AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
	1		34

2. AMENDMENT/MODIFICAITON NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicble)
AMENDMENT NO. 0009	08/11/26		25-0010

6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE
NAVFAC Mid-Atlantic Resident Officer in Charge of Construction 1107A Birch Street Camp Lejeune, NC 28547-2521	N40085	See Item 6	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

(X) | 9A. AMENDMENT OF SOLICIATION NO.

x | N40085-26-R-9050

9B. DATED (SEE ITEM 11)

07/06/26

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 11)

CODE | FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[x] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [x] is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a)By completing items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPIRATION DATA (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

25-0010, Repair BEQ G702/G703
Amendment 0009, Answer Request for Information and Provide Updated Documents

The time and date for receipt of proposals remains 20 August 2026 at 1PM EST.

This amendment should be acknowledged when your proposal is submitted. Failure to acknowledge the amendment may constitute grounds for rejection of a proposal.

See Continuation Page(s)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED

CONTINUATION SHEET

1. **QUESTION**: We have checked several window manufactures and can not find one that has a window that projects to the interior that has been tested for large missile impact.
Will you consider changing to awning windows that project to the exterior.

ANSWER: Section 08 51 13, Paragraph 2.1.1. change "hopper" to "awning". Also, Sheets A-201, A-202, A-203 and Sheet A-603, Window Marks A and B, change operable windows to awning function in lieu of hopper function. See updated documents below.

2. All other terms and conditions remain unchanged.

SECTION 08 51 13

ALUMINUM WINDOWS
05/19

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)

AAMA 701/702	(2011) Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals
AAMA 901	(2016) Voluntary Specification for Rotary & Linear Operators in Window Applications
AAMA 907	(2015) Voluntary Specification for Corrosion Resistant Coatings on Carbon Steel Components Used in Windows, Doors and Skylights
AAMA 1503	(2009) Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections
AAMA 2605	(2022) Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
AAMA WSG.1	(1995) Window Selection Guide
AAMA/WDMA/CSA 101/I.S.2/A440	(2017) North American Fenestration Standard/Specification for Windows, Doors, and Skylights

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ASHRAE 169	(2013) Climate Data for Building Design Standards

ASTM INTERNATIONAL (ASTM)

ASTM E1886	(2019) Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
ASTM E1996	(2017) Standard Specification for Performance of Exterior Windows, Curtain

	Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

NATIONAL FENESTRATION RATING COUNCIL (NFRC)

NFRC 100	(2020) Procedure for Determining Fenestration Product U-Factors
NFRC 200	(2020) Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 101	(2024) Life Safety Code

SCREEN MANUFACTURERS ASSOCIATION (SMA)

SMA 1004	(1987; R 1998) Aluminum Tubular Frame Screens for Windows
SMA 1201	(R 2013) Specifications for Insect Screens for Windows, Sliding Doors and Swinging Doors

1.2 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for Contractor Quality Control approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Windows; G

Fabrication Drawings

SD-03 Product Data

Windows; G

Recycled Content of Aluminum Windows; S

Hardware; G

Fasteners; G

Window Performance; G

Thermal-Barrier Windows; G

Mullions; G

Screens; G

Weatherstripping; G

Accessories; G

Adhesives

Thermal Performance; G

SD-04 Samples

Finish Sample

Window Sample

SD-05 Design Data

Structural Calculations for Deflection; G

Design Analysis; G

SD-06 Test Reports

Minimum Condensation Resistance Factor

Windborne-Debris-Impact Performance

SD-07 Certificates

Engineer's Qualifications

SD-10 Operation and Maintenance Data

Windows, Data Package 1; G

Submit in accordance with Section 01 78 23 OPERATION AND MAINTENANCE DATA.

1.3 QUALITY ASSURANCE

1.3.1 Qualification of Manufacturer

Window manufacturer must specialize in designing and manufacturing the type of aluminum windows specified in this section, and have a minimum of 10 years of documented successful experience. Manufacturer must have the facilities capable of meeting contract requirements, single-source responsibility and warranty.

1.3.2 Shop Drawing Requirements

Take field measurements prior to preparation of drawings and fabrications. Provide drawings that indicate elevations of windows, full-size sections, thickness and gages of metal, fastenings, proposed method of anchoring, size and spacing of anchors, details of construction, method of glazing, details of operating hardware, mullion details, method and materials for weatherstripping, method of attaching screens, stools, casings, sills, trim, installation details, and other related items.

1.3.3 Sample Requirements

1.3.3.1 Finish Sample Requirements

Submit aluminum color chips of color coatings specified.

1.3.3.2 Window Sample Requirements

Submit one full-size corner of each window type proposed for use. Where screens or weatherstripping is required, fit sample with such items that are to be used.

1.3.4 Engineer's Qualifications and Design Data Requirements

Submit calculations to substantiate compliance with deflection requirements. A registered Professional Engineer must provide calculations.

Submit design analysis with calculations showing that the design of each different size and type of aluminum window unit and its anchorage to the structure. Calculations verifying the structural performance of each window proposed for use, under the given loads, must be prepared and signed by a registered professional engineer. Reflect the window components and anchorage devices to the structure, as determined by the design analysis, in the shop drawings. Marine Corps Base Camp Lejeune must resist a 144 mile per hour, ultimate design wind speed, 54 PSF, Risk Category II, Surface Roughness Category C, Exposure Category C lateral load. Comply with UFC 3-301-01 and ASCE 7 as applicable for building system designs and components.

1.3.5 Test Report Requirements

Submit test reports for each type of window attesting that identical windows have been tested and meet the requirements specified herein for conformance to AAMA/WDMA/CSA 101/I.S.2/A440 including test size, and minimum condensation resistance factor (CRF)..

1.3.6 Certification

Each prime window unit must bear the AAMA Label warranting that the product complies with AAMA/WDMA/CSA 101/I.S.2/A440. Certified test reports attesting that the prime window units meet the requirements of AAMA/WDMA/CSA 101/I.S.2/A440, including test size, will be acceptable in lieu of product labeling.

1.4 DELIVERY AND STORAGE

Deliver windows to project site in an undamaged condition. Use care in handling and hoisting windows during transportation and at the jobsite. Store windows and components out of contact with the ground, under a weathertight covering, so as to prevent bending, warping, or otherwise damaging the windows. Repair damaged windows to an "as new" condition as approved. If windows can not be repaired, provide a new unit.

1.5 PERFORMANCE REQUIREMENTS

1.5.1 Wind Loading Design Pressure

Design window components, including mullions, hardware, and anchors, to withstand a wind-loading design pressure of at least 54 pounds per square

foot (psf).

1.5.2 Tests

Test windows proposed for use in accordance with AAMA/WDMA/CSA 101/I.S.2/A440 for the particular type and quality window specified.

Perform tests by a nationally recognized independent testing laboratory equipped and capable of performing the required tests. Submit the results of the tests as certified laboratory reports required herein.

Minimum design load for a uniform-load structural test must be 60 psf.

Test windows in accordance with the applicable portions of the AAMA WSG.1 for air infiltration, water resistance, uniform-load deflection, and uniform-load structural test.

1.6 DRAWINGS

Submit the Fabrication Drawings for aluminum window units showing complete window assembly including hardware, weatherstripping, and subframe assembly details.

1.7 WINDOW PERFORMANCE

Aluminum windows must meet the following performance requirements. Perform testing requirements by an independent testing laboratory or agency.

1.7.1 Structural Performance

Structural test pressures on window units must be for positive load (inward) and negative load (outward). After testing, there will be no glass breakage, permanent damage to fasteners, hardware parts, support arms or actuating mechanisms or any other damage which could cause window to be inoperable. There must be no permanent deformation of any main frame, sash or ventilator member in excess of the requirements established by AAMA/WDMA/CSA 101/I.S.2/A440 for the window types and classification specified in this section.

1.7.2 Air Infiltration

Air infiltration must not exceed the amount established by AAMA/WDMA/CSA 101/I.S.2/A440 for each window type.

1.7.3 Water Penetration

Water penetration must not exceed the amount established by AAMA/WDMA/CSA 101/I.S.2/A440 for each window type.

1.7.4 Thermal Performance

Windows (including frames and glass) will be independently tested and certified with a Solar Heat Gain Coefficient (SHGC) determined according to NFRC 200 procedures and a whole window U-factor determined in accordance with NFRC 100 within the ranges as indicated below according to the ASHRAE 169 Climate Zone of the project location. Provide visual Transmittance (VT) of 0.5 or greater. Submit documentation supporting

compliance with FEMP designated, and Passive House qualifications as applicable.

1.7.4.1 South-Central Climate

Windows installed within Climate Zone 3 will have a U-Factor of 0.30 to 0.46 BTU/h·ft^2·degrees F or less and a SHGC of 0.25 or less.

1.7.5 Life Safety Criteria

Provide windows that conform to NFPA 101 Life Safety Code when rescue and/or second means of escape are indicated.

1.7.6 Windborne-Debris-Impact Performance

Exterior window system including glazing must comply with indicated basis or enhanced protection testing requirements in ASTM E1996 for Wind Zone 2, 140 MPH to 150 MPH in accordance with 1609.2.2, IBC, when tested according to ASTM E1886. Test specimens must be no smaller in width and length than glazing indicated for use on Project and must be installed in same manner as glazing indicated for use on Project.

a. Refer to drawings for classification of window requiring basic or enhanced protection.

b. Large-Missile Test: For glazing located within 30 feet of grade.

1.8 WARRANTY

Provide Manufacturer's standard performance guarantees or warranties that extend beyond a 1 year period.

PART 2 PRODUCTS

2.1 WINDOWS

Maintain visual design concepts by conforming to basic dimensions, sight lines and member profiles detailed in the Instruments of Service. Muntins are full, simulated true divided light. Provide assemblies free of rattles, vibration harmonics, wind whistles and noise resulting from thermal movement, structural movement and wind pressures. Install units and components that account for expansion and contraction of substrates encountered without loosening, weakening or fracturing connections over time. Evacuate water entering unit joints and condensation occurring within assemblies using drain holes and gutters of adequate size. Provide concealed fasteners to the greatest extent practical.

Thicknesses of aluminum sheets and extrusions, alloy and temper are determined by fabrication and assembly properties required. Minimum aluminum characteristics are not less than 22,000 PSI ultimate tensile strength and 16,000 PSI yield strength as determined by ASTM B 221. Overall profile dimensions of unit sections describe the maximum sizes permitted. Increase gauges and thicknesses to resist lateral loadings and achieve performance characteristics required.

