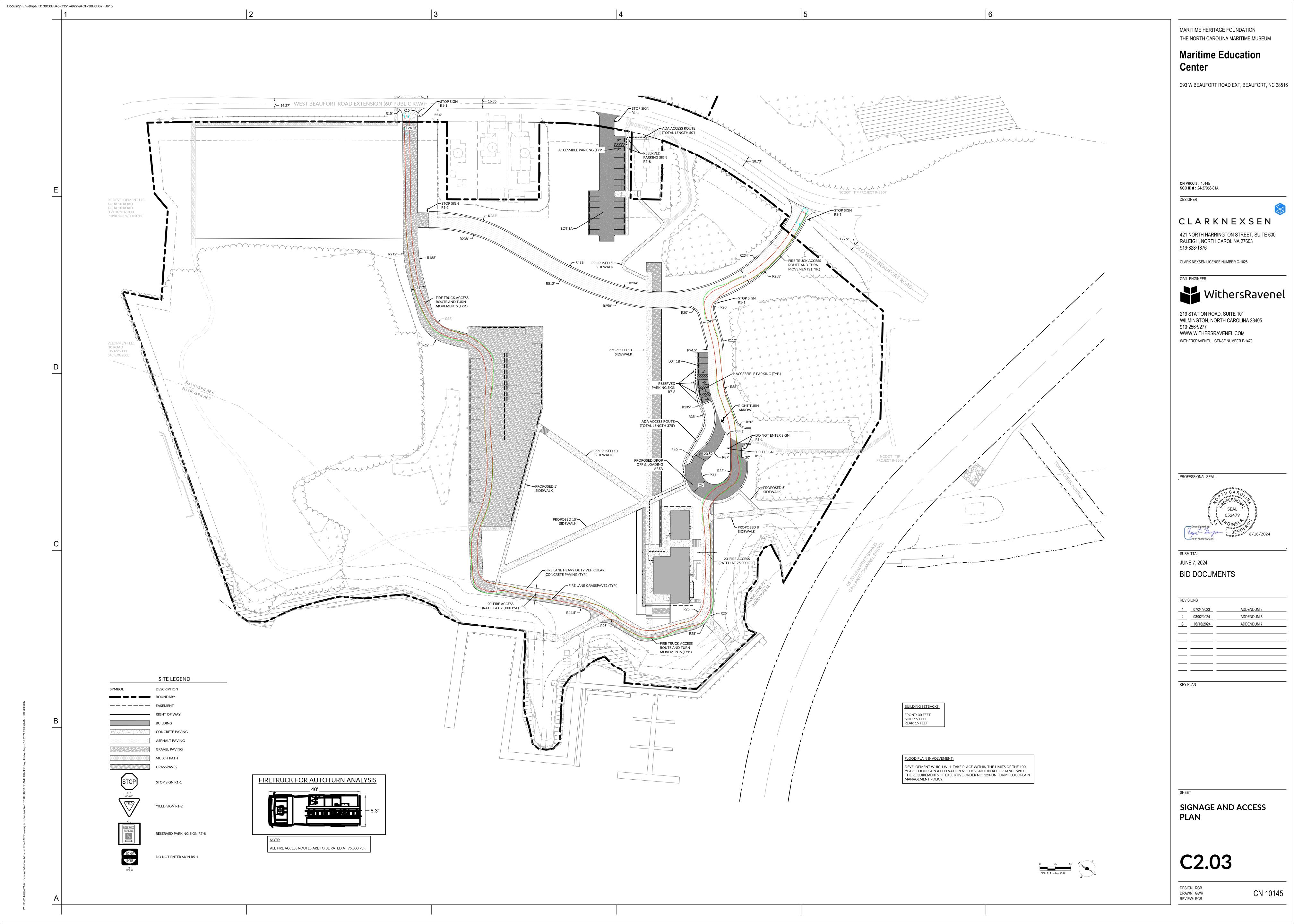




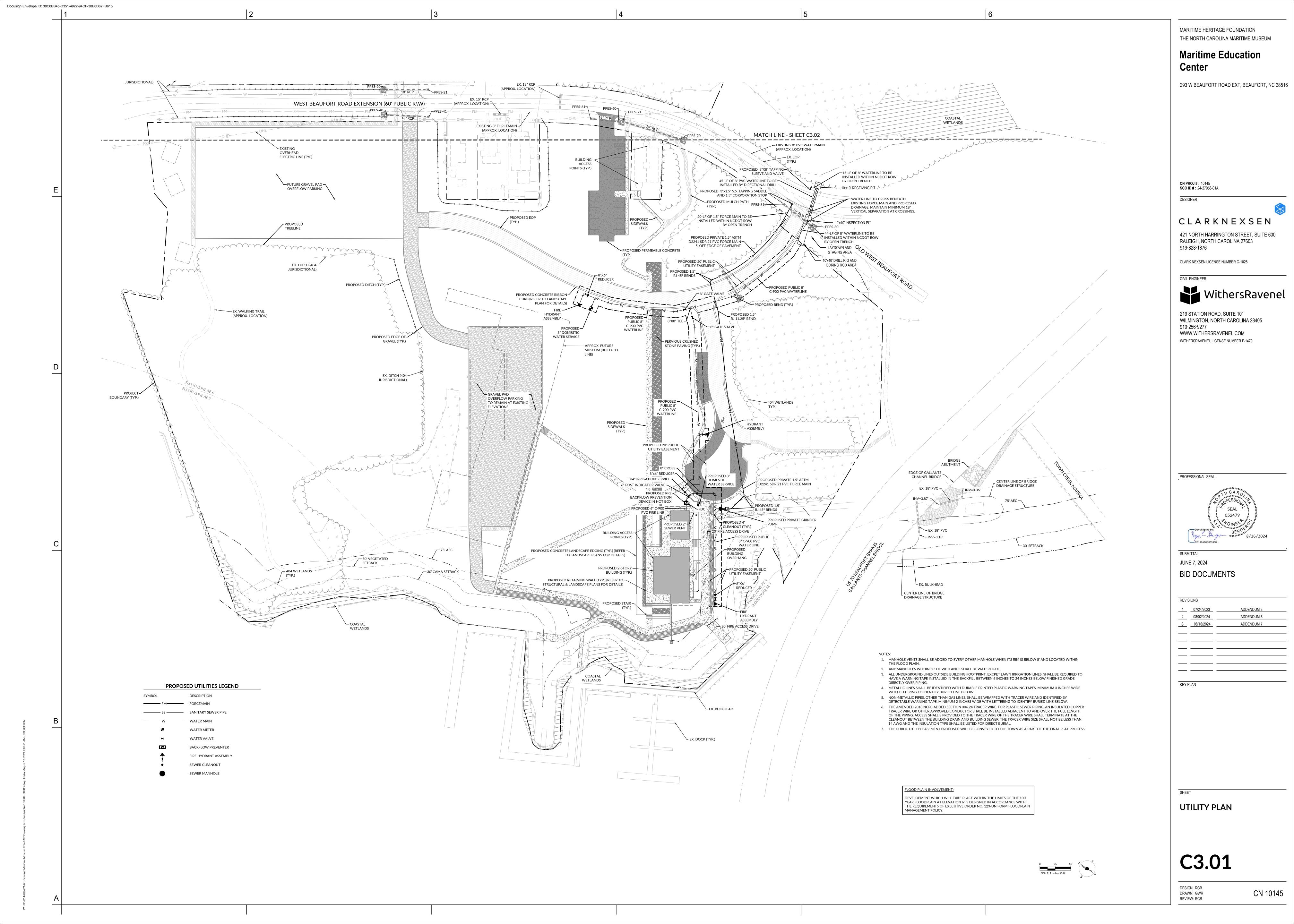


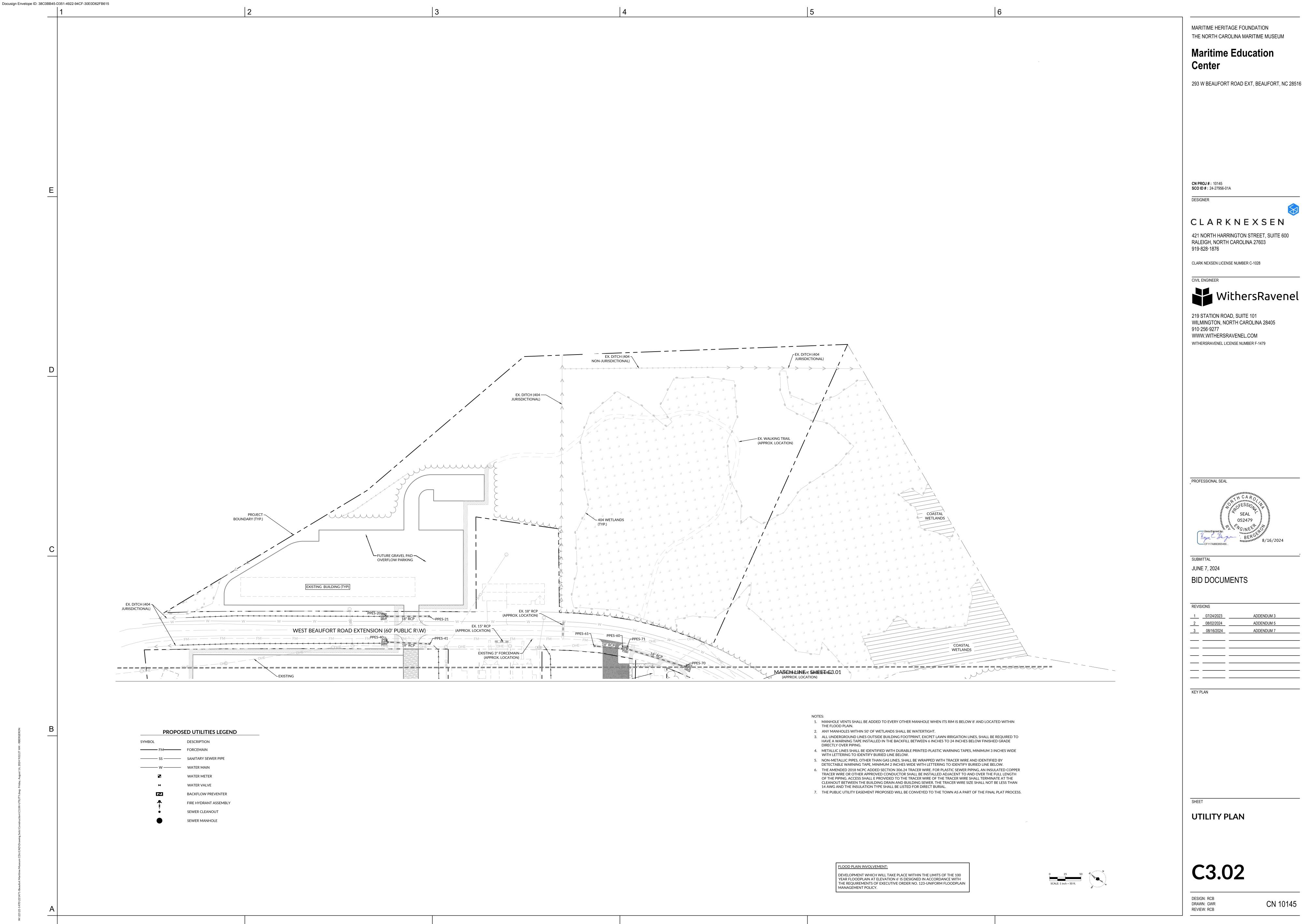




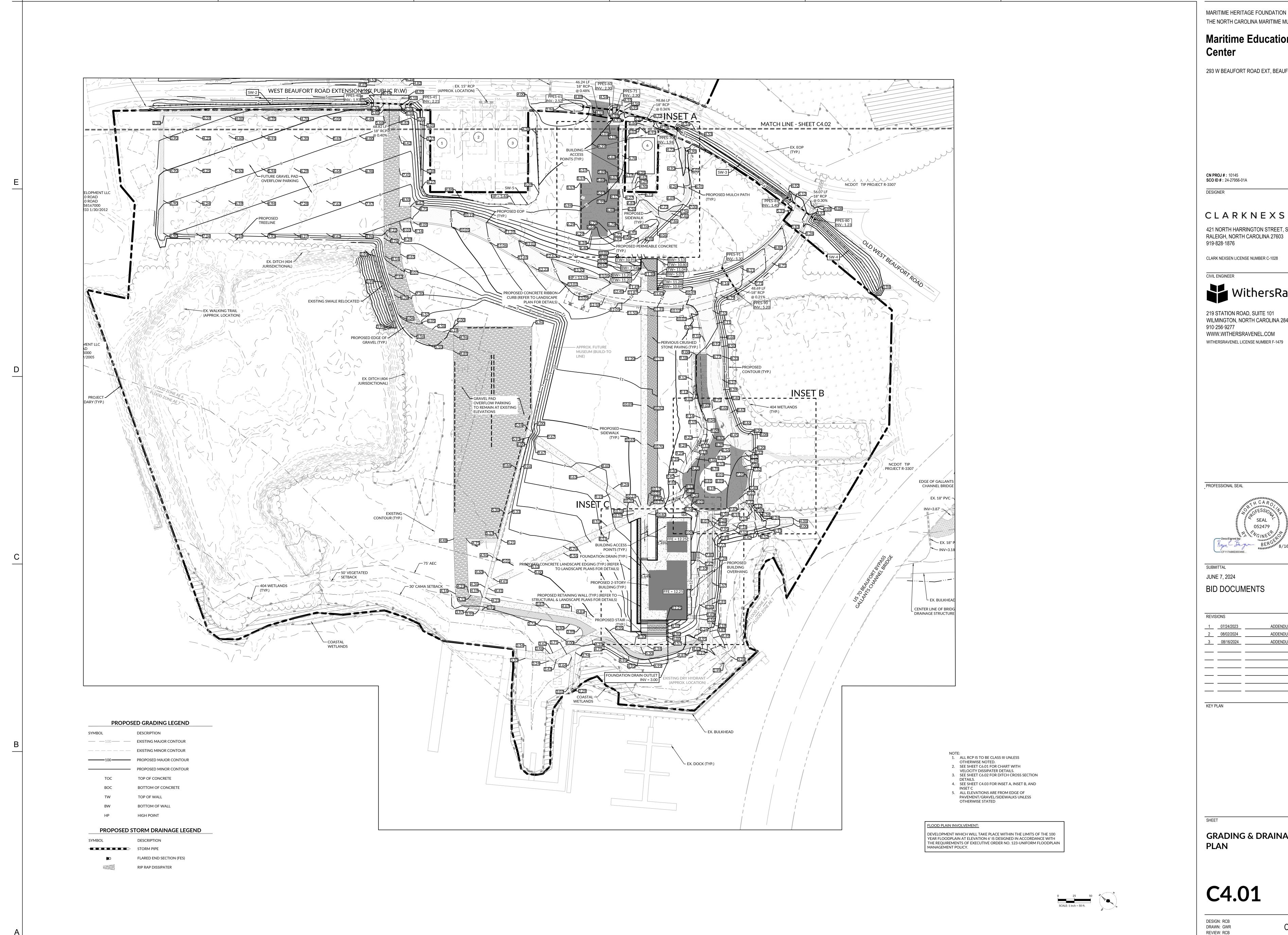












THE NORTH CAROLINA MARITIME MUSEUM

Maritime Education

293 W BEAUFORT ROAD EXT, BEAUFORT, NC 28516

