

Addendum No. 3

Project: Building 3 Remodel
Building 3, 3 Infantry Drive
Camp Murray, WA 98430
State Project No. 2022-609

KMB Job No.: 22052

Issue Date: May 5, 2023

Bid Date: May 18, 2023

To: All Plan Holders

From: Atika Jain, Project Manager

The following modifications to the Project Manual, Specifications and/or Drawings are to be incorporated into bid proposals that may be offered, and the subsequent construction. Bidders shall assess and include the full impact of the revision(s) on any and all related systems and work. Receipt and incorporation of this Addendum in the bid proposal shall be indicated on the Bid Form in the space provided.

GENERAL:

Item Description

1. MODIFICATIONS TO PRIOR ADDENDA

None

2. PRE-BID PARTICIPANTS:

A. The Pre-Bid walk through was not mandatory. A copy of the sign-in sheet of Participants (2 page) is attached to this Addendum.

3. GENERAL OBSERVATIONS

A. All Potential bidders coming to Camp Murray to submit their bid need to obtain a visitor's pass at the entry gates.

- Allow at least one to two hours for the registration process. All bidders are required to complete a pre-registration form prior to accessing Camp Murray. Once completed, bidders must notify Atika Jain (KMB architects) and Jerry Boone (WMD) via email that the form has been filled out. A printout of the completed form must be provided for the registration process at the gate. You can access the form by following the link below or by following the enclosed instruction sheet (2 pages)

<https://dbids-global-enroll.dmdc.mil/preenrollui/#/>

- The Sponsor details required for the form as noted below.

Sponsor Name – Jerry Boone

Sponsor Email - Jerry.Boone@mil.wa.gov

Sponsor phone number – (253)512-8940

B. Building 3 will be partially occupied during the period of construction. The contractor laydown area and access points are indicated on the site plan on sheet GI201 (attached below as a part of the addendum)

4. PRE-BID QUESTIONS & ANSWERS

Questions posed by email or telephone after pre-bid meeting and answers provided.

Question: Where can existing record drawings be accessed for reference?

Answer: Available project information/ existing drawings can be found by accessing the following link
https://kmbarchitects-my.sharepoint.com/:f/g/personal/atikajain_kmb-architects_com/Elh32Hkl1HZNkwlqvSo6bCYBxEwLFRpXvHFTMkmoPgGZsQ?e=5nPhca

Question: What will be contractor's responsibility regarding the salvaged partitions (Note 1 sheet AD-100)

Answer: The contractor is expected to salvage and stack the partition inside building 3 as directed by the client.

Question: Are there any Fire Alarms?

Answer: The building does not have Sprinklers or Fire detection system. The building will need a Distributed Antenna System. Emergency Responder Radio coverage system as per the noted deferred submittal. Contractor to coordinate inspection with the County at the time of substantial completion.

Question: Restroom use for the contractors

Answer: The Contractor will be required to arrange for their own portable toilets. The contractor laydown area and access points are indicated on the site plan on sheet GI201 (attached below as a part of the addendum)

Question: Scope of HVAC?

Answer: All Mechanical drawings should be thoroughly reviewed for the Mechanical scope. The scope does include work in the mezzanine floor and room number 112 and 113.

Question: Mezzanine floor plan?

Answer: Demolition in the Mezzanine is indicated in the Mezzanine Demolition Plan located on M-051. Mechanical construction is indicated in the Mezzanine HVAC Plan on M-101.

Question: Where is the existing head end control panel located?

Answer: The new VRF system will be controlled by the VRF manufacturers controls. IE: a Mitsubishi VRF system will have Mitsubishi controls. These controls are required to interface with the existing building control system. The location of the existing controls is shown on the mezzanine plan on sheet M-101. Further requirements are listed in the Energy Code notes on M-001 and Sequence of operations on M-002.