Provide prime windows that comply with AAMA/WDMA/CSA 101/I.S.2/A440 and the requirements specified herein. In addition to compliance with AAMA/WDMA/CSA 101/I.S.2/A440, window framing members for each individual light of glass must not deflect to the extent that deflection

perpendicular to the glass light exceeds L/175 of the glass edge length when subjected to uniform loads at specified design pressures. Provide Structural calculations for deflection to substantiate compliance with deflection requirements. Provide windows of types, performance classes, performance grades, combinations, and sizes indicated or specified. Provide aluminum window frames with a minimum recycled content of 20 percent. Provide data identifying percentage of recycled content of aluminum windows. Design windows to accommodate hardware, glass, weatherstripping, screens, and accessories to be furnished. Each window must be a complete factory assembled unit with or without glass installed. Dimensions shown are minimum. Provide windows with insulating glass and thermal break necessary to achieve a minimum Condensation Resistance Factor (CRF) of 56 to 60 when tested in accordance with AAMA 1503. Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907, or other corrosion-resistant material compatible with adjacent materials; designed to smoothly operate, tightly close, and securely lock windows, and sized to accommodate sash weight and dimensions.

2.1.1 Projected Windows (AP)

Type AP-AW- 54. Provide projected awning windows with concealed four bar friction hinges only. Mechanically limit sash operation to prevent passage of a 4 inch sphere. Gear-type rotary hardware to comply with AAMA 901. Provide operators that function without requiring the removal of interior screens.

Provide manual clerestory window wands for high installations. Wand extenders are anodized aluminum in nominal lengths ranging from three feet to twelve feet. Furnish wands with hooked heads for sill mounted cranks. Furnish wands with angled heads for jamb mounted cranks. Furnish an adaptor for each crank to enable wand operation. Provide two wands per floor.

2.1.2 Fixed Windows (FW)

Type FW-AW- 54 (Optional Performance Grade).

2.1.3 Glass and Glazing

Materials are specified in Section 08 81 00 GLAZING.

2.1.4 Caulking and Sealing

Are specified in Section 07 92 00 JOINT SEALANTS.

2.1.5 Weatherstripping

AAMA/WDMA/CSA 101/I.S.2/A440. Provide for all ventilating (operable) sash for all windows. Provide woven wool pile weatherstripping 0.210 inch thick, conforming to AAMA 701/702, or polypropylene multifilament fiber weatherstripping installed in an integral weatherstripping groove in the sash or frame, and flexible polyvinylchloride weatherstripping installed in the sill member.

2.2 FABRICATION

Fabrication of window units must comply with AAMA/WDMA/CSA 101/I.S.2/A440.

2.2.1 Provisions for Glazing

Design windows and rabbets suitable for glass thickness specified. Design sash for outside double glazing and for securing glass with metal beads, glazing clips, glazing channels, or glazing compound. Units must accommodate 1 inch insulated glazing composites.

2.2.2 Impact Resistant Glass

Protect glazed openings in hurricane prone regions with impact resistant glass complying with ASTM E 1886 and ASTM E 1996 as amended by Section 1609.2, IBC. Reference windborne debris regions, ASCE 7.

2.2.3 Fasteners

Use window manufacturer's standard for windows, trim, and accessories. Self-tapping sheet-metal screws are not acceptable for material more than 1/16 inch thick.

2.2.4 Adhesives

Provide joint sealants as specified in Section 07 92 00 JOINT SEALANTS. For interior application of joint sealants, comply with applicable regulations regarding reduced VOC's, and as specified in Section 07 92 00 JOINT SEALANTS.

2.2.5 Drips and Weep Holes

Provide continuous drips over heads of top ventilators. Where fixed windows adjoin ventilators, drips must be continuous across tops of fixed windows. Provide drips and weep holes as required to return water to the outside.

2.2.6 Combination Windows

Windows used in combination must be factory assembled of the same class and grade. Where factory assembly of individual windows into larger units is limited by transportation considerations, prefabricate, match mark, transport, and field assemble.

2.2.7 Mullions and Transom Bars

Provide mullions with a thermal break. Secure mullions and transom bars to adjoining construction and window units in such a manner as to permit expansion and contraction and to form a weathertight joint. Provide mullion covers on the interior and exterior to completely close exposed joints and recesses between window units and to present a neat appearance. Provide special covers over structural support at mullions as indicated.

2.2.8 Accessories

Provide windows complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation.

2.2.8.1 Hardware

AAMA/WDMA/CSA 101/I.S.2/A440. The item, type, and functional characteristics must be the manufacturer's standard for the particular

window type. Provide hardware of suitable design and of sufficient strength to perform the function for which it is used. Equip all operating ventilators with a lock or latching device which can be secured from the inside.

2.2.8.2 Fasteners

Provide concealed anchors of the type recommended by the window manufacturer for the specific type of construction. Anchors and fasteners must be compatible with the window and the adjoining construction. Provide a minimum of three anchors for each jamb located approximately 6 inches from each end and at midpoint.

2.2.8.3 Window Anchors

Anchoring devices for installing windows must be made of aluminum, cadmium-plated steel, stainless steel, or zinc-plated steel conforming to AAMA/WDMA/CSA 101/I.S.2/A440.

2.2.9 Finishes

Comply with NAAMM's "Metal Finishes Manual" for applying and designating finishes. Exposed aluminum surfaces must be factory finished with an organic coating.

2.2.9.1 Organic Coating

Clean and prime exposed aluminum surfaces. Provide a high-performance finish in accordance with AAMA 2605 with total dry film thickness of not less than 1.2 mils.

Window is Bone White, AMS 595A 37875 as indicated in the Marine Corps Base Camp Lejeune, Base Exterior Architectural Plan, Camp Gieger.

2.2.10 Screens

AAMA/WDMA/CSA 101/I.S.2/A440. Provide one insect screen for each operable exterior sash or ventilator. Design screens to be rewirable, easily removable from inside the building, and to permit easy access to operating hardware. Manufacturers standard aluminum frame complying with SMA 1004 or SMA 1201. Fabricate frames with mitered or coped joints or corner extrusion, concealed fasteners and removable PVC spline/anchors concealing edge of frame.

2.2.10.1 Insect Screen

Insect screen mesh to be Aluminum wire fabric, 18x16 mesh of 0.011 inch diameter coated aluminum wire.

2.3 THERMAL-BARRIER WINDOWS

Provide thermal-barrier windows, complete with accessories and fittings, where indicated.

Specify material and construction except as follows:

a. Aluminum alloy must be 6063-T6.

b. Frame construction, including operable sash, must be factory-assembled

and factory-sealed inner and outer aluminum completely separated from metal-to-metal contact. Join assembly by a continuous, concealed, low conductance divider housed in an interlocking extrusion of the inner frame. Metal fasteners, straps, or anchors must not bridge the connection between the inner and outer frame.

c. Operating hardware for each sash must consist of spring-loaded nylon cushion blocks and pin locks designed to lock in predetermined locations.

d. Sash must be completely separated from metal-to-metal contact by means of woven-pile weatherstripping, plastic, or elastomeric separation members.

e. Operating and storm sash must be factory-glazed with the type of glass indicated and of the quality specified in Section 08 81 00 GLAZING.

2.4 MULLIONS

Provide mullions between multiple-window units where indicated.

Provide profiles for mullions and mullion covers, reinforced as required for the specified wind loading, and securely anchored to the adjoining construction. Mullion extrusion will include serrations or pockets to receive weatherstripping, sealant, or tape at the point of contact with each window flange.

Mullion assembly must include aluminum window clamps or brackets screwed or bolted to the mullion and the mullion cover.

Mullion cover must be screw-fastened to the mullion unless otherwise indicated.

Mullion reinforcing members must be fabricated of the materials specified in AAMA/WDMA/CSA 101/I.S.2/A440 and meet the specified design loading.

PART 3 EXECUTION

3.1 INSTALLATION

3.1.1 Method of Installation

Install in accordance with the window manufacturer's printed instructions and details. Build in windows as the work progresses or install without forcing into prepared window openings. Set windows at proper elevation, location, and reveal; plumb, square, level, and in alignment; and brace, strut, and stay properly to prevent distortion and misalignment. Protect ventilators and operating parts against accumulation of dirt and building materials by keeping ventilators tightly closed and locked to frame. Bed screws or bolts in sill members, joints at mullions, contacts of windows with sills, built-in fins, and subframes in mastic sealant of a type recommended by the window manufacturer. Install and caulk windows in a manner that will prevent entrance of water and wind. Fasten insect screens securely in place.

Any materials that show visual evidence of biological growth due to the presence of moisture must not be installed on the building project.

3.1.2 Dissimilar Materials

Where aluminum surfaces are in contact with, or fastened to masonry, concrete, wood, or dissimilar metals, except stainless steel or zinc, protect the aluminum surface from dissimilar materials as recommended in the Appendix to AAMA/WDMA/CSA 101/I.S.2/A440. Do not coat surfaces in contact with sealants after installation with any type of protective material. Do not apply coatings or lacquers to surfaces to which caulking and glazing components must adhere.

3.1.3 Anchors and Fastenings

Make provision for securing units to each other, to masonry, and to other adjoining construction. Windows installed in masonry walls must have head and jamb members designed to recess into masonry wall not less than 7/16 inch.

3.1.4 Adjustments After Installation

After installation of windows and completion of glazing and field painting, adjust all ventilators and hardware to operate smoothly and to provide weathertight sealing when ventilators are closed and locked. Lubricate hardware and operating parts as necessary. Adjust single hung windows to operate with maximum applied force of 25 pounds in either direction, not including breakaway friction force. Verify that products are properly installed, connected, and adjusted.

3.2 CLEANING

Clean interior and exterior surfaces of window units of mortar, plaster, paint spattering spots, and other foreign matter to present a neat appearance, to prevent fouling of weathering surfaces and weather-stripping, and to prevent interference with the operation of hardware. Replace all stained, discolored, or abraded windows that cannot be restored to their original condition with new windows.