CLARKNEXSEN

421 NORTH HARRINGTON STREET, SUITE 600 RALEIGH, NORTH CAROLINA 27603

CLARK NEXSEN LICENSE NUMBER C-1028



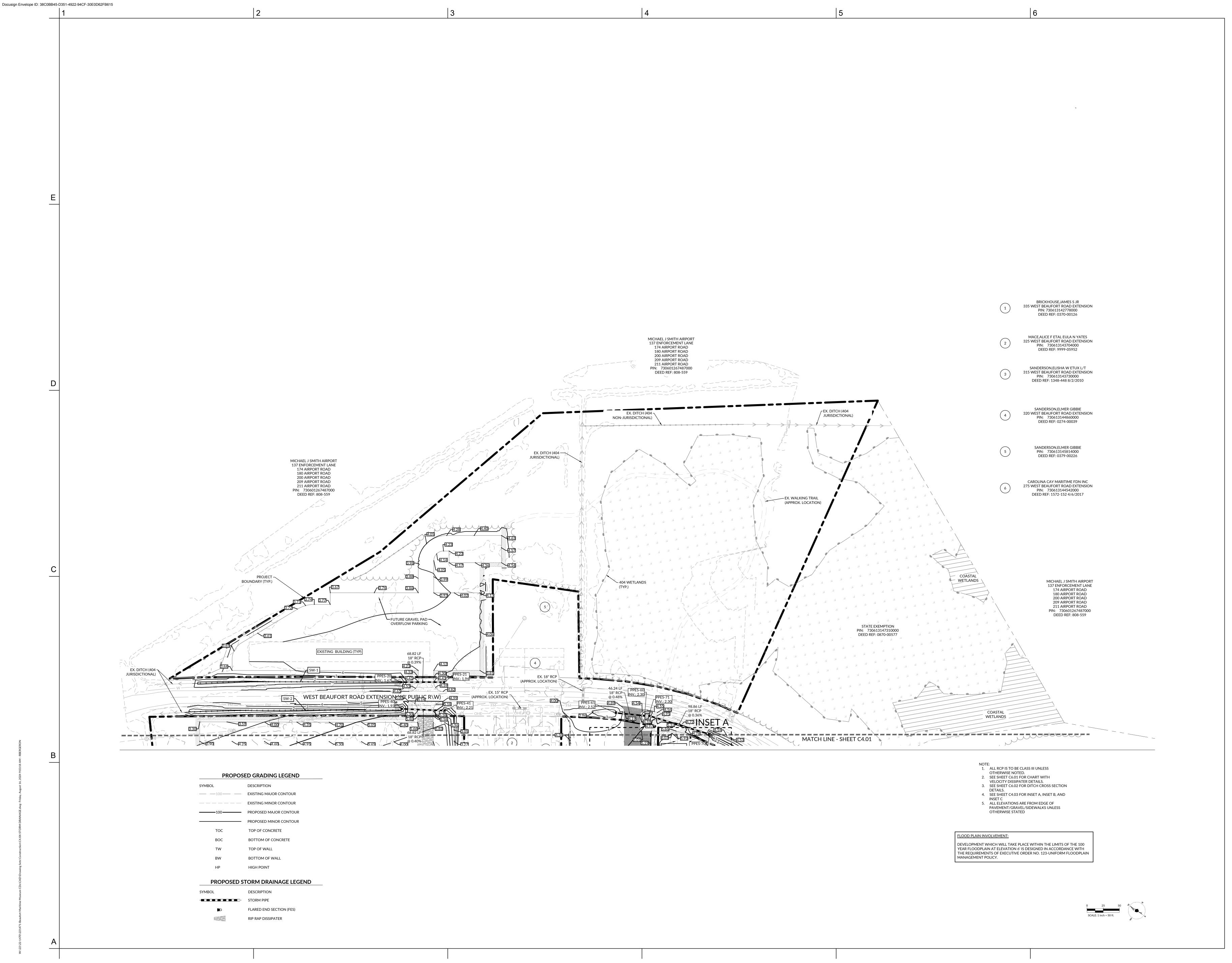
WILMINGTON, NORTH CAROLINA 28405 910-256-9277 WWW.WITHERSRAVENEL.COM WITHERSRAVENEL LICENSE NUMBER F-1479