DRAWINGS:

ARCHITECTURAL DRAWINGS

5. Sheet GI201, Site Plan
 - A. Site Plan to reflect added notes on contractor access and laydown area

MECHANICAL DRAWINGS

6. Sheet M-002, Schedules
 - A. **REMOVE** VRF HEAT PUMP SCHEDULE – OUTDOOR UNIT note 1. Remove note 1 from remarks for HP-1A.
7. Sheet M-501, Details
 - A. **ADD** at HEAT RECOVERY VENTILATOR INSTALLATION DETAIL 1/M-501: Add neoprene isolation hangers at threaded rod connection to the unit mounting tabs. Mason type HD or approved.
 - B. **ADD** at CEILING CASSETTE INSTALLATION DETAIL 5/M-501: Add neoprene isolation hangers at threaded rod connection to the unit mounting tabs. Mason type HD or approved.

ELECTRICAL DRAWINGS

8. Sheet E-100, Electrical notes
 - A. Electrical Note #2 states “Contractor shall carefully remove existing data cables and coiled above ceiling in existing cable tray” – **REPLACE verbiage with the following**: Contractor shall carefully remove data cabling indicated by electrical note #2 and neatly coil at structure for future use by WMD I.T. Vendor.
 - B. Electrical Note #3 - Existing cable tray shall be removed in its entirety **ADD verbiage** and disposed of in a legal manner.
-

PROJECT MANUAL:

9. DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

- A. Section 00010- PROJECT TITLE PAGE
 - 1) Under Owner **STRIKE** suffix -5050 from zip code.
- B. Section 00110- TABLE OF CONTENT
 - 1) **STRIKE** section number 016100 and **REPLACE** with number 016000
 - 2) **STRIKE** section number 238199 and **REPLACE** with number 238100
 - 3) **STRIKE** section number 238100 AIR CONDITIONING EQUIPMENT

10. DIVISION 09 – FINISHES

- A. Section 088000- GLAZING
 - 1) Under 3.5 INSULATING- LAMINATED- GLASS SCHEDULE, Point 3 – Outdoor Lite **STRIKE** part b Low-E Coating.
 - Point 4 – Interspace Content **STRIKE** 100 percent argon gas **REPLACE** with air.
 - Point 6 through 12 **STRIKES IN ENTIRETY**

11. DIVISION 21 – FIRE SUPPRESSION

- A. SECTION 210500 GENERAL FIRE SUPPRESSION REQUIREMENTS **REMOVED IN ENTIRETY**
 - B. SECTION 211000 FIRE SPRINKLER SYSTEM **REMOVED IN ENTIRETY**
-

APPROVED SUBSTITUTIONS:

In accordance with Section 012500 the following manufacturers are/or their products, noted as applicable, are approved subject to full compliance with specifications and drawings, including all materials and/or assembly, performance requirements specified, which shall be documented in writing and submitted with "Shop Drawings" and/or manufacturers

literature as specified. Should the materials and/or assemblies listed below be subsequently found not to meet the specified and drawing requirements, or cannot be substantiated by written documentation, the Architect/Engineer reserves the right to disapprove said material and/or assembly.

Section	Item	Manufacturer(s) Approved
230593	Air Balancer	Velocity Building Technical Services
233810	VRF Heat Pump System	LG
233810	VRF Heat Pump System	Samsung
233810	Energy Recovery Ventilator	LG
233810	Energy Recovery Ventilator	Solar and Palau

END ADDENDUM NO. 3

This Addendum is being distributed to all listed plan holders. Recipients are responsible for dissemination of this information to all affected sub-bidders, suppliers, etc.

Enclosures:

- 1) Camp Murray Defense Biometric Identification System (DBIDS) Pre-Enrollment Instructions -Updated: 12 January 2023 (2 pages)
- 2) Pre-Bid walk through sign in sheet (2 pages)
- 3) Section 00010- PROJECT TITLE PAGE (1 page)
- 4) Section 00110- TABLE OF CONTENT (4 pages)
- 5) Section 088000- GLAZING (6 pages)
- 6) Drawing sheet G1201 (1 page)

Page 1

Step 1: Click “Get Started” on the DBIDS Pre-Enrollment Page.

Page 2

Step 2: Enter your complete First, Middle, and Last name with any suffix

Step 3: Enter your date of birth in Month, Day, and Year.