-- End of Section --

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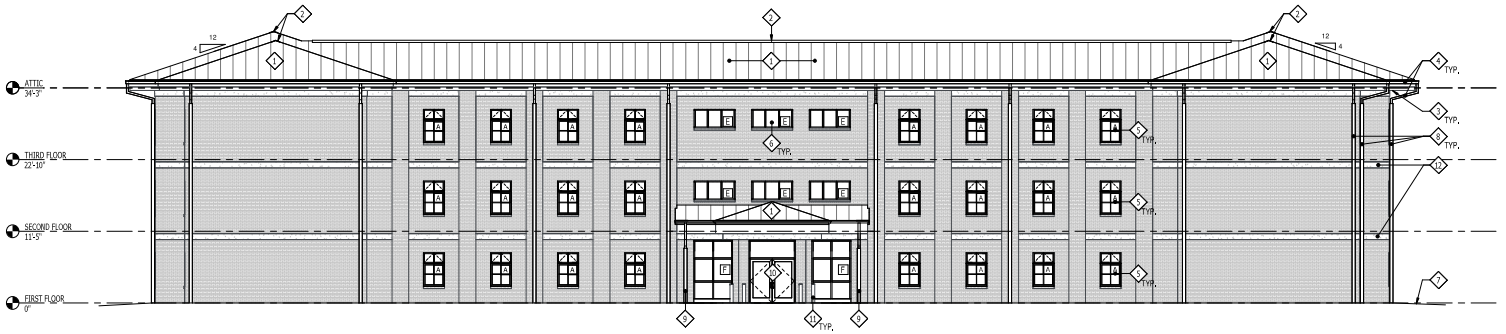
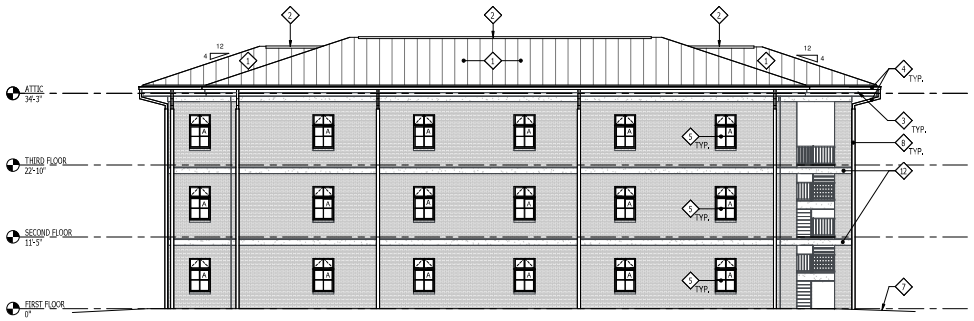
REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
1	WINDOW TYPE REVISIONS	08/06/26	

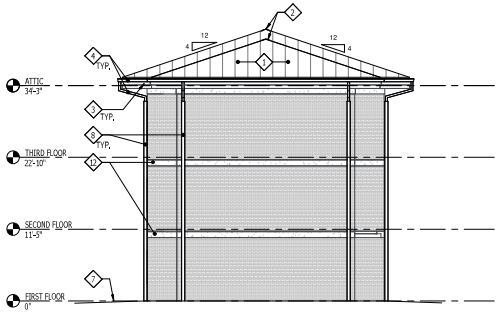


D3 EXTERIOR ELEVATION - CONSTRUCTION - PLAN SOUTH
SCALE: 1/8" = 1'-0"



C2 EXTERIOR ELEVATION - CONSTRUCTION - EAST WING - PLAN EAST
SCALE: 1/8" = 1'-0"

A1 EXTERIOR ELEVATION - CONSTRUCTION - EAST WING - PLAN WEST
SCALE: 1/8" = 1'-0"



A4 EXTERIOR ELEVATION - CONSTRUCTION - EAST WING - PLAN NORTH
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
8' 0 4' 8' 16'

GENERAL CONSTRUCTION NOTES

1. REFERENCE SHEET A-001 FOR SYMBOL LEGEND
2. REFERENCE SHEET A-501 FOR WALL TYPES
3. REFERENCE SHEET A-501 FOR DOOR AND FRAME SCHEDULE
4. REFERENCE SHEET A-80X FOR WINDOW SCHEDULE
5. REFERENCE INTERIOR DESIGN DRAWINGS FOR FINISH SCHEDULE
6. REFERENCE INTERIORS DRAWINGS FOR CASEWORK DIMENSIONS AND DETAILS
7. REFERENCE THE LIFE SAFETY DRAWINGS FOR LOCATIONS OF RATED WALLS AND SMOKE PARTITIONS
8. LOW PRESSURE CLEAN EXTERIOR SURFACES TO REMAIN. PAINT PREVIOUSLY PAINTED SURFACES

CONSTRUCTION KEYNOTES

1. STANDING SEAM METAL ROOF
2. RIDGE VENT
3. SHEET METAL FASCIA
4. PREFINISHED METAL GUTTERS (6"x6") AND DOWNSPOUTS (3"X4"). INSTALL EXPANDED METAL MESH GUARDS AT ALL GUTTERS. SEE DETAILS FOR ADDITIONAL INFORMATION
5. AWNING WINDOW OVER FIXED ALUMINUM WINDOW
6. FIXED ALUMINUM WINDOW
7. FINISH GRADE. REFERENCE CIVIL DRAWINGS
8. GALVANIZED DOWNPOUTS FROM 2'-6" BELOW ROOF BEARING LEVEL TO TOP OF FOOTING. COORDINATE BELOW GRADE DISCHARGE ELEVATION WITH CIVIL DRAWINGS
9. GALVANIZED DOWNPOUTS FROM 8'-9" ABOVE FINISH FLOOR TO TOP OF FOOTING BELOW. COORDINATE LEVEL BELOW GRADE WITH CIVIL DRAWINGS
10. ALUMINUM STOREFRONT ENTRANCE
11. EXISTING BOLLARD TO REMAIN, SAND, CLEAN, AND PREPARE BOLLARDS TO RECEIVE NEW FINISH PAINT COATING
12. HORIZONTAL MASONRY ACCENT BAND AND FLASHING. SEE STRUCTURAL PLANS FOR REPAIR OF MASONRY BAND AND AS/A-503 FOR ADDITIONAL INFORMATION

ELEVATION LEGEND

- FACE BRICK
- CAST IN PLACE CONCRETE
- LAMINATED INSULATED GLASS

DARDEN J. EURE III
Beaufort
NEW BERN NC
23 JULY 2026

MBF ARCHITECTS P.A.
CERT. NO. 50679
NEW BERN NC

MBFA NO. 2506

mbf architects pa

A-201

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G702

EXTERIOR ELEVATIONS - CONSTRUCTION

DES. JAS			
DR. JAS			
CHK. DJE,III			
SUBMITTED BY:			
DESIGN DIR. CHRIS MAAS			
APPROVED: PWO OR OICC Approver	DATE	SIZE E1	CODE IDENT. NO. 80091
SATISFACTORY TO:	DATE		

NAVFAC DRAWING NO. 60043272
CONSTR. CONTR. NO. N40085-26-B-0044
SCALE AS NOTED SPEC. 05-26-0044 SHEET 56 OF 208

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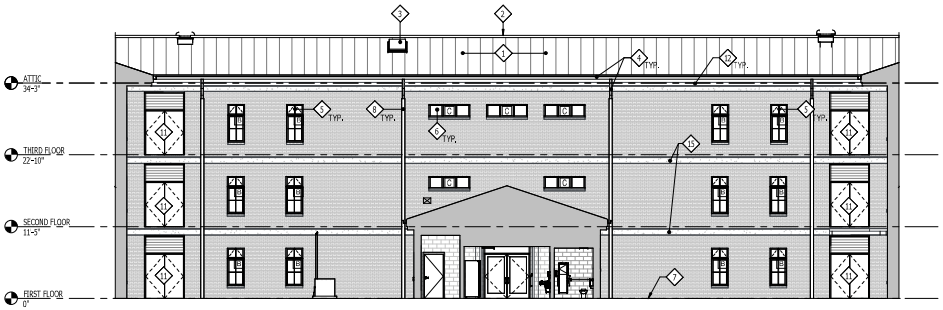
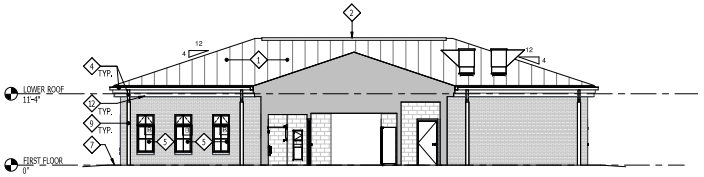
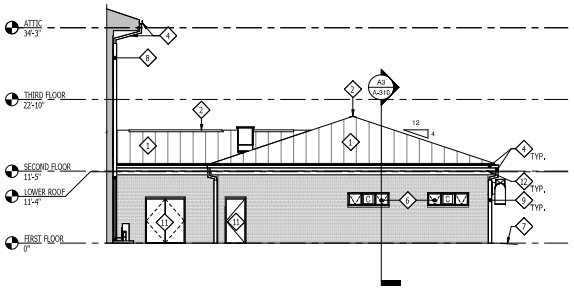
REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
1	WINDOW TYPE REVISIONS	09/09/26	



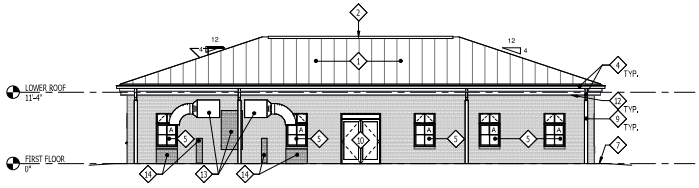
E2 EXTERIOR ELEVATION - CONSTRUCTION - PLAN NORTH
SCALE: 1/8" = 1'-0"



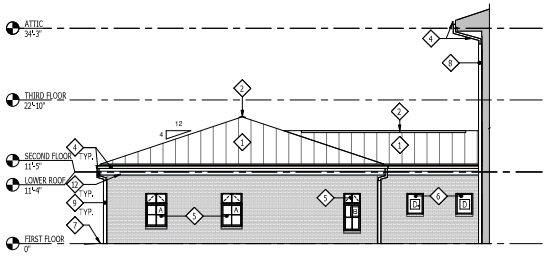
C1 EXTERIOR ELEVATION - CONSTRUCTION - CENTRAL CORE - PLAN SOUTH
SCALE: 1/8" = 1'-0"



C4 EXTERIOR ELEVATION - CONSTRUCTION - CENTRAL CORE - PLAN EAST
SCALE: 1/8" = 1'-0"



A1 EXTERIOR ELEVATION - CONSTRUCTION - CENTRAL CORE - PLAN NORTH
SCALE: 1/8" = 1'-0"



A4 EXTERIOR ELEVATION - CONSTRUCTION - CENTRAL CORE - PLAN WEST
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
8' 0 4' 8' 16'

GENERAL CONSTRUCTION NOTES

1. REFERENCE SHEET A-001 FOR SYMBOL LEGEND
2. REFERENCE SHEET A-501 FOR WALL TYPES
3. REFERENCE SHEET A-601 FOR DOOR AND FRAME SCHEDULE
4. REFERENCE SHEET A-60X FOR WINDOW SCHEDULE
5. REFERENCE INTERIOR DESIGN DRAWINGS FOR FINISH SCHEDULE
6. REFERENCE INTERIORS DRAWINGS FOR CASEWORK DIMENSIONS AND DETAILS
7. REFERENCE THE LIFE SAFETY DRAWINGS FOR LOCATIONS OF RATED WALLS AND SMOKE PARTITIONS
8. LOW PRESSURE CLEAN EXTERIOR SURFACES TO REMAIN. PAINT PREVIOUSLY PAINTED SURFACES