BID DOCUMENTS

GRADING & DRAINAGE

C4.01



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CIVIL ENGINEER



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 ADDENDUM 3

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 08/16/2024
 ADDENDUM 7

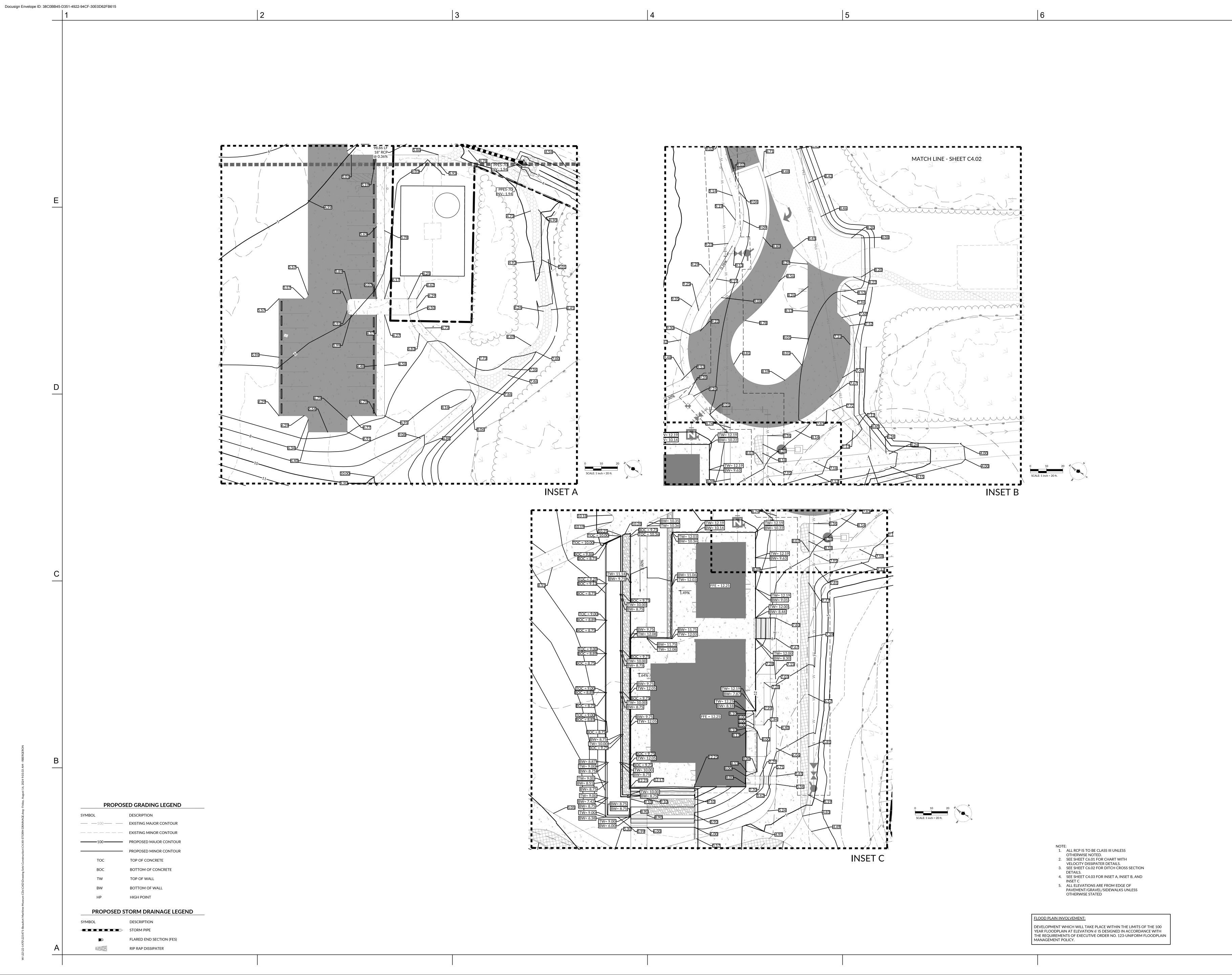
KEY PLAN

SHEET

GRADING & DRAINAGE PLAN

C4.02

DESIGN: RCB DRAWN: GWR REVIEW: RCB CN 10145



Maritime Education Center

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CN PROJ #: 10145 **SCO ID #**: 24-27956-01A

CLARKNEXSEN

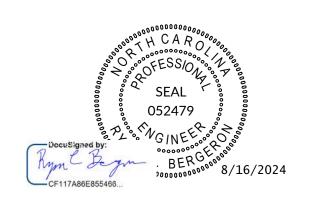
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CLARK NEXSEN LICENSE NUMBER C-1028



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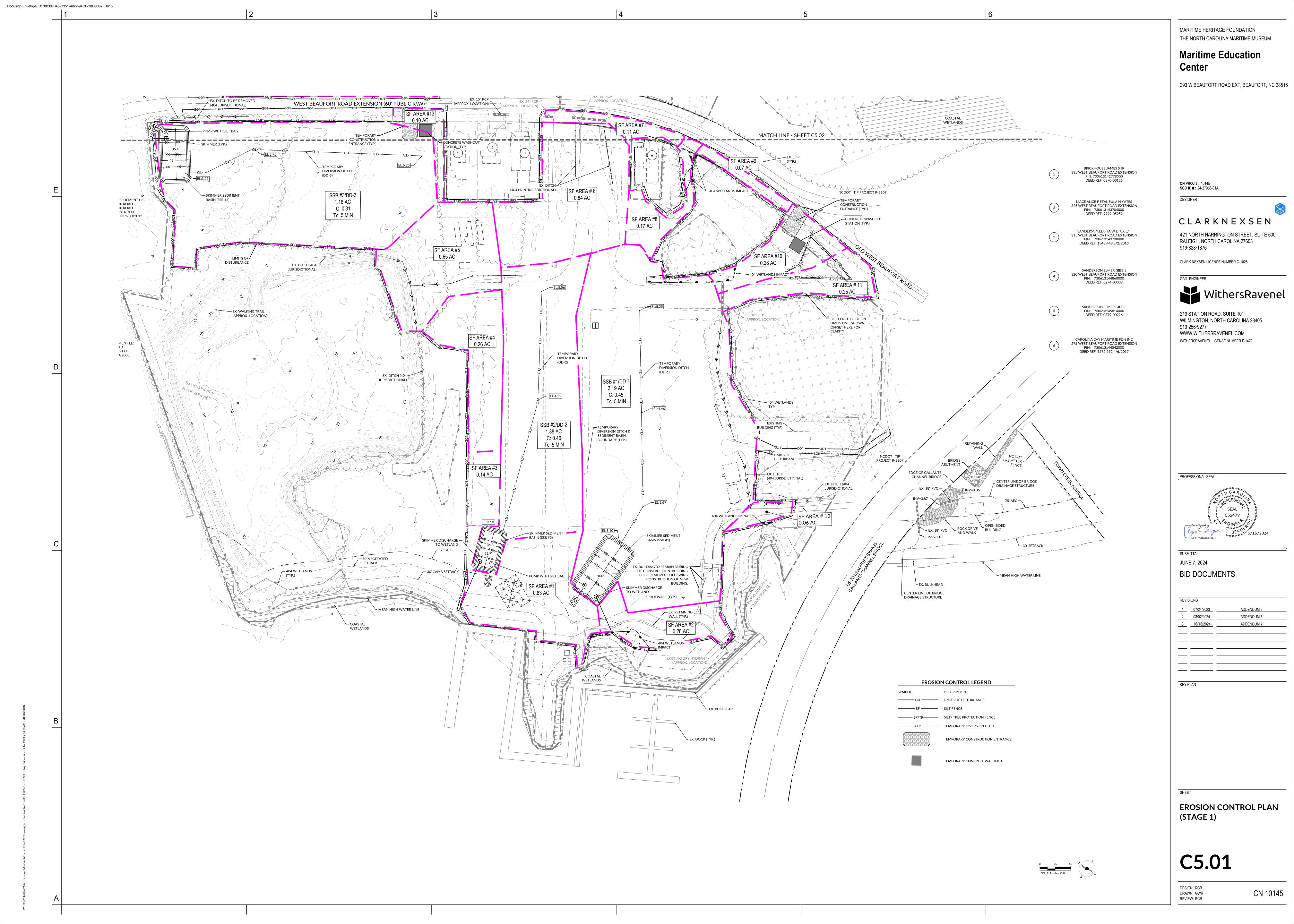
JUNE 7, 2024