Step 4: Enter your Country of Birth and Country of Citizenship.

Step 5: Under “Primary Identifier”, select your ID Type. This can be:

- Foreign ID Number (US Issued)
- USCIA (A) Number
- Taxpayer ID Number (ITIN)
- National ID (Foreign Country Issued) with ID Number and Issuing Country
- Passport with Passport Number and Issuing Country
- Social Security Number with no dashes (this is the preferred identifier)

Note: Secondary Identifier is not required.

Step 6: Click “Next”.

Page 2

Step 7: Enter your Gender, Ethnicity, Hair and Eye Color as they appear on your ID or Driver’s License.

Step 8: Enter your Height and Weight.

Note: Occupation is not required.

Step 9: Click “Next”.

Page 3

Step 10: Enter your primary address.

Step 11: Enter a valid email, and select “Personal” or “Work”.

Step 12: Enter a valid phone number, and select the “Type” (DSN, Home, Mobile, or Work).

Step 13: Click “Next”.

Page 4

Step 14: Enter your Sponsor’s First and Last Name.

Step 15: Enter a valid email and phone number.

Note: This step is crucial in making sure that your pass is sent to the correct location.

Step 16: Select the following for “Site”:

- Service - “Air Force”
- State - “Washington”

Step 17: Click “Camp Murray”.

Step 18: Enter the Start and End Date for your visit (for single day visits, use the same date).

Step 19: Enter your Purpose of Visit, as well as retyping the Sponsor Information (Steps 14 & 15), as well as your Start / End Date of your visit (Step 18).

Step 20: Click the check box to acknowledge that the information you entered will be used for vetting to determine fitness to enter the installation in accordance with Department of Defense and local policies.

Step 21: Click “Submit”.

Page 5:

Step 22: Print this page or write down the alpha-numeric code provided and email it, along with a copy of your photo ID to your sponsor to submit to Security Forces to create your pass.

If approved for entry, your visitor’s pass will be emailed using the information provided to your sponsor.

Note: For Expedited Entry, your sponsor must email the following to 194WG.SFS.CampMurrayVCC@us.af.mil:

- A photo of your Driver’s License or photo ID (this will be used as the photo on your visitor’s pass).
- A PDF print out of the page with the QR code and alpha-numeric.

If approved for Expediated Entry, your visitor’s pass will be emailed using the email that your sponsor used to submit your documentation.



906 Columbia Street SW, Suite 400
 Olympia, Washington 98501
 360.352.8883
 www.KMB-architects.com

Pre-Bid Walk-Through - Sign-In Sheet

Date/Time: 04/27/2023, 10:00 am
 Project: State Project No. 2022-609
 Building 3 Remodel
 State of Washington, Military Department
 3 Infantry Drive, Camp Murray, WA 98430

KMB Job. No.: 22052

Name	Company/Position	Phone	Email	General/Sub or Other?
Jennifer Kuljam	Pease: Sons, Inc.	253-531-7700	Bids@peaseandsons.com	GC
SARA JO JARAMILLO	HOLIDAY-PARKS	253-604-8553	SARAJ@HOLIDAY/PARKS.COM	MEP
Sofia Polyanko	Holiday Parks	253-397-6359	sofiap@holidayparks.com	MEP
Sean Muldoon	P+L	360-265-4768	sean@palgencon.com	GC
Derick Pierce	Safari elec	253-514-2544	Derick.Pierce@SafariElectric.com	Elec Sub
Chad Stayton	Elite Mechanical Services	360-878-2777	chads@elitemechsvcs.com	HVAC
TRACY CUTLER (GC)	Lewis/CUTLER	360-866-1711	TLCutler@Live.com	GC
Dan Gwartney	Cascade Power Inc	360-402-0249	dan@cascadepowerinc.com	Elec
DOUG PALMER	VANTIS, PM	206-730-2722	dpalmer@vantis.net	GC
Fred Shepman	CWT owner	253-220-7546	fred@constructionworksinc.com	GC
SAM JONES	OWNER	360-633-5338	SAMJ@PROWORKSENTERPRISES.COM	GC
Rick Rund	Cannon/Est.	253-691-1824	RRund@TeamCannon.com	Elec
John Miller	BTS	360-620-1732	john@boomtownservices.com	GC
BENJAMIN FREEMAN	BTS	360-620-1732	office@boomtownservices.com	GC
Elise Symonds	SW Craftsmen LLC	360-508-6037	swcraftsmen@gmail.com	GC
David Schrader	SE&C Estimator	253-433-4626	David@SchraderInc.com	Sub Arch:
Colton Reeves	Thompson Electrical	253-281-0389	Colton@ThompsonConstructors.com	EL
Name	Company/Position	Phone	Email	General/Sub or Other?