CONSTRUCTION KEYNOTES

1. STANDING SEAM METAL ROOF
2. RIDGE VENT
3. ROOF ACCESS HATCH
4. PREFINISHED METAL GUTTERS (6"x6") AND DOWNSPOUTS (3"X4"). INSTALL EXPANDED METAL MESH GUARDS AT ALL GUTTERS. SEE DETAILS FOR ADDITIONAL INFORMATION
5. AWNING WINDOW OVER FIXED ALUMINUM WINDOW
6. FIXED ALUMINUM WINDOW
7. FINISH GRADE. REFERENCE CIVIL DRAWINGS
8. GALVANIZED DOWNPOUTS FROM 2'-6" BELOW ROOF BEARING LEVEL TO BELOW GRADE. COORDINATE LEVEL BELOW GRADE WITH CIVIL DRAWINGS
9. GALVANIZED DOWNPOUTS FROM 10'-0" ABOVE FINISH FLOOR TO BELOW GRADE. COORDINATE LEVEL BELOW GRADE WITH CIVIL DRAWINGS
10. ALUMINUM STOREFRONT ENTRANCE
11. STEEL DOOR AND FRAME
12. SHEET METAL FASCIA
13. DRYER VENT MECHANICAL EQUIPMENT AND INFILL WALL. COORDINATE WITH MECHANICAL PLANS. INSTALL NEW EQUIPMENT AND INFILL REMAINDER OF WALL OPENING TO MATCH EXISTING
14. INFILL WALL WHERE EXISTING LOUVERS WERE REMOVED. FINISH TO MATCH EXISTING
15. HORIZONTAL MASONRY ACCENT BAND AND FLASHING. SEE STRUCTURAL PLANS FOR REPAIR OF MASONRY BAND AND A4/A-503 FOR ADDITIONAL INFORMATION

ELEVATION LEGEND

- FACE BRICK
- CAST IN PLACE CONCRETE
- LAMINATED INSULATED GLASS

DARDEN J. EURE III
NEW BERN NC
23 JULY 2026

NBA ARCHITECTS PA
CERT. NO. 50679
NEW BERN, NC

mbf architects pa

DES.	JAS
DR.	JAS
CHK.	DJE,III
SUBMITTED BY:	
DESIGN DIR.	CHRIS MAAS
APPROVED: PWO OR OICC	DATE
Approver	
SATISFACTORY TO:	DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G702

EXTERIOR ELEVATIONS - CONSTRUCTION

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
E1	80091	60043273
	CONSTR. CONTR. NO.	N40085-26-B-0044
SCALE AS NOTED	SPEC. 05-26-0044	SHEET 57 OF 208

A-202

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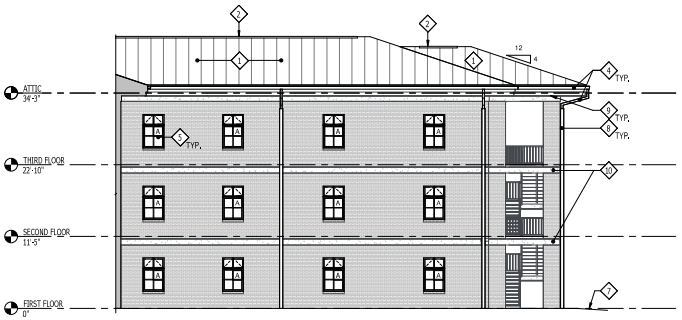
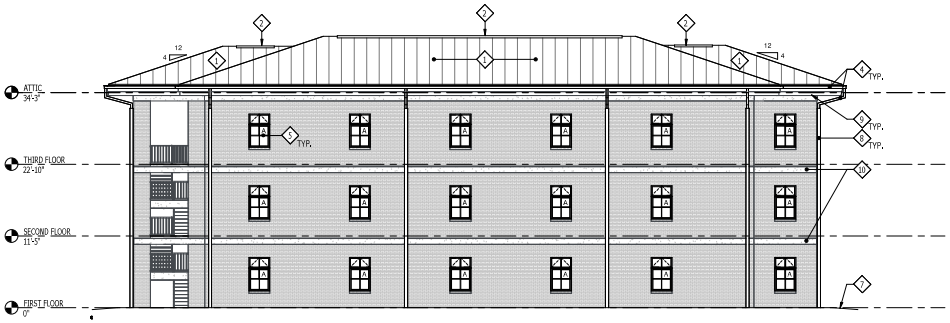


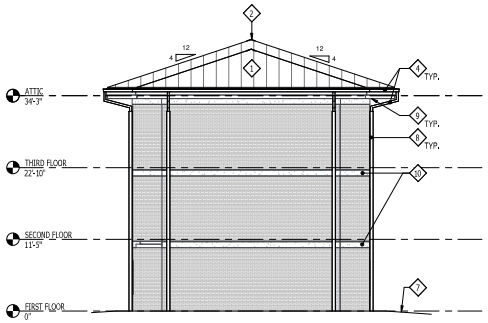
D2 EXTERIOR ELEVATION - CONSTRUCTION - WEST WING - PLAN EAST

SCALE: 1/8" = 1'-0"



C2 EXTERIOR ELEVATION - CONSTRUCTION - WEST WING - PLAN WEST

SCALE: 1/8" = 1'-0"



A2 EXTERIOR ELEVATION - CONSTRUCTION - WEST WING - PLAN NORTH

SCALE: 1/8" = 1'-0"

REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
1	WINDOW TYPE REVISIONS	09/09/26	

GENERAL CONSTRUCTION NOTES

1. REFERENCE SHEET A-001 FOR SYMBOL LEGEND
2. REFERENCE SHEET A-501 FOR WALL TYPES
3. REFERENCE SHEET A-601 FOR DOOR AND FRAME SCHEDULE
4. REFERENCE SHEET A-60X FOR WINDOW SCHEDULE
5. REFERENCE INTERIOR DESIGN DRAWINGS FOR FINISH SCHEDULE
6. REFERENCE INTERIORS DRAWINGS FOR CASEWORK DIMENSIONS AND DETAILS
7. REFERENCE THE LIFE SAFETY DRAWINGS FOR LOCATIONS OF RATED WALLS AND SMOKE PARTITIONS
8. LOW PRESSURE CLEAN EXTERIOR SURFACES TO REMAIN. PAINT PREVIOUSLY PAINTED SURFACES

CONSTRUCTION KEYNOTES

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2. RIDGE VENT
3. ROOF ACCESS HATCH
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9. SHEET METAL FASCIA
10. HORIZONTAL MASONRY ACCENT BAND AND FLASHING. SEE STRUCTURAL PLANS FOR REPAIR OF MASONRY BAND AND AS A-503 FOR ADDITIONAL INFORMATION

ELEVATION LEGEND

- FACE BRICK
- CAST IN PLACE CONCRETE
- LAMINATED INSULATED GLASS

GRAPHIC SCALE: 1/8"=1'-0"

8' 0 4' 8' 16'

DARDEN J. EURE III
REGISTERED ARCHITECT
NEW BERN NC
23 JULY 2026

NBA ARCHITECTS PA
CERT. NO. 50679
NEW BERN NC

mbf architects pa

A-203

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G702

EXTERIOR ELEVATIONS - CONSTRUCTION

DES.	JAS
DR.	JAS
CHK.	DJE,III
SUBMITTED BY:	
DESIGN DR.	CHRIS MAAS
APPROVED: PWD OR OICC	DATE
Approver	
SATISFACTORY TO:	DATE

SITE	CODE IDENT. NO.	NAVFAC DRAWING NO.
E1	80091	60043274
	CONSTR. CONTR. NO.	N40085-26-B-0044
SCALE AS NOTED	SPEC. 05-26-0044	SHEET 58 OF 208

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REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
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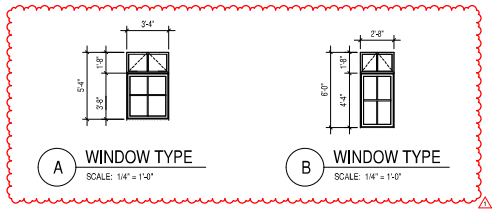
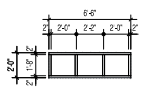


A WINDOW TYPE
SCALE: 1/4" = 1'-0"

B WINDOW TYPE
SCALE: 1/4" = 1'-0"



C WINDOW TYPE
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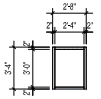

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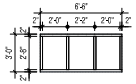
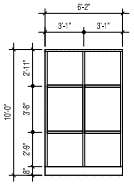
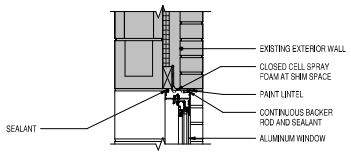


E WINDOW TYPE E
SCALE: 1/4" = 1'-0"

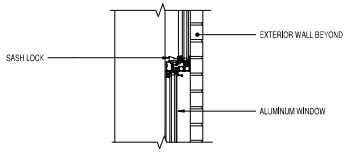


F WINDOW TYPE
SCALE: 1/4" = 1'-0"

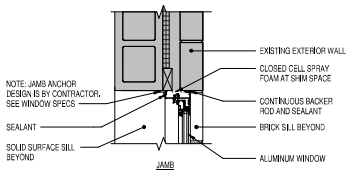
WINDOW SCHEDULE			
MARK	MATERIAL	WIDTH	HEIGHT
A	Aluminum	3'-4"	5'-4"
B	Aluminum	2'-8"	6'-0"
C	Aluminum	6'-6"	2'-0"
D	Aluminum	2'-8"	3'-4"
E	Aluminum	6'-6"	3'-0"
F	Aluminum	6'-2"	10'-0"



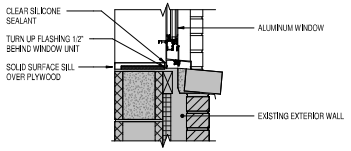
HEAD



MEETING RAIL

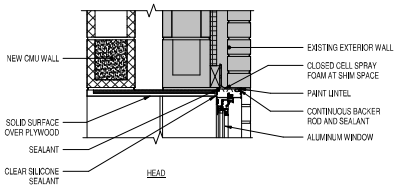


JAMB



SILL

A1 ALUMINUM WINDOW DETAIL
SCALE: 1 1/2" = 1'-0"



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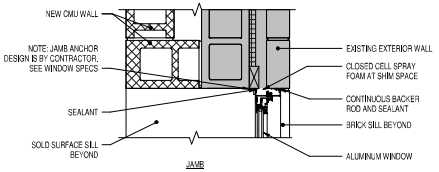
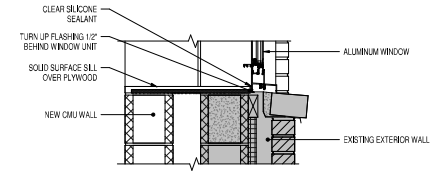