BID DOCUMENTS

GRADING ENLARGEMENT

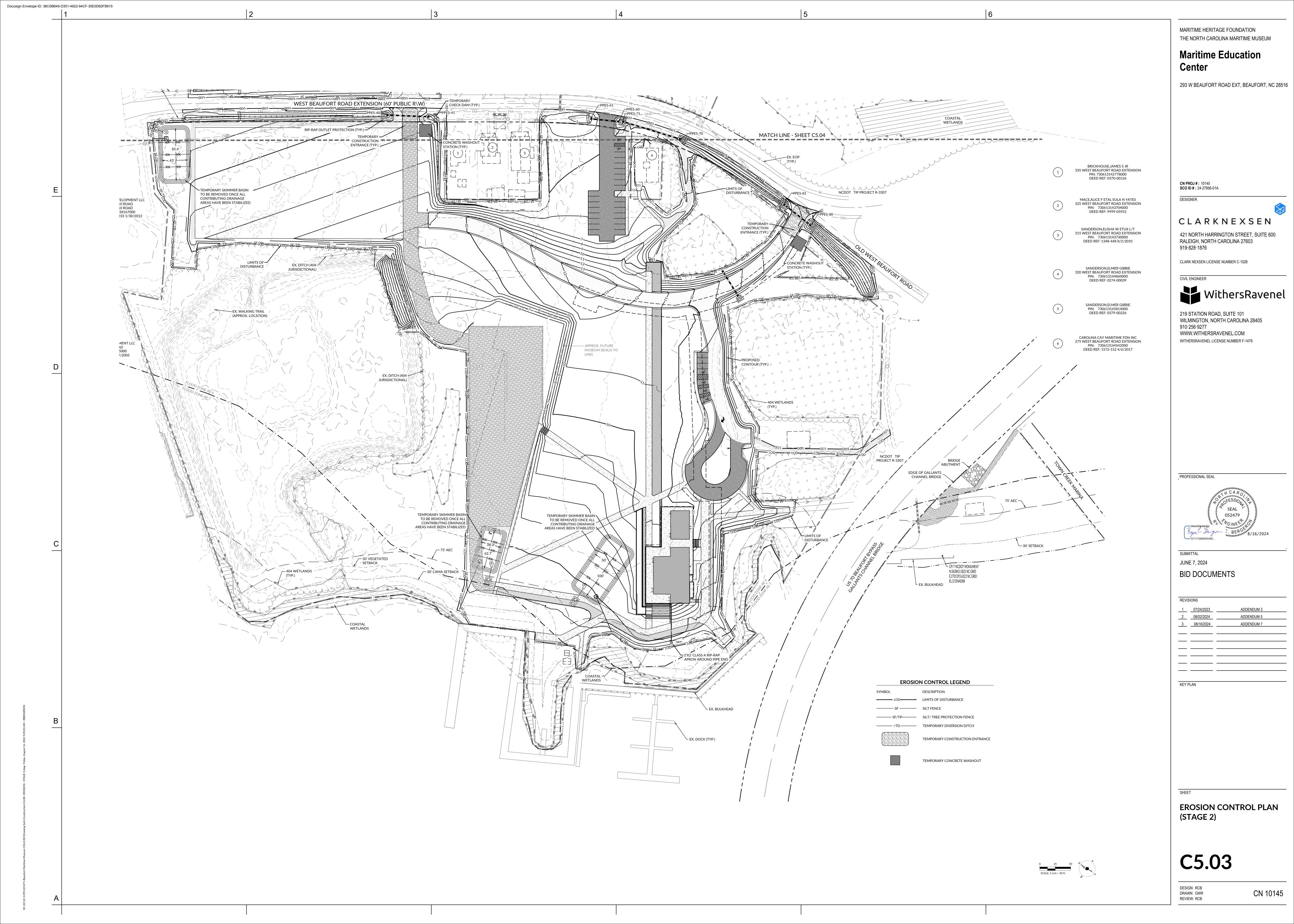
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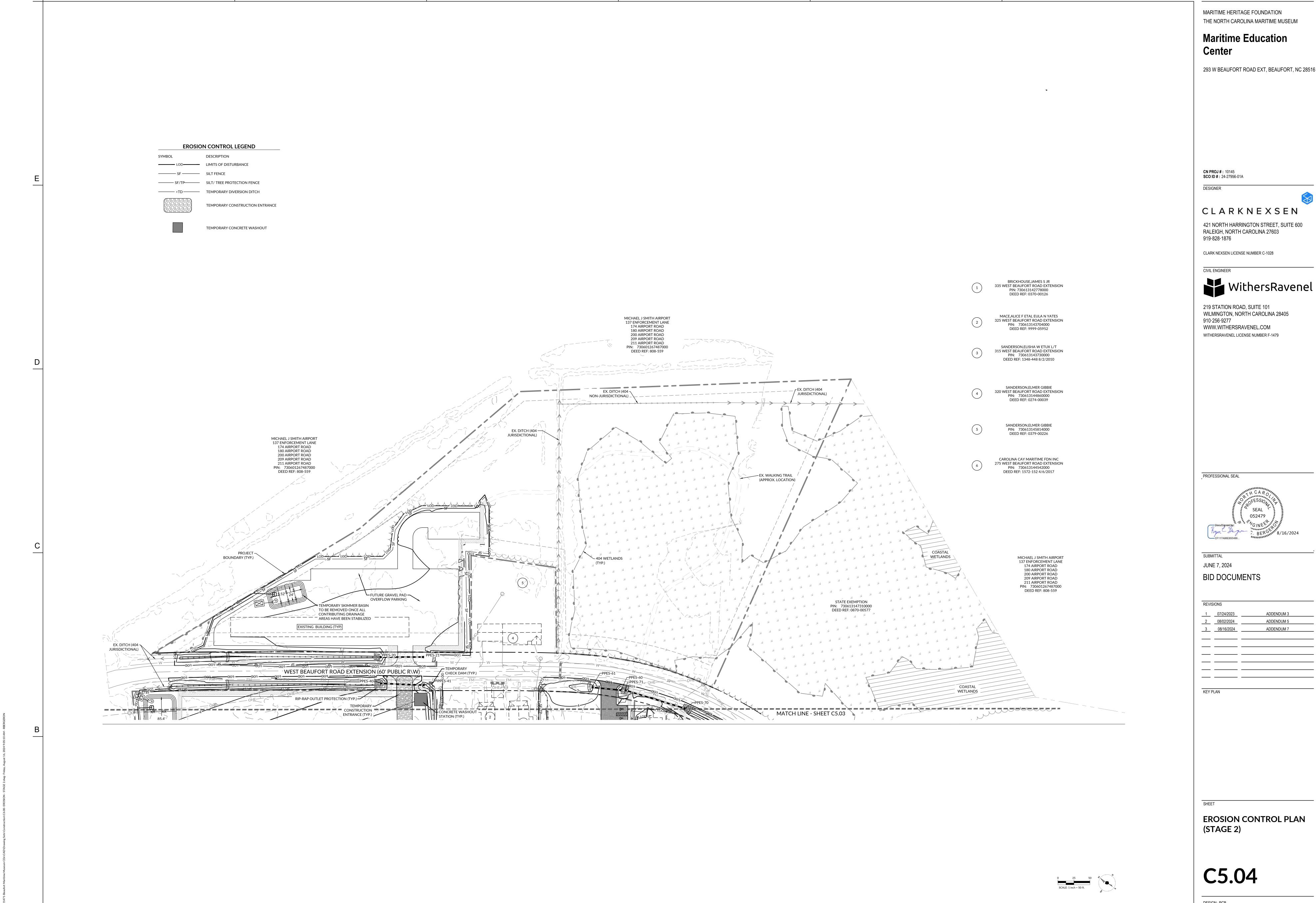
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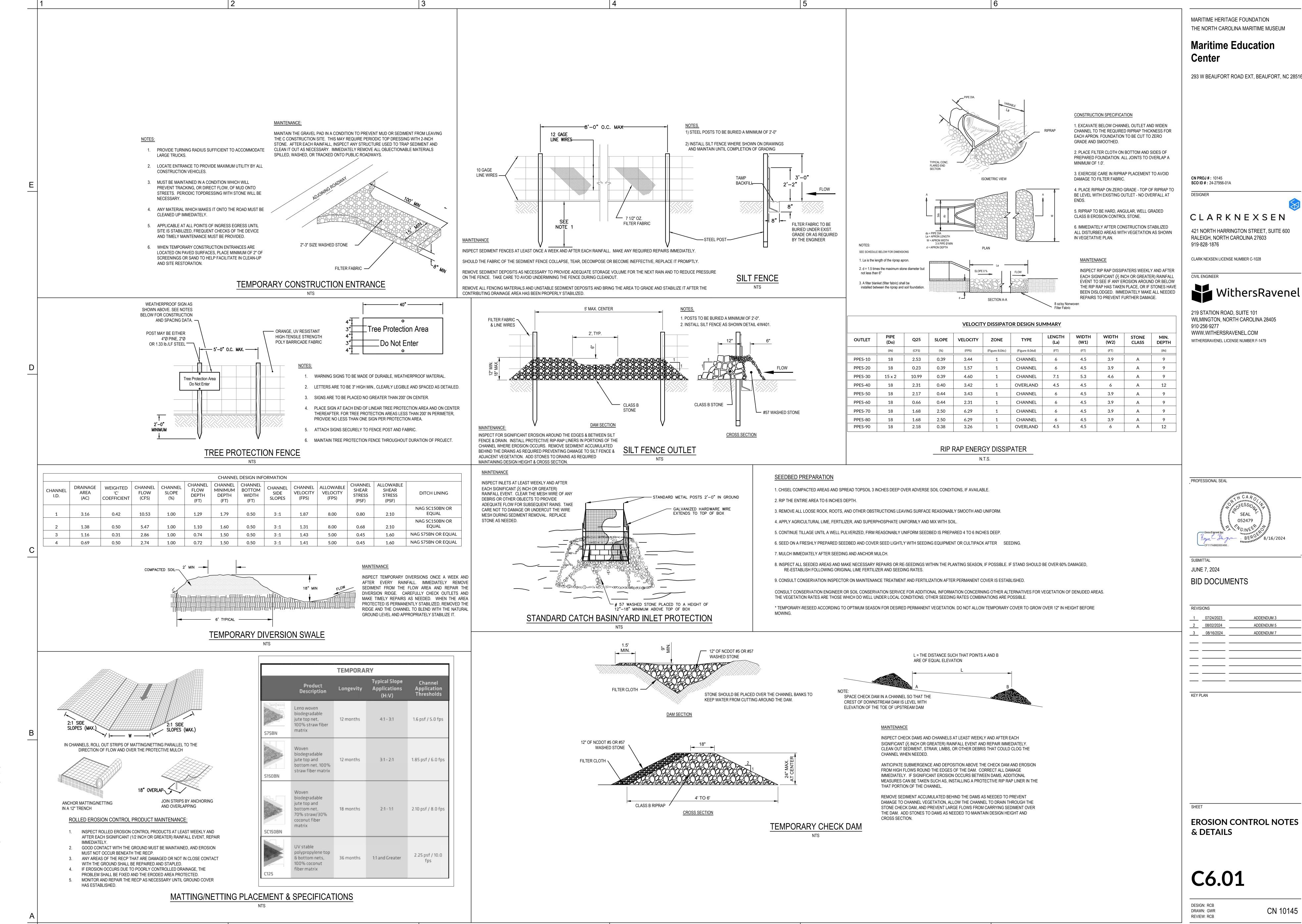
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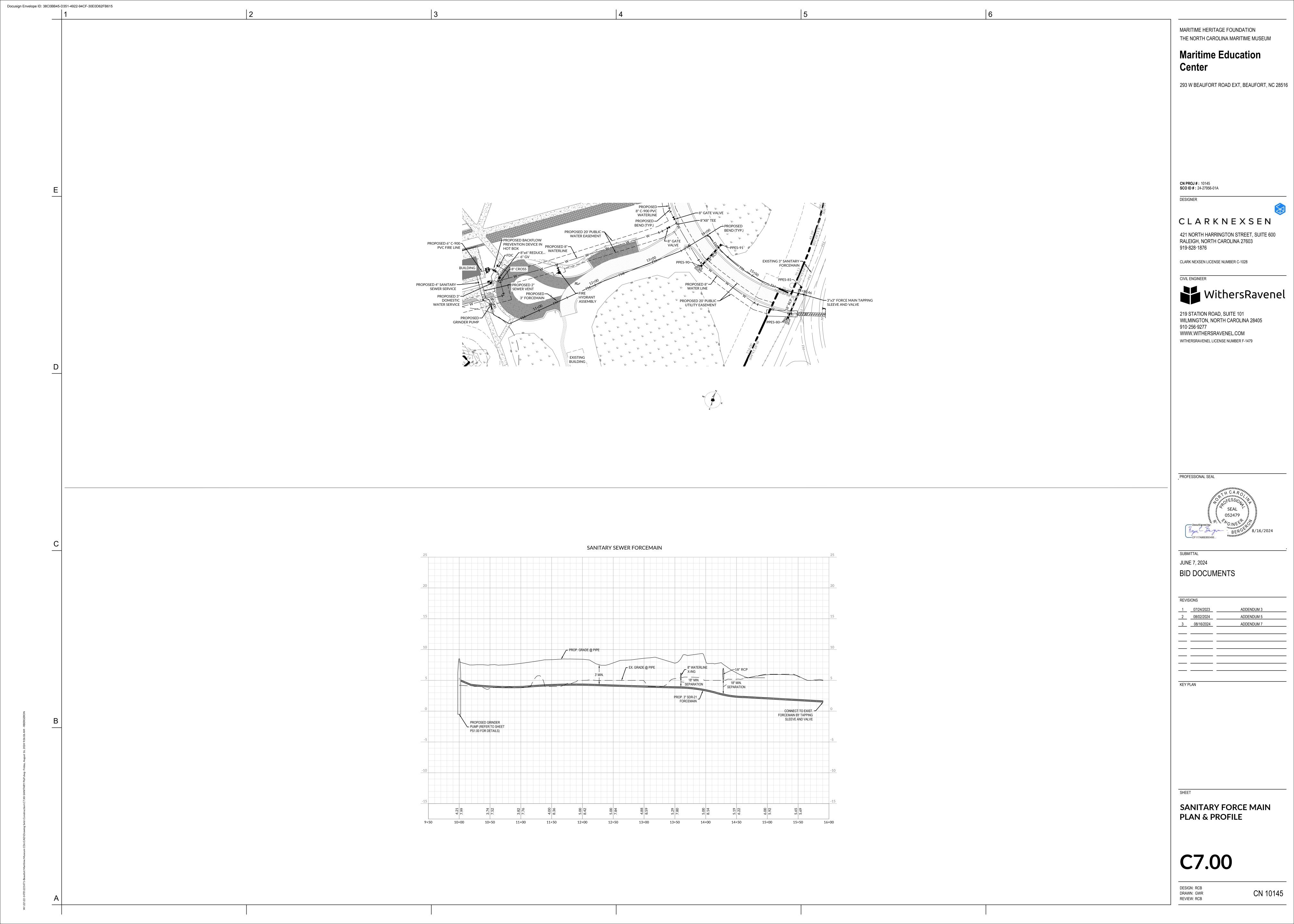