Name	Company/Position	Phone	Email	General/Sub or Other?
Kurt Moyer	Pacific Tech	360.414.8084	estimating@pactechgroup.com	GC
RICK PETERSON	OAK HILLS Const	253-218-2288	ricke@oakhillsconstruction.com	GC
Jonathan Ramey	Jaura Electric	425 635-8233	info@jauraelectric.com	Sub
PETE MENDIOLA	SPECTRA Contract Flooring	2533041916	pete.Mendiola@spectracf.com	SUB
Marcus Johnson	American Abatement + Demo	602-471-5451	marcus@aad-wa.com	sub
Marcus Johnson	American Dickson	253-929-8730	office@aad-wa.com	GC
KASEY NO	MJ TAKISAKI	206 305 5708	KASEYNO@TAKISAKI.COM	GC
Mark Eddy	Ainsworth / Delta	206 730-1724	mark.eddy@ainsworth.com	Sub
Brent Metcalf	Metcalf Electric	253-465-1461	Brent@Metcalf84.com	Elect.
LEE ROGERS	WOODLAND INDUSTRIES	253-606-9663	LEE@WOODLANDINDUSTRIES.NET	DEMO
MONNIE MILLER	Safeguard Abatement	509-759-7481	Joshua@elite-es.net	Demo
Reid Christensen	Christensen Inc	360 709-0330	info@cincgc.com	GC
Justin Simons	BFC Const.	2536250235	Justin.S@bfcconstruction.com	GC
TRAVIS JOHNSON	CAPITAL HEATING	360-239-8739	TRAVIS@capitalheatingandcooling.com	SUB

State Project No. 2022-609

Project Manual

for

**Building 3 Remodel
Washington Military Department**

Building 3

3 Infantry Drive, Camp Murray, WA 98430

Owner:

**State of Washington
Military Department**

Building 36 Quartermaster Road
Camp Murray, Washington 98430

Architect:

KMB architects, inc., p.s.
906 Columbia Street SW, Suite 400
Post Office Box 41476
Olympia, Washington 98501

Jerry Boone
State of Washington Military Department
Construction & Facilities Management Office

Date:



Prepared by:
KMB architects
906 Columbia Street SW, Suite 400
Olympia, WA 98501
360.352.8883
Principal: Tony Lindgren, PE
Project Manager: Atika Jain, RA