JAMB



SILL

A2 ALUMINUM WINDOW DETAIL
SCALE: 1 1/2" = 1'-0"

COLORS INDUSTRIAL AREA

NOTES:
1. REFERENCE MCB CAMP LEJEUNE, BASE EXTERIOR ARCHITECTURAL PLAN (BEAP) 2010, SECTION 4,2,2 INDUSTRIAL AREA

   HTTP://WWW.LEJEUNE.MARINES.MIL/PORTALS/27/DOCUMENTS/DD/BEAP/BEAP_CONTENTS_HTML#_TOC276453676
2. FINAL COLOR SELECTIONS MUST BE APPROVED BY THE CONTRACTING OFFICER

B6 EXTERIOR MATERIALS SCHEDULE
SCALE: NOT TO SCALE

GRAPHIC SCALE: 1/4"=1'-0"
4" 0 2" 4" 8"

DARDEN J. EURE III
NEW BERN NC
23 JULY 2026

NBC ARCHITECTS PA
CERT. NO. 50679
NEW BERN, NC

mbf architects pa

DES.	JAS
DR.	JAS
CHK.	DJE,III
SUBMITTED BY:	
DESIGN DIR.	CHRIS MAAS
APPROVED: PWO OR OIC	DATE
SATISFACTORY TO:	DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G702

WINDOW TYPES AND DETAILS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
E1	80091	60043287
SCALE: AS NOTED	SPEC. 05-26-0044	CONSTR. CONTR. NO. N40085-26-B-0044

SHEET 71 OF 208

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SECTION 08 51 13

ALUMINUM WINDOWS
05/19

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)

AAMA 701/702	(2011) Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals
AAMA 901	(2016) Voluntary Specification for Rotary & Linear Operators in Window Applications
AAMA 907	(2015) Voluntary Specification for Corrosion Resistant Coatings on Carbon Steel Components Used in Windows, Doors and Skylights
AAMA 1503	(2009) Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections
AAMA 2605	(2022) Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
AAMA WSG.1	(1995) Window Selection Guide
AAMA/WDMA/CSA 101/I.S.2/A440	(2017) North American Fenestration Standard/Specification for Windows, Doors, and Skylights

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ASHRAE 169	(2013) Climate Data for Building Design Standards

ASTM INTERNATIONAL (ASTM)

ASTM E1886	(2019) Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
ASTM E1996	(2017) Standard Specification for Performance of Exterior Windows, Curtain

	Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

NATIONAL FENESTRATION RATING COUNCIL (NFRC)

NFRC 100	(2020) Procedure for Determining Fenestration Product U-Factors
NFRC 200	(2020) Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 101	(2024) Life Safety Code

SCREEN MANUFACTURERS ASSOCIATION (SMA)

SMA 1004	(1987; R 1998) Aluminum Tubular Frame Screens for Windows
SMA 1201	(R 2013) Specifications for Insect Screens for Windows, Sliding Doors and Swinging Doors

1.2 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for Contractor Quality Control approval. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Windows; G

Fabrication Drawings

SD-03 Product Data

Windows; G

Recycled Content of Aluminum Windows; S

Hardware; G

Fasteners; G

Window Performance; G

Thermal-Barrier Windows; G

Mullions; G

Screens; G

Weatherstripping; G

Accessories; G

Adhesives

Thermal Performance; G

SD-04 Samples

Finish Sample

Window Sample

SD-05 Design Data

Structural Calculations for Deflection; G

Design Analysis; G

SD-06 Test Reports

Minimum Condensation Resistance Factor

Windborne-Debris-Impact Performance

SD-07 Certificates

Engineer's Qualifications

SD-10 Operation and Maintenance Data

Windows, Data Package 1; G

Submit in accordance with Section 01 78 23 OPERATION AND MAINTENANCE DATA.

1.3 QUALITY ASSURANCE

1.3.1 Qualification of Manufacturer

Window manufacturer must specialize in designing and manufacturing the type of aluminum windows specified in this section, and have a minimum of 10 years of documented successful experience. Manufacturer must have the facilities capable of meeting contract requirements, single-source responsibility and warranty.

1.3.2 Shop Drawing Requirements

Take field measurements prior to preparation of drawings and fabrications. Provide drawings that indicate elevations of windows, full-size sections, thickness and gages of metal, fastenings, proposed method of anchoring, size and spacing of anchors, details of construction, method of glazing, details of operating hardware, mullion details, method and materials for weatherstripping, method of attaching screens, stools, casings, sills, trim, installation details, and other related items.

1.3.3 Sample Requirements

1.3.3.1 Finish Sample Requirements

Submit aluminum color chips of color coatings specified.

1.3.3.2 Window Sample Requirements

Submit one full-size corner of each window type proposed for use. Where screens or weatherstripping is required, fit sample with such items that are to be used.

1.3.4 Engineer's Qualifications and Design Data Requirements

Submit calculations to substantiate compliance with deflection requirements. A registered Professional Engineer must provide calculations.

Submit design analysis with calculations showing that the design of each different size and type of aluminum window unit and its anchorage to the structure. Calculations verifying the structural performance of each window proposed for use, under the given loads, must be prepared and signed by a registered professional engineer. Reflect the window components and anchorage devices to the structure, as determined by the design analysis, in the shop drawings. Marine Corps Base Camp Lejeune must resist a 144 mile per hour, ultimate design wind speed, 54 PSF, Risk Category II, Surface Roughness Category C, Exposure Category C lateral load. Comply with UFC 3-301-01 and ASCE 7 as applicable for building system designs and components.

1.3.5 Test Report Requirements

Submit test reports for each type of window attesting that identical windows have been tested and meet the requirements specified herein for conformance to AAMA/WDMA/CSA 101/I.S.2/A440 including test size, and minimum condensation resistance factor (CRF)..

1.3.6 Certification

Each prime window unit must bear the AAMA Label warranting that the product complies with AAMA/WDMA/CSA 101/I.S.2/A440. Certified test reports attesting that the prime window units meet the requirements of AAMA/WDMA/CSA 101/I.S.2/A440, including test size, will be acceptable in lieu of product labeling.

1.4 DELIVERY AND STORAGE

Deliver windows to project site in an undamaged condition. Use care in handling and hoisting windows during transportation and at the jobsite. Store windows and components out of contact with the ground, under a weathertight covering, so as to prevent bending, warping, or otherwise damaging the windows. Repair damaged windows to an "as new" condition as approved. If windows can not be repaired, provide a new unit.

1.5 PERFORMANCE REQUIREMENTS

1.5.1 Wind Loading Design Pressure

Design window components, including mullions, hardware, and anchors, to withstand a wind-loading design pressure of at least 54 pounds per square

foot (psf).

1.5.2 Tests

Test windows proposed for use in accordance with AAMA/WDMA/CSA 101/I.S.2/A440 for the particular type and quality window specified.

Perform tests by a nationally recognized independent testing laboratory equipped and capable of performing the required tests. Submit the results of the tests as certified laboratory reports required herein.

Minimum design load for a uniform-load structural test must be 60 psf.

Test windows in accordance with the applicable portions of the AAMA WSG.1 for air infiltration, water resistance, uniform-load deflection, and uniform-load structural test.

1.6 DRAWINGS

Submit the Fabrication Drawings for aluminum window units showing complete window assembly including hardware, weatherstripping, and subframe assembly details.

1.7 WINDOW PERFORMANCE

Aluminum windows must meet the following performance requirements. Perform testing requirements by an independent testing laboratory or agency.

1.7.1 Structural Performance

Structural test pressures on window units must be for positive load (inward) and negative load (outward). After testing, there will be no glass breakage, permanent damage to fasteners, hardware parts, support arms or actuating mechanisms or any other damage which could cause window to be inoperable. There must be no permanent deformation of any main frame, sash or ventilator member in excess of the requirements established by AAMA/WDMA/CSA 101/I.S.2/A440 for the window types and classification specified in this section.

1.7.2 Air Infiltration

Air infiltration must not exceed the amount established by AAMA/WDMA/CSA 101/I.S.2/A440 for each window type.

1.7.3 Water Penetration

Water penetration must not exceed the amount established by AAMA/WDMA/CSA 101/I.S.2/A440 for each window type.

1.7.4 Thermal Performance

Windows (including frames and glass) will be independently tested and certified with a Solar Heat Gain Coefficient (SHGC) determined according to NFRC 200 procedures and a whole window U-factor determined in accordance with NFRC 100 within the ranges as indicated below according to the ASHRAE 169 Climate Zone of the project location. Provide visual Transmittance (VT) of 0.5 or greater. Submit documentation supporting

compliance with FEMP designated, and Passive House qualifications as applicable.

1.7.4.1 South-Central Climate

Windows installed within Climate Zone 3 will have a U-Factor of 0.30 to 0.46 BTU/h·ft^2·degrees F or less and a SHGC of 0.25 or less.

1.7.5 Life Safety Criteria

Provide windows that conform to NFPA 101 Life Safety Code when rescue and/or second means of escape are indicated.

1.7.6 Windborne-Debris-Impact Performance

Exterior window system including glazing must comply with indicated basis or enhanced protection testing requirements in ASTM E1996 for Wind Zone 2, 140 MPH to 150 MPH in accordance with 1609.2.2, IBC, when tested according to ASTM E1886. Test specimens must be no smaller in width and length than glazing indicated for use on Project and must be installed in same manner as glazing indicated for use on Project.

a. Refer to drawings for classification of window requiring basic or enhanced protection.

b. Large-Missile Test: For glazing located within 30 feet of grade.

1.8 WARRANTY

Provide Manufacturer's standard performance guarantees or warranties that extend beyond a 1 year period.

PART 2 PRODUCTS

2.1 WINDOWS

Maintain visual design concepts by conforming to basic dimensions, sight lines and member profiles detailed in the Instruments of Service. Muntins are full, simulated true divided light. Provide assemblies free of rattles, vibration harmonics, wind whistles and noise resulting from thermal movement, structural movement and wind pressures. Install units and components that account for expansion and contraction of substrates encountered without loosening, weakening or fracturing connections over time. Evacuate water entering unit joints and condensation occurring within assemblies using drain holes and gutters of adequate size. Provide concealed fasteners to the greatest extent practical.

Thicknesses of aluminum sheets and extrusions, alloy and temper are determined by fabrication and assembly properties required. Minimum aluminum characteristics are not less than 22,000 PSI ultimate tensile strength and 16,000 PSI yield strength as determined by ASTM B 221. Overall profile dimensions of unit sections describe the maximum sizes permitted. Increase gauges and thicknesses to resist lateral loadings and achieve performance characteristics required.