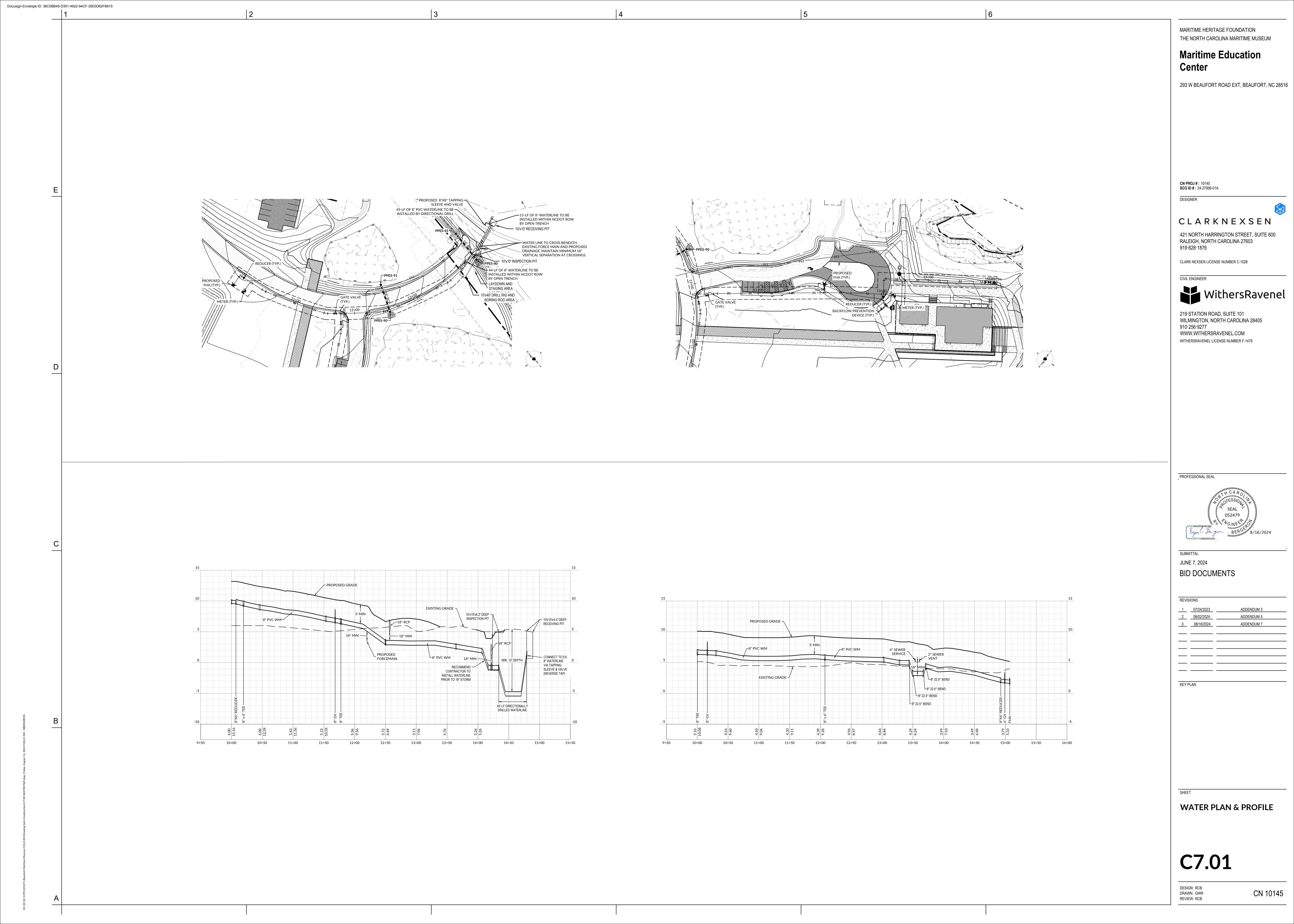
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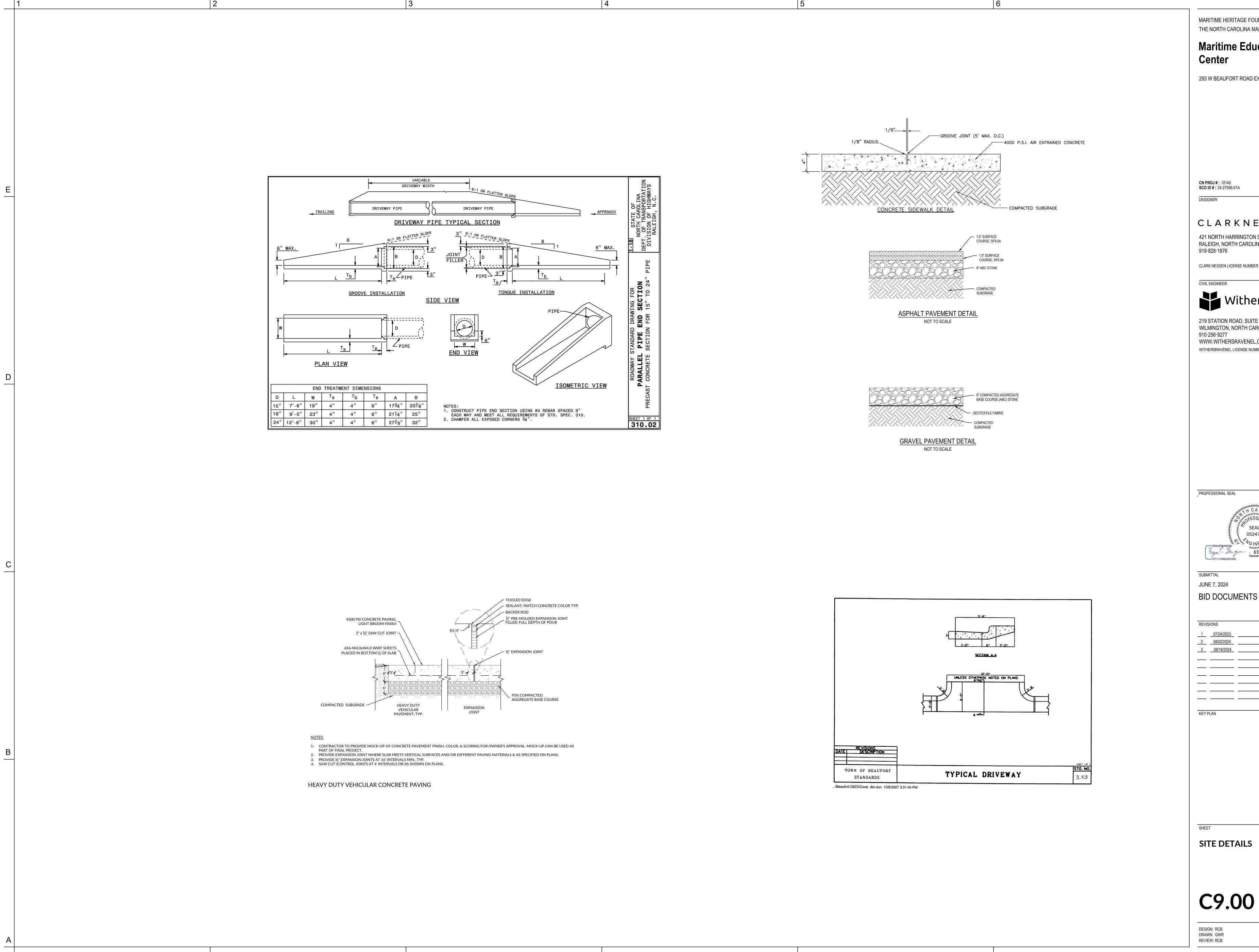




EROSION CONTROL NOTES







MARITIME HERITAGE FOUNDATION THE NORTH CAROLINA MARITIME MUSEUM

Maritime Education

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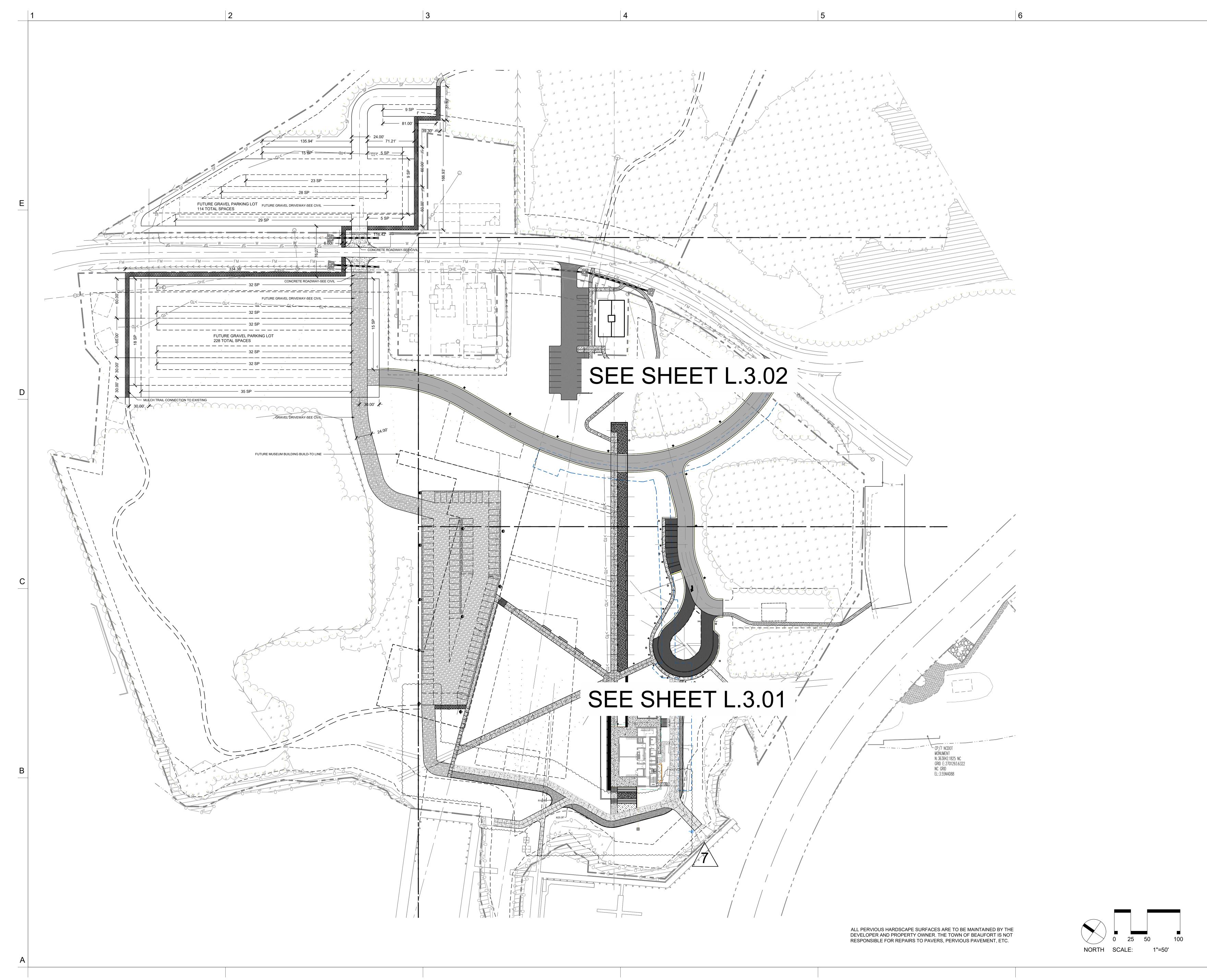
219 STATION ROAD, SUITE 101 WILMINGTON, NORTH CAROLINA 28405 WWW.WITHERSRAVENEL.COM WITHERSRAVENEL LICENSE NUMBER F-1479