DOCUMENT 000110
TABLE OF CONTENTS

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

000101	PROJECT TITLE PAGE
000103	PROJECT DIRECTORY
000110	TABLE OF CONTENTS
001113	ADVERTISEMENT FOR BIDS
002113	INSTRUCTIONS TO BIDDERS FOR WASHINGTON STATE FACILITIES CONSTRUCTION
002213	SUPPLEMENTAL BIDDER RESPONSIBILITY CRITERIA
FORM 1	CONTRACTOR EXPERIENCE DETAIL
FORM 2	RESUME OF KEY PERSONNEL FOR PROPOSED CONTRACT
FORM 5	REFERENCE EVALUATION QUESTIONNAIRE
FORM 6	SUPPL RESPONSIBILITY CRITERIA EVALUATION SCORE SHEET
003126	EXISTING HAZARDOUS MATERIAL INFORMATION LIMITED HAZARDOUS MATERIALS SURVEY REPORT
004113	BID FORMFORM CONTRACTOR CERTIFICATION, WAGE THEFT PREVENTION – RESPONSIBLE BIDDER CRITERIA FORM
006216	CERTIFICATE OF INSURANCE FORM
006294	INVOICE VOUCHER FORM A19-2AE2
006313	REQUEST FOR INFORMATION FORM
006336	CONSTRUCTION FIELD AUTHORIZATION (FA) FORM
006357	CONTRACT CHANGE ORDER PROPOSAL (COP) FORM
006363	CHANGE ORDER (CO) FORM
007200	GENERAL CONDITIONS FOR WASHINGTON STATE FACILITIES CONSTRUCTION
007343	WAGE RATE REQUIREMENTS
007410	FEDERAL SPECIAL CONDITIONS
ATTACHMENT NO. 1	UNIFIED WASHINGTON MILITARY DEPARTMENT AND NATIONAL GUARD POLICY NO. 10-04
ATTACHMENT A:	WMD ENVIRONMENTAL PROGRAM OFFICE SPILL RESPONSE FLOW CHART
ATTACHMENT B:	SPILL INCIDENT REPORT FORM
ATTACHMENT C:	194WG SPILL RESPONSE FLOW CHART FOR AIR NATIONAL GUARD PROPERTY AND PERSONNEL
ATTACHMENT NO. 2	DEBARMENT, SUSPENSION, INELIGIBILITY OR VOLUNTARY EXCLUSION CERTIFICATION FORM

DIVISION 01 – GENERAL REQUIREMENTS

01 1000	SUMMARY
01 2000	PRICE AND PAYMENT PROCEDURES
01 2050	CONTRACT MODIFICATION PROCEDURES
01 2500	SUBSTITUTION PROCEDURES
FORM	SUBSTITUTION REQUEST FORM
01 3000	ADMINISTRATIVE REQUIREMENTS
01 4000	QUALITY REQUIREMENTS
014100	REGULATORY REQUIREMENTS
01 4216	DEFINITIONS

01 5000	TEMPORARY FACILITIES AND CONTROLS
01 6000	PRODUCT REQUIREMENTS
01 7000	EXECUTION REQUIREMENTS
01 7419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
01 7800	CLOSEOUT SUBMITTALS AND PROCEDURES
FORM	SUBSTANTIAL COMPLETION CHECKLIST FORM
FORM	CERTIFICATE OF SUBSTANTIAL COMPLETION FORM
FORM	FINAL ACCEPTANCE CHECKLIST FORM
018119	INDOOR AIR QUALITY REQUIREMENTS
01 9113	GENERAL COMMISSIONING REQUIREMENTS
DIVISION 02 – EXISTING CONDITIONS	
024119	SELECTIVE DEMOLITION
DIVISION 03 – CONCRETE (NOT USED)	
DIVISION 04 – MASONRY (NOT USED)	
DIVISION 05 – METALS	
054300	SLOTTED CHANNEL FRAMING
DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES	
061000	ROUGH CARPENTRY
064800	WOOD FRAMES
DIVISION 07 – THERMAL AND MOISTURE PROTECTION	
079200	JOINT SEALANTS
079219	ACOUSTICAL JOINT SEALANTS
DIVISION 08 – OPENINGS	
081213	HOLLOW METAL FRAMES
081416	FLUSH WOOD DOORS
087100	DOOR HARDWARE
088000	GLAZING
DIVISION 09 – FINISHES	
090561	COMMON WORK RESULTS FOR FLOORING PREPARATION
092900	GYPSUM BOARD
095100	ACOUSTICAL CEILINGS
096513	RESILIENT BASE AND ACCESSORIES
096813	TILE CARPETING
098100	ACOUSTICAL INSULATION
099000	PAINTING AND COATING
099600	HIGH-PERFORMANCE COATINGS

DIVISION 10 – SPECIALTIES

102613 CORNER GUARDS

DIVISION 11 – EQUIPMENT

115223 AUDIO-VISUAL EQUIPMENT SUPPORTS

DIVISION 12 – FURNISHINGS

122413 ROLLER WINDOW SHADES

DIVISION 13 – SPECIAL CONSTRUCTION (NOT USED)