Provide prime windows that comply with AAMA/WDMA/CSA 101/I.S.2/A440 and the requirements specified herein. In addition to compliance with AAMA/WDMA/CSA 101/I.S.2/A440, window framing members for each individual light of glass must not deflect to the extent that deflection

perpendicular to the glass light exceeds L/175 of the glass edge length when subjected to uniform loads at specified design pressures. Provide Structural calculations for deflection to substantiate compliance with deflection requirements. Provide windows of types, performance classes, performance grades, combinations, and sizes indicated or specified. Provide aluminum window frames with a minimum recycled content of 20 percent. Provide data identifying percentage of recycled content of aluminum windows. Design windows to accommodate hardware, glass, weatherstripping, screens, and accessories to be furnished. Each window must be a complete factory assembled unit with or without glass installed. Dimensions shown are minimum. Provide windows with insulating glass and thermal break necessary to achieve a minimum Condensation Resistance Factor (CRF) of 56 to 60 when tested in accordance with AAMA 1503. Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907, or other corrosion-resistant material compatible with adjacent materials; designed to smoothly operate, tightly close, and securely lock windows, and sized to accommodate sash weight and dimensions.

2.1.1 Projected Windows (AP)

Type AP-AW- 54. Provide projected awning windows with concealed four bar friction hinges only. Mechanically limit sash operation to prevent passage of a 4 inch sphere. Gear-type rotary hardware to comply with AAMA 901. Provide operators that function without requiring the removal of interior screens.

Provide manual clerestory window wands for high installations. Wand extenders are anodized aluminum in nominal lengths ranging from three feet to twelve feet. Furnish wands with hooked heads for sill mounted cranks. Furnish wands with angled heads for jamb mounted cranks. Furnish an adaptor for each crank to enable wand operation. Provide two wands per floor.

2.1.2 Fixed Windows (FW)

Type FW-AW- 54 (Optional Performance Grade).

2.1.3 Glass and Glazing

Materials are specified in Section 08 81 00 GLAZING.

2.1.4 Caulking and Sealing

Are specified in Section 07 92 00 JOINT SEALANTS.

2.1.5 Weatherstripping

AAMA/WDMA/CSA 101/I.S.2/A440. Provide for all ventilating (operable) sash for all windows. Provide woven wool pile weatherstripping 0.210 inch thick, conforming to AAMA 701/702, or polypropylene multifilament fiber weatherstripping installed in an integral weatherstripping groove in the sash or frame, and flexible polyvinylchloride weatherstripping installed in the sill member.

2.2 FABRICATION

Fabrication of window units must comply with AAMA/WDMA/CSA 101/I.S.2/A440.

2.2.1 Provisions for Glazing

Design windows and rabbets suitable for glass thickness specified. Design sash for outside double glazing and for securing glass with metal beads, glazing clips, glazing channels, or glazing compound. Units must accommodate 1 inch insulated glazing composites.

2.2.2 Impact Resistant Glass

Protect glazed openings in hurricane prone regions with impact resistant glass complying with ASTM E 1886 and ASTM E 1996 as amended by Section 1609.2, IBC. Reference windborne debris regions, ASCE 7.

2.2.3 Fasteners

Use window manufacturer's standard for windows, trim, and accessories. Self-tapping sheet-metal screws are not acceptable for material more than 1/16 inch thick.

2.2.4 Adhesives

Provide joint sealants as specified in Section 07 92 00 JOINT SEALANTS. For interior application of joint sealants, comply with applicable regulations regarding reduced VOC's, and as specified in Section 07 92 00 JOINT SEALANTS.

2.2.5 Drips and Weep Holes

Provide continuous drips over heads of top ventilators. Where fixed windows adjoin ventilators, drips must be continuous across tops of fixed windows. Provide drips and weep holes as required to return water to the outside.

2.2.6 Combination Windows

Windows used in combination must be factory assembled of the same class and grade. Where factory assembly of individual windows into larger units is limited by transportation considerations, prefabricate, match mark, transport, and field assemble.

2.2.7 Mullions and Transom Bars

Provide mullions with a thermal break. Secure mullions and transom bars to adjoining construction and window units in such a manner as to permit expansion and contraction and to form a weathertight joint. Provide mullion covers on the interior and exterior to completely close exposed joints and recesses between window units and to present a neat appearance. Provide special covers over structural support at mullions as indicated.

2.2.8 Accessories

Provide windows complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation.

2.2.8.1 Hardware

AAMA/WDMA/CSA 101/I.S.2/A440. The item, type, and functional characteristics must be the manufacturer's standard for the particular

window type. Provide hardware of suitable design and of sufficient strength to perform the function for which it is used. Equip all operating ventilators with a lock or latching device which can be secured from the inside.

2.2.8.2 Fasteners

Provide concealed anchors of the type recommended by the window manufacturer for the specific type of construction. Anchors and fasteners must be compatible with the window and the adjoining construction. Provide a minimum of three anchors for each jamb located approximately 6 inches from each end and at midpoint.

2.2.8.3 Window Anchors

Anchoring devices for installing windows must be made of aluminum, cadmium-plated steel, stainless steel, or zinc-plated steel conforming to AAMA/WDMA/CSA 101/I.S.2/A440.

2.2.9 Finishes

Comply with NAAMM's "Metal Finishes Manual" for applying and designating finishes. Exposed aluminum surfaces must be factory finished with an organic coating.

2.2.9.1 Organic Coating

Clean and prime exposed aluminum surfaces. Provide a high-performance finish in accordance with AAMA 2605 with total dry film thickness of not less than 1.2 mils.

Window is Bone White, AMS 595A 37875 as indicated in the Marine Corps Base Camp Lejeune, Base Exterior Architectural Plan, Camp Gieger.

2.2.10 Screens

AAMA/WDMA/CSA 101/I.S.2/A440. Provide one insect screen for each operable exterior sash or ventilator. Design screens to be rewirable, easily removable from inside the building, and to permit easy access to operating hardware. Manufacturers standard aluminum frame complying with SMA 1004 or SMA 1201. Fabricate frames with mitered or coped joints or corner extrusion, concealed fasteners and removable PVC spline/anchors concealing edge of frame.

2.2.10.1 Insect Screen

Insect screen mesh to be Aluminum wire fabric, 18x16 mesh of 0.011 inch diameter coated aluminum wire.

2.3 THERMAL-BARRIER WINDOWS

Provide thermal-barrier windows, complete with accessories and fittings, where indicated.

Specify material and construction except as follows:

a. Aluminum alloy must be 6063-T6.

b. Frame construction, including operable sash, must be factory-assembled

and factory-sealed inner and outer aluminum completely separated from metal-to-metal contact. Join assembly by a continuous, concealed, low conductance divider housed in an interlocking extrusion of the inner frame. Metal fasteners, straps, or anchors must not bridge the connection between the inner and outer frame.

c. Operating hardware for each sash must consist of spring-loaded nylon cushion blocks and pin locks designed to lock in predetermined locations.

d. Sash must be completely separated from metal-to-metal contact by means of woven-pile weatherstripping, plastic, or elastomeric separation members.

e. Operating and storm sash must be factory-glazed with the type of glass indicated and of the quality specified in Section 08 81 00 GLAZING.

2.4 MULLIONS

Provide mullions between multiple-window units where indicated.

Provide profiles for mullions and mullion covers, reinforced as required for the specified wind loading, and securely anchored to the adjoining construction. Mullion extrusion will include serrations or pockets to receive weatherstripping, sealant, or tape at the point of contact with each window flange.

Mullion assembly must include aluminum window clamps or brackets screwed or bolted to the mullion and the mullion cover.

Mullion cover must be screw-fastened to the mullion unless otherwise indicated.

Mullion reinforcing members must be fabricated of the materials specified in AAMA/WDMA/CSA 101/I.S.2/A440 and meet the specified design loading.

PART 3 EXECUTION

3.1 INSTALLATION

3.1.1 Method of Installation

Install in accordance with the window manufacturer's printed instructions and details. Build in windows as the work progresses or install without forcing into prepared window openings. Set windows at proper elevation, location, and reveal; plumb, square, level, and in alignment; and brace, strut, and stay properly to prevent distortion and misalignment. Protect ventilators and operating parts against accumulation of dirt and building materials by keeping ventilators tightly closed and locked to frame. Bed screws or bolts in sill members, joints at mullions, contacts of windows with sills, built-in fins, and subframes in mastic sealant of a type recommended by the window manufacturer. Install and caulk windows in a manner that will prevent entrance of water and wind. Fasten insect screens securely in place.

Any materials that show visual evidence of biological growth due to the presence of moisture must not be installed on the building project.

3.1.2 Dissimilar Materials

Where aluminum surfaces are in contact with, or fastened to masonry, concrete, wood, or dissimilar metals, except stainless steel or zinc, protect the aluminum surface from dissimilar materials as recommended in the Appendix to AAMA/WDMA/CSA 101/I.S.2/A440. Do not coat surfaces in contact with sealants after installation with any type of protective material. Do not apply coatings or lacquers to surfaces to which caulking and glazing components must adhere.

3.1.3 Anchors and Fastenings

Make provision for securing units to each other, to masonry, and to other adjoining construction. Windows installed in masonry walls must have head and jamb members designed to recess into masonry wall not less than 7/16 inch.

3.1.4 Adjustments After Installation

After installation of windows and completion of glazing and field painting, adjust all ventilators and hardware to operate smoothly and to provide weathertight sealing when ventilators are closed and locked. Lubricate hardware and operating parts as necessary. Adjust single hung windows to operate with maximum applied force of 25 pounds in either direction, not including breakaway friction force. Verify that products are properly installed, connected, and adjusted.

3.2 CLEANING

Clean interior and exterior surfaces of window units of mortar, plaster, paint spattering spots, and other foreign matter to present a neat appearance, to prevent fouling of weathering surfaces and weather-stripping, and to prevent interference with the operation of hardware. Replace all stained, discolored, or abraded windows that cannot be restored to their original condition with new windows.