PROFESSIONAL SEAL



SITE DETAILS

C9.00



Maritime Education Center

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CN PROJ #: 10145 SCO ID #: 24-27956-01A

DESIGNER

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REVISION

_1	07/24/2024	ADDENDUM 3	
2	08/02/2024	ADDENDUM 5	
3	08/16/2024	ADDENDUM 7	
		_	

KEY PLAN

OVERALL LAYOUT AND MATERIALS PLAN

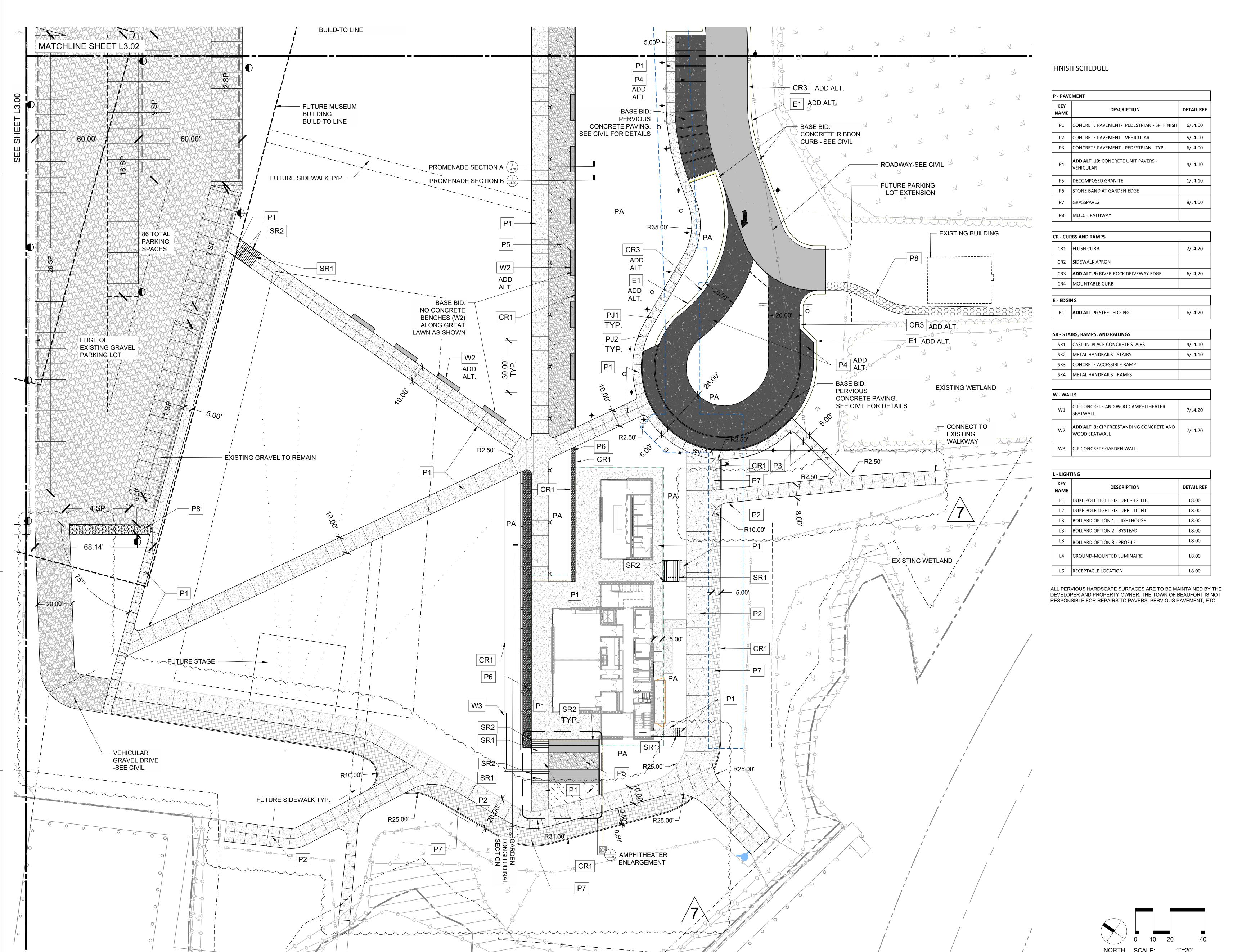
L3.00

PROJECT #: L22001

DESIGN: DA, GS

DRAWN: KP

REVIEW: DA



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CN PROJ #: 10145

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CONSULTANT



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REVISIONS

KEY PLAN

1 07/24/2024 ADDENDUM 3
2 08/02/2024 ADDENDUM 5
3 08/16/2024 ADDENDUM 7

LAYOUT AND MATERIALS PLAN ENLARGEMENT

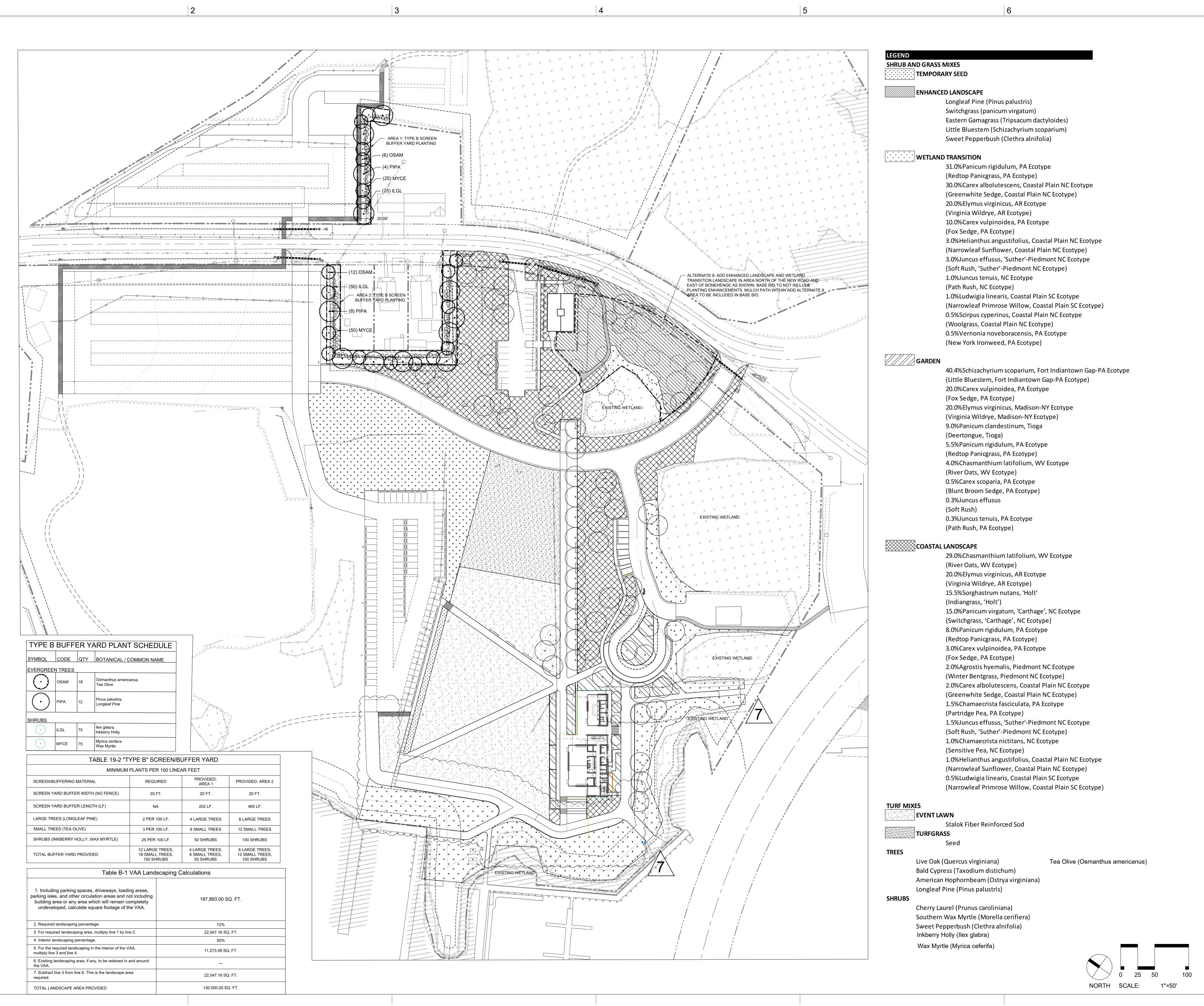
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PROJECT #: L22001

DESIGN: DA, GS

DRAWN: KP

REVIEW: DA



Maritime Education Center

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CN PROJ #: 10145 SCO ID #: 24-27956-01A

NONED

CLARKNEXSEN

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CLARK NEXSEN LICENSE NUMBER C-1028