DIVISION 14 – CONVEYING EQUIPMENT (NOT USED)

DIVISION 21 – FIRE SUPPRESSION (NOT USED)

DIVISION 22 – PLUMBING (NOT USED)

DIVISION 23 – HEATING VENTILATING AND COOLING

230500 GENERAL HVAC REQUIREMENTS
230529 HVAC HANGERS AND SUPPORTS
230548 HVAC VIBRATION AND SEISMIC CONTROL
230593 AIR BALANCING
230700 HVAC INSULATION
230900 HVAC CONTROL SYSTEM
233100 DUCTWORK
233300 AIR DUCT ACCESSORIES
238100 HVAC EQUIPMENT

DIVISION 25 – INTEGRATED AUTOMATION (NOT USED)

DIVISION 26 – ELECTRICAL

260126 MAINTENANCE TESTING FOR ELECTRICAL SYSTEMS
260500 COMMON WORK RESULTS FOR ELECTRICAL SYSTEMS
260519 LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
260533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
260800 COMMISSIONING OF ELECTRICAL SYSTEMS
262726 WIRING DEVICES
262813 FUSES
262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
265000 LIGHTING

DIVISION 27 – COMMUNICATIONS

275319 DISTRIBUTED ANTENNA SYSTEM

DIVISION 28 – ELECTRICAL SAFETY AND SECURITY (NOT USED)

DIVISION 31 – EARTHWORK (NOT USED)

DIVISION 32 – EXTERIOR IMPROVEMENTS (NOT USED)

DIVISION 33 – UTILITIES (NOT USED)

END OF DOCUMENT 000110

SECTION 088000

GLAZING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Glass products.
 - 2. Insulating glass.
 - 3. Glazing tapes.
 - 4. Miscellaneous glazing materials.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances to achieve proper safety margins for glazing retention under each design load case, load case combination, and service condition.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Glass Samples: 2 for each type of glass product other than clear monolithic vision glass.
 - 1. Size: Not less than 12 sq. in.
- C. Glazing Accessory Samples: For gaskets and colored spacers, in 12 inch lengths.
- D. Glazing Schedule:
 - 1. List glass types and thicknesses for each size opening and location.
 - 2. Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data:
 - 1. For manufacturer of fabricated glass units.
 - 2. For Installer.
- B. Product Certificates: For each type of glass and glazing product, from manufacturer.

1.5 QUALITY ASSURANCE

- A. Fabricated-Glass Manufacturer Qualifications: Qualified manufacturer of fabricated glass units who is approved and certified by primary glass manufacturer.
- B. Installer Qualifications: Qualified installer who employs glass installers for this Project with minimum 3 years of experience and who is certified under National Glass Association's Certified Glass Installer Program.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials in accordance with manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

- B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.7 WARRANTY

- A. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period.
 - 1. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions.
 - 2. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.
 - 3. Warranty Period: 5 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period.
 - 1. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions.
 - 2. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
 - 3. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations:
 - 1. Obtain glass and glazing accessories from single source from single manufacturer for each product and installation method.

2.2 PERFORMANCE CRITERIA

- A. Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
 - 1. Provide Kind FT (fully tempered) glass lites where safety glass is indicated or required by AHJ.

2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. NGA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual."
 - 2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of SGCC or another certification agency acceptable to AHJ.
 - 1. Indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies on label.

- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least 1 component lite of units with appropriate certification label of IgCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.
- E. Strength: Provide glass types to comply with Performance Criteria Article.
 - 1. Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass (Kind HS), or fully tempered float glass (Kind FT).
 - 2. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass (Kind HS) or fully tempered float glass (Kind FT).
 - 3. Where fully tempered float glass is indicated or required by applicable code, provide fully tempered float glass (Kind FT).

2.4 GLASS PRODUCTS

- A. Clear, Annealed Float Glass: ASTM C1036, Type I, Class I (clear), Quality-Q3.
- B. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear), Quality-Q3.
 - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.