-- End of Section --

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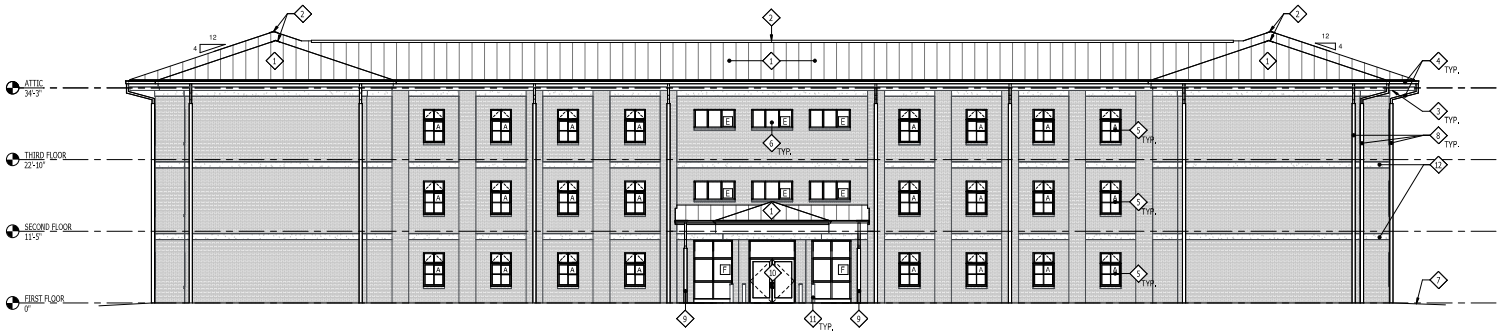
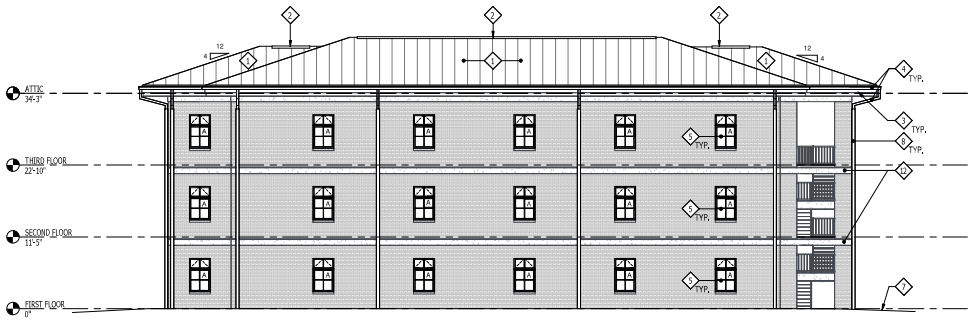
REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
1	WINDOW TYPE REVISIONS	08/06/26	

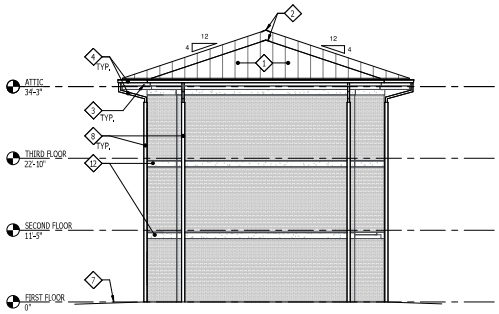


D3 EXTERIOR ELEVATION - CONSTRUCTION - PLAN SOUTH
SCALE: 1/8" = 1'-0"



C2 EXTERIOR ELEVATION - CONSTRUCTION - EAST WING - PLAN EAST
SCALE: 1/8" = 1'-0"

A1 EXTERIOR ELEVATION - CONSTRUCTION - EAST WING - PLAN WEST
SCALE: 1/8" = 1'-0"



A4 EXTERIOR ELEVATION - CONSTRUCTION - EAST WING - PLAN NORTH
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
8' 0 4' 8' 16'

GENERAL CONSTRUCTION NOTES

1. REFERENCE SHEET A-001 FOR SYMBOL LEGEND
2. REFERENCE SHEET A-501 FOR WALL TYPES
3. REFERENCE SHEET A-601 FOR DOOR AND FRAME SCHEDULE
4. REFERENCE SHEET A-60X FOR WINDOW SCHEDULE
5. REFERENCE INTERIOR DESIGN DRAWINGS FOR FINISH SCHEDULE
6. REFERENCE INTERIORS DRAWINGS FOR CASEWORK DIMENSIONS AND DETAILS
7. REFERENCE THE LIFE SAFETY DRAWINGS FOR LOCATIONS OF RATED WALLS AND SMOKE PARTITIONS
8. LOW PRESSURE CLEAN EXTERIOR SURFACES TO REMAIN. PAINT PREVIOUSLY PAINTED SURFACES

CONSTRUCTION KEYNOTES

1. STANDING SEAM METAL ROOF
2. RIDGE VENT
3. SHEET METAL FASCIA
4. PREFINISHED METAL GUTTERS (6"x6") AND DOWNSPOUTS (3"X4"). INSTALL EXPANDED METAL MESH GUARDS AT ALL GUTTERS. SEE DETAILS FOR ADDITIONAL INFORMATION
5. AWNING WINDOW OVER FIXED ALUMINUM WINDOW
6. FIXED ALUMINUM WINDOW
7. FINISH GRADE. REFERENCE CIVIL DRAWINGS
8. GALVANIZED DOWNPOUTS FROM 2'-6" BELOW ROOF BEARING LEVEL TO TOP OF FOOTING. COORDINATE BELOW GRADE DISCHARGE ELEVATION WITH CIVIL DRAWINGS
9. GALVANIZED DOWNPOUTS FROM 8'-9" ABOVE FINISH FLOOR TO TOP OF FOOTING BELOW. COORDINATE LEVEL BELOW GRADE WITH CIVIL DRAWINGS
10. ALUMINUM STOREFRONT ENTRANCE
11. EXISTING BOLLARD TO REMAIN, SAND, CLEAN, AND PREPARE BOLLARDS TO RECEIVE NEW FINISH PAINT COATING
12. HORIZONTAL MASONRY ACCENT BAND AND FLASHING. SEE STRUCTURAL PLANS FOR REPAIR OF MASONRY BAND AND AS/A-503 FOR ADDITIONAL INFORMATION

ELEVATION LEGEND

- FACE BRICK
- CAST IN PLACE CONCRETE
- LAMINATED INSULATED GLASS

DARDEN J. EURE III
Beaufort
NEW BERN NC
29 MAY 2026

MBF ARCHITECTS P.A.
CERT. NO. 50679
NEW BERN NC

A-201

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G703

EXTERIOR ELEVATIONS - CONSTRUCTION

DES.	JAS
DR.	JAS
CHK.	DJE,III
SUBMITTED BY:	
DESIGN DIR.	CHRIS MAAS
APPROVED: PWO OR OICC	DATE
Approver	
SATISFACTORY TO:	DATE

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
E1	80091	60043490
		CONSTR. CONTR. NO. N40085-25-B-0051
SCALE AS NOTED	SPEC. 5-25-0051	SHEET 53 OF 203

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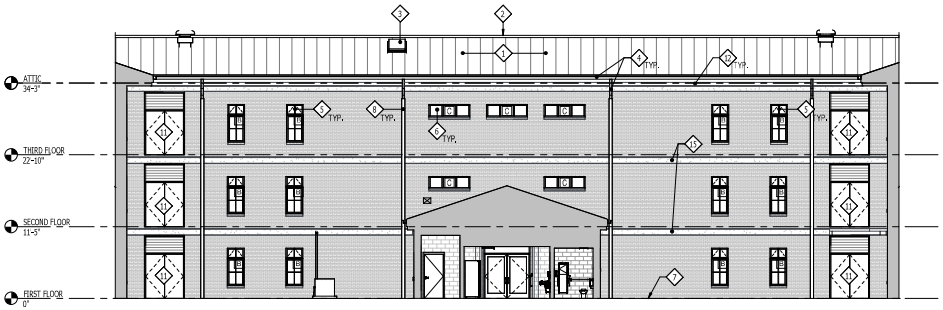
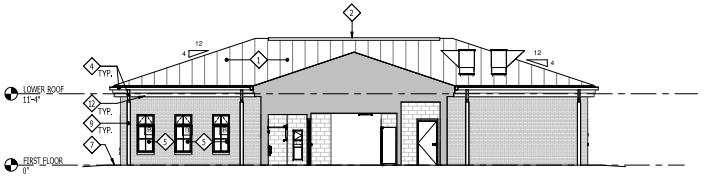
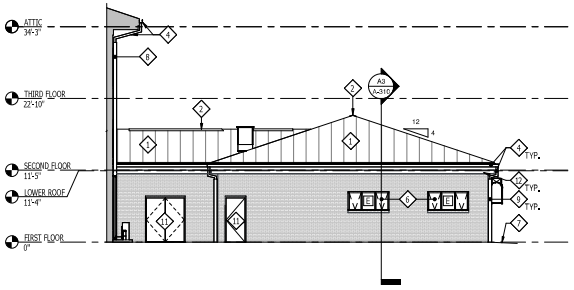


E2 EXTERIOR ELEVATION - CONSTRUCTION - PLAN NORTH
SCALE: 1/8" = 1'-0"



C1 EXTERIOR ELEVATION - CONSTRUCTION - CENTRAL CORE - PLAN SOUTH
SCALE: 1/8" = 1'-0"



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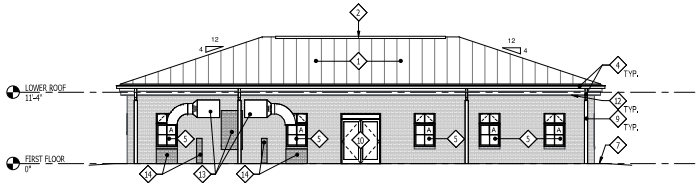
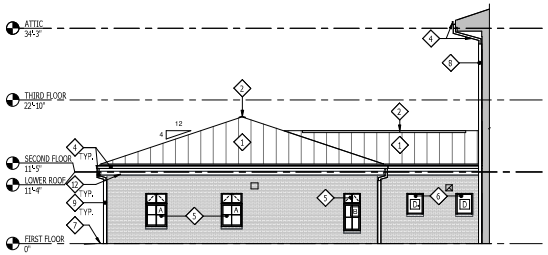


A1 EXTERIOR ELEVATION - CONSTRUCTION - CENTRAL CORE - PLAN NORTH
SCALE: 1/8" = 1'-0"



A4 EXTERIOR ELEVATION - CONSTRUCTION - CENTRAL CORE - PLAN WEST
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
8' 0 4' 8' 16'

REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
1	WINDOW TYPE REVISIONS	09/09/26	

GENERAL CONSTRUCTION NOTES

1. REFERENCE SHEET A-001 FOR SYMBOL LEGEND
2. REFERENCE SHEET A-501 FOR WALL TYPES
3. REFERENCE SHEET A-601 FOR DOOR AND FRAME SCHEDULE
4. REFERENCE SHEET A-60X FOR WINDOW SCHEDULE
5. REFERENCE INTERIOR DESIGN DRAWINGS FOR FINISH SCHEDULE
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7. REFERENCE THE LIFE SAFETY DRAWINGS FOR LOCATIONS OF RATED WALLS AND SMOKE PARTITIONS
8. LOW PRESSURE CLEAN EXTERIOR SURFACES TO REMAIN. PAINT PREVIOUSLY PAINTED SURFACES