PROFESSIONAL SEAL



JUNE 7, 2024
BID DOCUMENTS

3 08/16/2024 ADDENDUM 7

1 07/24/2024 ADDENDUM 3
2 08/02/2024 ADDENDUM 5

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KEY PLAN

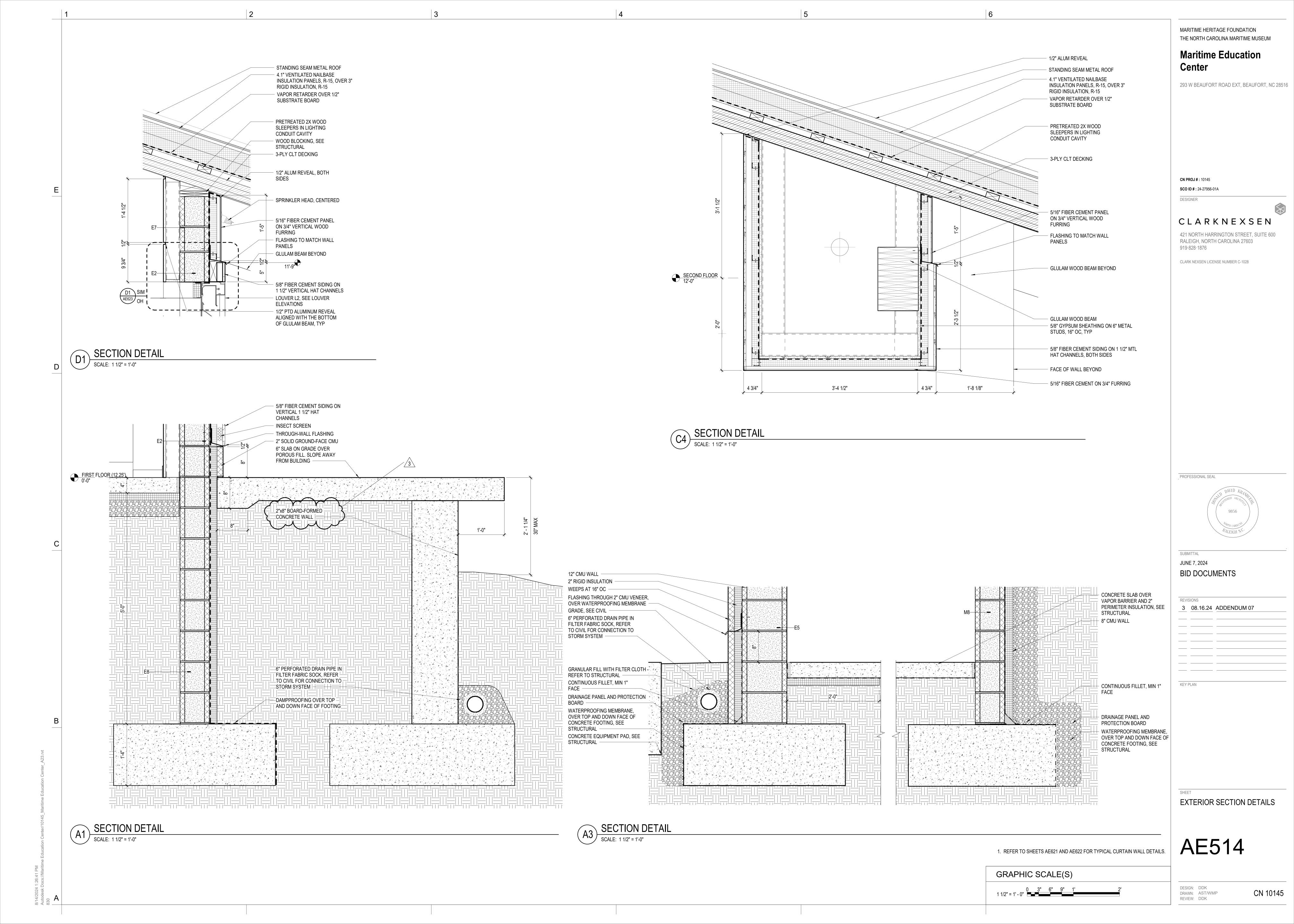
SHEET

OVERALL PLANTING PLAN

L7.00

PROJECT #: L22001

DESIGN: DA, GS
DRAWN: KP
REVIEW: DA



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SECTION 102239 – FOLDING PARTITIONS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Operable Acoustical Panel Partitions - Section includes motorized electrically operated continuously hinged (train) panel type partition, including ceiling track, ceiling guards, and operating hardware. Contractor shall provide labor and materials necessary to install operable partitions in location as indicated on the drawings

B. Related Requirements:

- 1. Section 055000 "Metal Fabrications" for supports that attach supporting tracks to overhead structural system.
- 2. Section 092916 "Non-Structural Metal Framing" for construction around the ceiling track
- 3. Electrical and communications Sections for electrical service and connections for motor operators, controls, and limit switches and for system disconnect switches.

1.2 DEFINITIONS

- A. NIC: Noise Isolation Class.
- B. NRC: Noise Reduction Coefficient.
- C. STC: Sound Transmission Class.

1.3 PRE-INSTALLATION MEETINGS

A. Pre-installation Conference: Conduct conference at Project site, at a minimum of 2-weeks prior to the start of installation.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product, include material descriptions, construction details, finishes, installation details and operating instructions for each type of operable partition, component and accessory specified.
- B. Shop Drawings: For operable panel partitions.
 - 1. Include plans, elevations, sections, details, and attachments to other work.

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- 2. Indicate stacking and operating clearances. Indicate location and installation requirements for hardware and track, blocking, and direction of travel.
- 3. Include dimensions, weights, conditions at openings and at storage areas, and required installation, and storage clearances.
- 4. Include diagrams for power, signal, and control wiring.
- C. Samples for Initial Selection: For each type of exposed material, finish, covering, or facing. Selection samples shall be provided demonstrating the manufacturer's full range of finishes available.
 - 1. Include Samples of accessories involving color selection.
- D. Samples for Verification: For each type of exposed material, finish, covering, or facing, prepared on Samples of size indicated below:
 - 1. Textile Facing Material: Provide minimum 24-inch square section of carpet from dye lot to be used for the Work, with specified treatments applied. Show complete pattern repeat.
 - 2. Vinyl Wallcovering Facing Material: Manufacturer's standard-size unit, not less than 24 inches square.
 - 3. Panel Edge Material: Not less than 3 inches long.
 - 4. Hardware: One of each exposed door-operating device.
- E. Delegated-Design Submittal: For operable panel partitions.
 - 1. Include design calculations for seismic restraints that brace tracks to structure above.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Partition track, track supports and bracing, switches, turning space, and storage layout.
 - 2. Suspended ceiling components.
 - 3. Structural members to which suspension systems are attached.
 - 4. Size and location of initial access modules for acoustical tile.
 - 5. Items penetrating finished ceiling, including the following:
 - a. Lighting fixtures.
 - b. HVAC ductwork, outlets, and inlets.
 - c. Speakers.
 - d. Sprinklers.
 - e. Smoke detectors.
- B. Setting Drawings: For embedded items and cutouts required in other work, including support-beam, mounting-hole template.
- C. Qualification Data: For qualified Installer and manufacturer.

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- D. Product Certificates: For each type of operable panel partition.
 - 1. Include approval letter signed by manufacturer acknowledging Owner-furnished panel facing material complies with requirements.
- E. Product Test Reports: For each operable panel partition, for tests performed by a qualified testing agency.
- F. Sample Warranty: For manufacturer's special warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For operable panel partitions to include in maintenance manuals.
 - 1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
 - a. Panel finish facings and finishes for exposed trim and accessories. Include precautions for cleaning materials and methods that could be detrimental to finishes and performance.
 - b. Seals, hardware, track, track switches, carriers, and other operating components.
 - c. Electric operator and controls.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Provide an experienced installer, certified by the operable partition manufacturer as qualified to install the manufacturer's partition system for work similar in material, design, and extent to that indicated for this project. Installer shall have a minimum of 5-years' successful experience on projects of similar scope and complexity.
- B. Manufacturer's Qualifications: Manufacturer's shall have a minimum of 5 years in producing type of operable partitions specified of similar type and complexity.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Protectively package and sequence panels in order for installation. Clearly mark packages and panels with numbering system used on Shop Drawings. Do not use permanent markings on panels.

1.9 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of operable panel partitions that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:

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- a. Faulty operation of operable panel partitions.
- b. Deterioration of metals, metal finishes, and other materials beyond normal use.
- 2. Warranty Period: Ten years from date of Final Acceptance.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design seismic bracing of tracks to structure above.
- B. Acoustical Performance: Provide operable panel partitions tested by a qualified testing agency for the following acoustical properties according to test methods indicated:
 - 1. Sound-Transmission Requirements: Operable panel partition assembly tested for laboratory sound-transmission loss performance according to ASTM E 90, determined by ASTM E 413, and rated for not less than the STC indicated.
 - 2. Noise-Reduction Requirements: Operable panel partition assembly, identical to partition tested for STC, tested for sound-absorption performance according to ASTM C 423, and rated for not less than the NRC indicated.
 - 3. Noise-Isolation Requirements: Installed operable panel partition assembly, identical to partition tested for STC, tested for NIC according to ASTM E 336, determined by ASTM E 413, and rated for 10 dB less than STC value indicated.
- C. Fire-Test-Response Characteristics: Provide panels with finishes complying with one of the following as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Surface-Burning Characteristics: Comply with ASTM E 84 or UL 723; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.
 - 2. Fire Growth Contribution: Complying with acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 286.
- D. Install panel partition system track capable of supporting imposed loads, with a maximum deflection of L/360 of span.

2.2 MANUFACTURERS

A. Provide product lines of the following manufacturer provided they comply with the requirements of the contract documents.

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- 1. BASIS OF DESIGN: "KWIK-WALL Series 3050 Electrically Operated Continuously Hinged Train Panel"
- 2. Panelfold
- 3. Modernfold

2.3 OPERABLE ACOUSTICAL PARTITIONS

- A. Operable Acoustical Panels: Partition system, including panels, seals, finish facing, suspension system, operators, and accessories.
- B. Panel Operation: Electrically Operated Continuously Hinged, top supported individual panels.
- C. Panel Construction: As required to support panel from suspension components and with reinforcement for hardware attachment. Fabricate panels with tight hairline joints and concealed fasteners. Fabricate panels so finished in-place partition is rigid; level; plumb; aligned, with tight joints and uniform appearance; and free of bow, warp, twist, deformation, and surface and finish irregularities.
- D. Dimensions: Fabricate operable acoustical panel partitions to form an assembled system of dimensions indicated and verified by field measurements.
 - 1. Panel Width: Standard widths.
- E. STC: Not less than 49 per ASTM E90-85.
- F. NRC: Not less than 0.50
- G. NIC: Not less than 42
- H. Panel Weight: Minimum 8.5 lbs./sq. ft. and maximum 12 lbs./sq. ft.
- I. Panel Thickness: Not less than 4 inches.
- J. Panel Materials:
 - 1. Steel Frame: Steel sheet, 16 gauge formed steel with overlapped and welded corners for rigidity. Top channel shall be reinforced to support suspension components. Provide internal steel stiffeners as required for backing installation.
 - 1. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use, corrosion resistance, and finish indicated; ASTM B221 for extrusions; manufacturer's standard strengths and thicknesses for type of use.
 - 2. Steel Face/Liner Sheets: Rolled formed steel wrapping around panel edge, with panel skins lock-formed and welded directly to the frame for unitized construction.
 - 3. Gypsum Board: Material as required for backing and to achieve specified acoustical ratings, per ASTM C 1396.
 - 4. Cement Board: ASTM C 1288.
- K. Panel Closure: Manufacturer's standard unless otherwise indicated.

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L. Hardware: Manufacturer's standard as required to operate operable panel partition and accessories; with decorative, protective finish.

2.4 SEALS

- A. General: Provide seals that produce operable panel partitions complying with performance requirements and the following:
 - 1. Manufacturer's standard seals unless otherwise indicated.
 - 2. Seals made from materials and in profiles that minimize sound leakage.
 - 3. Seals fitting tight at contact surfaces and sealing continuously between adjacent panels and between operable panel partition perimeter and adjacent surfaces, when operable panel partition is extended and closed.
- B. Vertical Seals: Deep-nesting, interlocking astragals mounted on each edge of panel, with continuous PVC acoustical seal.
- C. Horizontal Top Seals: PVC-faced, mechanical, retractable, constant-force-contact seal exerting uniform constant pressure on track when extended.
- D. Horizontal Bottom Seals: PVC-faced, mechanical, retractable, constant-force-contact seal exerting uniform constant pressure on floor when extended, ensuring horizontal and vertical sealing and resisting panel movement.
 - 1. Mechanically Operated for Acoustical Panels: Extension and retraction of bottom seal by operating handle or built-in operating mechanism, with operating range not less than 1-1/2 inches between retracted seal and floor finish.

2.5 PANEL FINISH FACINGS

- A. General: Provide finish facings for panels that comply with indicated fire-test-response characteristics and that are factory applied to operable panel partitions with appropriate backing, using mildew-resistant non-staining adhesive as recommended by facing manufacturer's written instructions.
 - 1. Apply one-piece, seamless facings free of air bubbles, wrinkles, blisters, and other defects, with edges tightly butted, and with no gaps or overlaps. Tightly secure and conceal raw and selvage edges of facing for finished appearance.
 - 2. Where facings with directional or repeating patterns or directional weave are indicated, mark facing top and attach facing in same direction.

B. Provide panel finishes as follows:

1. On panels, provide vinyl coated fabric wall covering from the finished floor to 96-inches above finished floor. From 96-inches and above, provide the carpet wall covering. Provide this configuration on both sides of the panel.

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- C. Vinyl-Coated Fabric Wall Covering: Manufacturer's standard, mildew-resistant, washable, vinyl-coated fabric wall covering; complying with CFFA-W-101-D for type indicated; Class A.
 - 1. Total Weight: 20 ounces per square yard
 - 2. Antimicrobial Treatment: Additives capable of inhibiting growth of bacteria, fungi, and veasts.
 - 3. Color/Pattern: As selected by Architect from manufacturer's full range of offerings.
- D. Carpet Wall Covering: Manufacturer's standard non-woven, needle-punched carpet with fibers fused to backing, from same dye lot, treated to resist stains.
 - 1. Color/Pattern: Acousti-rib
- E. Paint: Manufacturer's standard factory painted finish.
 - 1. Color: As selected by Architect from manufacturer's full range
- F. Cap-Trimmed Edges: Protective perimeter-edge trim with tight hairline joints concealing edges of panel and finish facing, finished as follows:
 - 1. Aluminum: Finished with manufacturer's standard clear anodic finish.

2.6 SUSPENSION SYSTEMS

- A. Tracks: Aluminum with adjustable steel hanger rods for overhead support, designed for operation, size, and weight of operable panel partition indicated. Size track to support partition operation and storage without damage to suspension system, operable panel partitions, or adjacent construction. Limit track deflection to no more than 1/360 between bracket supports. Provide a continuous system of track sections and accessories to accommodate configuration and layout indicated for partition operation and storage.
 - 1. Panel Guide: Aluminum guide on both sides of the track to facilitate straightening of the panels; finished with factory-applied, decorative, protective finish.
 - 2. Head Closure Trim: As required for acoustical performance; with factory-applied, decorative, protective finish.
- B. Carriers: Trolley system as required for configuration type, size, and weight of partition and for easy operation; with ball-bearing wheels.
 - 1. For each panel, provide four independently replaceable steel wheels and tires with thrust type roller bearings, and layout indicated for operable panel partitions, and compatible with partition assembly specified. Fabricate track intersections and switches from steel or aluminum.
- C. Track Intersections, Switches, and Accessories: As required for operation, storage, track configuration, and layout indicated for operable panel partitions, and compatible with partition assembly specified. Fabricate track intersections and switches from steel or aluminum.

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- 1. Curve-and-Diverter Switches: Allow radius turns to divert panels to an auxiliary track.
- 2. Center carrier stop.
- D. Aluminum Finish: Mill finish or manufacturer's standard, factory-applied, decorative finish unless otherwise indicated.

2.7 ELECTRIC OPERATORS

- A. Factory-assembled electric operation system of size and capacity recommended and provided by operable panel partition manufacturer for partition specified; with electric motor and factory-prewired motor controls, speed reducer, chain drive, control stations, control devices, and accessories required for operation. Include wiring from control stations to motor. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
- B. Comply with NFPA 70.
- C. Control Equipment: Comply with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6.
- D. Motor Electrical Characteristics:
 - 1. Horsepower: Manufacturer's standard
 - 2. Volts: 208
 - 3. Phase: Single phase
 - 4. Hertz: 60.
- E. Control Stations: Two single-key-operated, constant-pressure control stations located remotely from each other on opposite sides and opposite ends of partition run. Wire in series to require simultaneous activation of both key stations to operate partition. Each three-position control station labeled "Open," "Close," and "Stop." Furnish two keys per station.
- F. Obstruction-Detection Devices: Equip each motorized operable panel partition with indicated automatic safety sensor that causes operator to immediately stop and reverse direction.
 - 1. Sensor Edge: Contact-pressure-sensitive safety edge along partition's leading edge.
 - 2. Sensor Mat: Electrically operated, contact-weight-sensitive safety mat in storage pocket area.
 - 3. Infrared Sensor System: Designed to detect an obstruction in partition's path and sound an audible alarm, without obstruction contacting partition.
- G. Limit Switches: Adjustable switches, interlocked with motor controls and set to automatically stop operable panel partition at fully extended and fully stacked positions.
- H. Emergency Release Mechanism: Quick disconnect-release of electric-motor drive system, permitting manual operation in event of operating failure.
- I. Electric Interlock: Equip each motorized operable panel partition with electric interlocks at locations indicated, to prevent operation of operable panel partition under the following conditions:

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- 1. On storage pocket door, to prevent operation if door is not in fully open position.
- 2. On partitions at location of convergence by another partition, to prevent operation if merging partitions are in place.

2.8 ACCESSORIES

- A. Storage Pocket Door: Full height at end of partition runs to conceal stacked partition; of same materials, finish, construction, thickness, and acoustical qualities as panels; complete with operating hardware and acoustical seals at soffit, floor, and jambs. Hinges in finish to match other exposed hardware.
 - 1. Manufacturer's standard method to secure storage pocket door in closed position.
 - 2. Rim Lock: Deadlock to receive cylinder, to secure storage pocket door in closed position. Provide two keys per lock.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine flooring, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable panel partitions.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Comply with ASTM E 557 except as otherwise required by operable panel partition manufacturer's written installation instructions.
- B. Install operable panel partitions and accessories after other finishing operations, including painting, have been completed in area of partition installation.
- C. Install panels from marked packages in numbered sequence indicated on Shop Drawings.
- D. Broken, cracked, chipped, deformed, or unmatched panels are not acceptable.
- E. Light-Leakage Test: Illuminate one side of partition installation and observe vertical joints and top and bottom seals for voids. Adjust partitions for alignment and full closure of vertical joints and full closure along top and bottom seals.

3.3 ADJUSTING

A. Adjust operable panel partitions, hardware, and other moving parts to function smoothly, and lubricate as recommended by manufacturer.

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B. Adjust storage pocket doors to operate smoothly and easily, without binding or warping.

3.4 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain operable panel partitions.

END OF SECTION 102236

FOLDING PARTITIONS

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SECTION 113034 - CEILING FAN

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Ceiling Fans.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include installation details, material descriptions, dimensions of individual components, and finishes for each appliance.
 - 2. Include operating characteristics and electrical characteristics.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer.
- B. Product Certificates: For each type of appliance.
- C. Field quality-control reports.
- D. Sample Warranties: For manufacturers' special warranties.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For each ceiling fan to include in operation and maintenance manuals.

1.6 WARRANTY

A. Warranties: Manufacturer agrees to repair or replace components that fail in materials or workmanship within specified warranty period.

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1. Warranty Period: Five years from date of Final Acceptance.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Accessibility: Where ceiling fan controls are indicated to comply with accessibility requirements, comply with applicable provisions in the DOJ's 2010 ADA Standards for Accessible Design, the ABA standards of the Federal agency having jurisdiction and ICC A117.1

2.2 CEILING FANS:

A. FAN 1

- 1. <u>Manufacturers:</u> Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Basis of Design: Modern Forms; Wynd.
 - b. Hunter Fan; Downtown Outdoor.
 - c. Modern Forms; Aura.
- 2. Dimensions:
 - a. Width: As indicated on Drawings
- 3. Electric Power Supply: As indicated on Drawings.
- 4. Downrod: Refer to drawings for information.
- 5. Controls: Wall mount controller.
- 6. Material: Manufacturer's standard.
 - a. Color/Finish: black.

B. FAN 2

- 1. <u>Manufacturers:</u> Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Basis of Design: Hinkley; Chet.
 - b. Modern Forms; Vox
 - c. Wind River; Mini Indoor/Outdoor.
- 2. Dimensions:

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- a. Width: As indicated on Drawings
- 3. Electric Power Supply: As indicated on Drawings
- 4. Controls: Wall mount controller.
- 5. Material: Manufacturer's standard.
 - a. Color/Finish: black.

2.3 GENERAL FINISH REQUIREMENTS

- A. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, power connections, and other conditions affecting installation and performance of residential appliances.
- B. Examine walls, ceilings, and roofs for suitable conditions where products will be installed.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install according to manufacturer's written instructions.
- B. Securely anchor units with concealed fasteners. Verify that clearances are adequate for proper functioning and that rough openings are completely concealed.

3.3 FIELD QUALITY CONTROL

A. Perform the following tests and inspections:

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- 1. Perform visual, mechanical, and electrical inspection and testing for each fixture according to manufacturers' written recommendations. Certify compliance with each manufacturer's performance parameters.
- 2. Operational Test: After installation, start units to confirm proper operation.
- 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and components.
- B. A fixture will be considered defective if it does not pass tests and inspections.
- C. Prepare test and inspection reports.

3.4 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain fixtures.

END OF SECTION 113034