CONSTRUCTION KEYNOTES

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9. GALVANIZED DOWNPOUTS FROM 10'-0" ABOVE FINISH FLOOR TO BELOW GRADE. COORDINATE LEVEL BELOW GRADE WITH CIVIL DRAWINGS
10. ALUMINUM STOREFRONT ENTRANCE
11. STEEL DOOR AND FRAME
12. SHEET METAL FASCIA
13. DRYER VENT MECHANICAL EQUIPMENT AND INFILL WALL. COORDINATE WITH MECHANICAL PLANS. INSTALL NEW EQUIPMENT AND INFILL REMAINDER OF WALL OPENING TO MATCH EXISTING
14. INFILL WALL WHERE EXISTING LOUVERS WERE REMOVED. FINISH TO MATCH EXISTING
15. HORIZONTAL MASONRY ACCENT BAND AND FLASHING. SEE STRUCTURAL PLANS FOR REPAIR OF MASONRY BAND AND A4/A-503 FOR ADDITIONAL INFORMATION

ELEVATION LEGEND

- FACE BRICK
- CAST IN PLACE CONCRETE
- LAMINATED INSULATED GLASS

DARDEN J. EURE III
NEW BERN NC
29 MAY 2026

NBA ARCHITECTS PA
CERT. NO. 50679
NEW BERN, NC

mbf architects pa

DES.	JAS
DR.	JAS
CHK.	DJE,III
SUBMITTED BY:	
DESIGN DIR.	CHRIS MAAS
APPROVED: PWO OR OICC	DATE
Approver	
SATISFACTORY TO:	DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G703

EXTERIOR ELEVATIONS - CONSTRUCTION

BASE	CODE IDENT. NO.	NAVFAC DRAWING NO.
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SCALE AS NOTED	SPEC. 5-25-0051	CONSTR. CONTR. NO. N40085-25-B-0051

SHEET 54 OF 233

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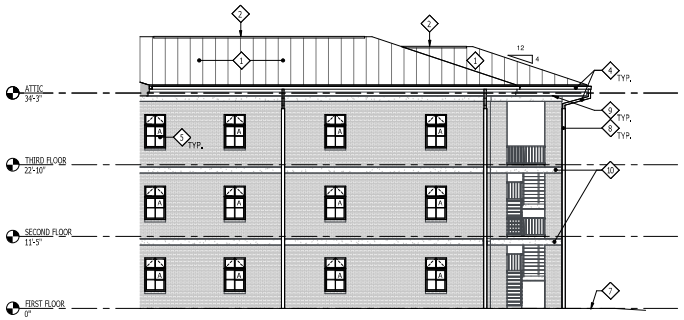
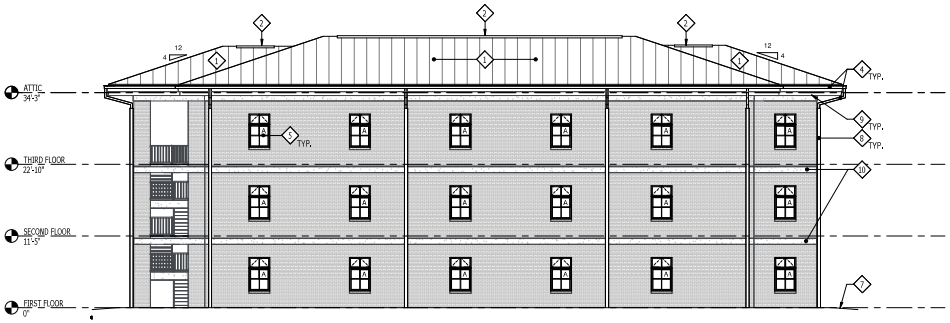
REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
1	WINDOW TYPE REVISIONS	09/09/26	



D2 EXTERIOR ELEVATION - CONSTRUCTION - WEST WING - PLAN EAST

SCALE: 1/8" = 1'-0"



C2 EXTERIOR ELEVATION - CONSTRUCTION - WEST WING - PLAN WEST

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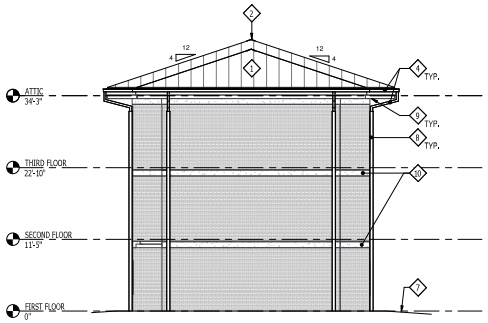

A2 EXTERIOR ELEVATION - CONSTRUCTION - WEST WING - PLAN NORTH

SCALE: 1/8" = 1'-0"

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8. GALVANIZED DOWNPOUTS FROM 2'-6" BELOW ROOF BEARING LEVEL TO BELOW GRADE. COORDINATE LEVEL BELOW GRADE WITH CIVIL DRAWINGS
9. SHEET METAL FASCIA
10. HORIZONTAL MASONRY ACCENT BAND AND FLASHING. SEE STRUCTURAL PLANS FOR REPAIR OF MASONRY BAND AND AS A-503 FOR ADDITIONAL INFORMATION

ELEVATION LEGEND

- FACE BRICK
- CAST IN PLACE CONCRETE
- LAMINATED INSULATED GLASS

GRAPHIC SCALE: 1/8"=1'-0"

8' 0 4' 8' 16'

DARDEN J. EURE III
REGISTERED ARCHITECT
NEW BERN NC
29 MAY 2026

NBA ARCHITECTS PA
CERT. NO. 50679

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DESIGN DR.	CHRIS MAAS
APPROVED: PWO OR OICC	DATE
Approver	
SATISFACTORY TO:	DATE

A-203

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G703

EXTERIOR ELEVATIONS - CONSTRUCTION

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
E1	80091	60043492
	CONSTR. CONTR. NO.	N40085-25-8-0051
SCALE AS NOTED	SPEC. 5-25-0051	SHEET 35 OF 203

\\server\Active\projects\2025\2506 Repair BEQ G703 and HP1805\2506B G703\2506B Design\2506B DWGs\2506B ARCH 2023 G703-CENTRAL.rvt
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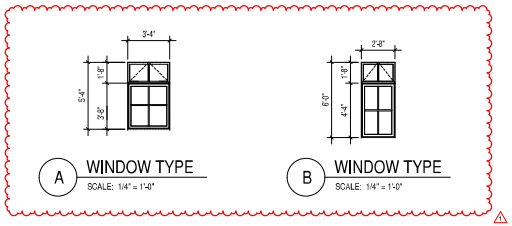
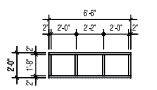


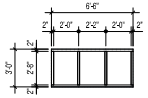
A WINDOW TYPE
SCALE: 1/4" = 1'-0"

B WINDOW TYPE
SCALE: 1/4" = 1'-0"

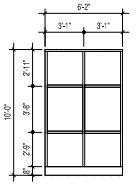


C WINDOW TYPE
SCALE: 1/4" = 1'-0"

D WINDOW TYPE
SCALE: 1/4" = 1'-0"

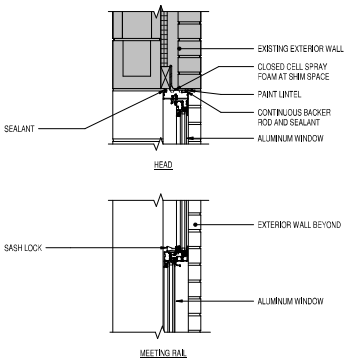


E WINDOW TYPE
SCALE: 1/4" = 1'-0"

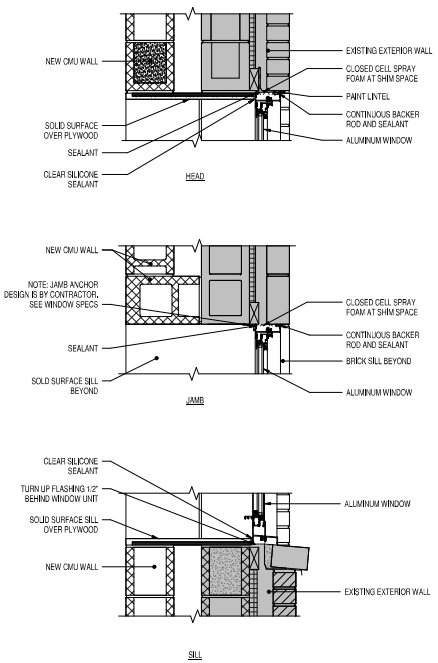


F WINDOW TYPE
SCALE: 1/4" = 1'-0"

WINDOW SCHEDULE			
MARK	MATERIAL	WIDTH	HEIGHT
A	Aluminum	3'-4"	5'-4"
B	Aluminum	2'-8"	6'-0"
C	Aluminum	6'-6"	2'-0"
D	Aluminum	2'-8"	3'-4"
E	Aluminum	6'-6"	3'-0"
F	Aluminum	6'-2"	10'-0"



A1 ALUMINUM WINDOW DETAIL
SCALE: 1 1/2" = 1'-0"



A2 ALUMINUM WINDOW DETAIL
SCALE: 1 1/2" = 1'-0"

COLORS INDUSTRIAL AREA

NOTES:
1. REFERENCE MCB CAMP LEJEUNE, BASE EXTERIOR ARCHITECTURAL PLAN (BEAP) 2010, SECTION 4.2.2 INDUSTRIAL AREA

   HTTP://WWW.LEJEUNE.MARINES.MIL/PORTALS/27/DOCUMENTS/DD/BEAP/BEAP_CONTENTS.HTML#_TOC276453676
2. FINAL COLOR SELECTIONS MUST BE APPROVED BY THE CONTRACTING OFFICER

B6 EXTERIOR MATERIALS SCHEDULE
SCALE: NOT TO SCALE

REVISIONS			
SYM.	DESCRIPTION	DATE	APP.
1	WINDOW TYPE REVISIONS	08/06/26	

GRAPHIC SCALE: 1/4"=1'-0"
4" 0 2" 4" 8"

DARDEN J. EURE III
REGISTERED ARCHITECT
NEW BERN NC
29 MAY 2026

NBC ARCHITECTS PA
CERT. NO. 50679
NEW BERN, NC

mbf architects pa

DES.	JAS
DR.	JAS
CHK.	DJE,III
SUBMITTED BY:	
DESIGN DR.	CHRIS MAAS
APPROVED: PWO OR OIC	DATE
SATISFACTORY TO:	DATE

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPAIR BEQ G703

WINDOW TYPES AND DETAILS

SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.
E1	80091	60043505
CONSTR. CONTR. NO.	N40085-25-8-0051	
SCALE AS NOTED	SPEC. 5-25-0051	SHEET 68 OF 233

A-603

BASE NO. 2006

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