2.5 LAMINATED GLASS

- A. Laminated Glass: ASTM C1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
 - 1. Construction: Laminate glass with polyvinyl butyral interlayer (PVB) to comply with interlayer manufacturer's written instructions.
 - 2. Interlayer Thickness: Provide thickness as needed to comply with requirements, but no less than 0.030 inch.
 - 3. Interlayer Color:
 - a. Translucent at areas adjacent to equipment or where screening non-occupied areas from view.

2.6 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified in accordance with ASTM E2190.
 - 1. Sealing System: Dual seal, with manufacturer's standard polyisobutylene primary and silicone secondary, polysulfide and silicone, or as recommended by manufacturer for application.
 - 2. Warm-Edge Perimeter Spacer: Spacer manufacturer's system consisting of polypropylene-covered stainless steel, nonmetallic laminate or tube, silicone, with integral desiccant and vapor barrier.
 - a. Products: Subject to compliance with requirements, provide one of the following:
 - 1) Cardinal Glass Industries: Endur IG.
 - 2) Quanex Building Products: Super Spacer TriSeal
 - 3) Technoform North America.: TGI-Spacer.
 - 4) Thermix; a brand of Ensinger USA; Thermix Spacers.
 - 5) Viracon Inc.: Viracon Thermal Spacer (VTS).
 - 6) Vitro Architectural Glass: Intercept Spacer System.
 - 7) Approved substitution.
 - b. Spacer Width: 1/2 inch or as required for specified insulating glass unit.
 - c. Spacer Height: 0.27 inch.
 - d. Corner Construction: Manufacturer's standard corner construction.
 - e. Color: Black or as selected by Architect.
 - 3. Desiccant: Molecular sieve, silica gel, or a blend of both.

2.7 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids, elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800 for products indicated below:
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. CR Laurence: GT Series Butyl Tapes.
 - b. GSSI Sealants: MB-10A or EZ TRIM Sealant Tape.
 - c. ITW Polymers Sealants: Tacky Tape SM5 Series.
 - d. Pecora Corp.: Extru-Seal.
 - e. Tremco: Tremco 440 Tape.
 - f. Approved substitution.
 - 2. Shore Hardness: ASTM 2240; Type A durometer hardness of 15 to 20.
 - 3. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.

2.8 MISCELLANEOUS GLAZING MATERIALS

- A. Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks:
 - 1. EPDM or other silicone-compatible material.
 - 2. Shore A Durometer Hardness: ASTM D2240; 85, plus or minus 5.
 - 3. Type recommended in writing by glass manufacturer.
- D. Spacers:
 - 1. Neoprene blocks or continuous extrusions.
 - 2. Shore A Durometer Hardness: ASTM D2240; 50 minimum or as required by glass manufacturer to maintain glass lites in place for installation indicated.
 - 3. Type recommended in writing by glass manufacturer.
- E. Edge Blocks:
 - 1. EPDM or other silicone-compatible material.
 - 2. Shore A Durometer Hardness: ASTM D2240; as required by glass manufacturer to maintain glass lites in place for installation indicated.
 - 3. Type recommended in writing by glass manufacturer.

2.9 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing.
- B. Examine glazing units to locate interior surfaces.

1. Label or mark units as needed so that interior surfaces are readily identifiable.
2. Do not use materials that leave visible marks in completed Work.

3.2 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation.
 1. Remove damaged glass from Project site and legally dispose of off Project site.
 2. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer.
 1. Set blocks in thin course of compatible sealant suitable for heel bead.
- D. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- E. Provide spacers for glass lites where length plus width is larger than 50 inches.
 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 2. Provide 1/8 inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- F. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- G. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.

3.3 INSTALLATION OF TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length.
 1. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs.
 1. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped.
- E. Do not remove release paper from tape until right before each glazing unit is installed.
- F. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops.
 1. Start gasket applications at corners and work toward centers of openings.
- G. Application: Interior glazing conditions unless indicated otherwise.

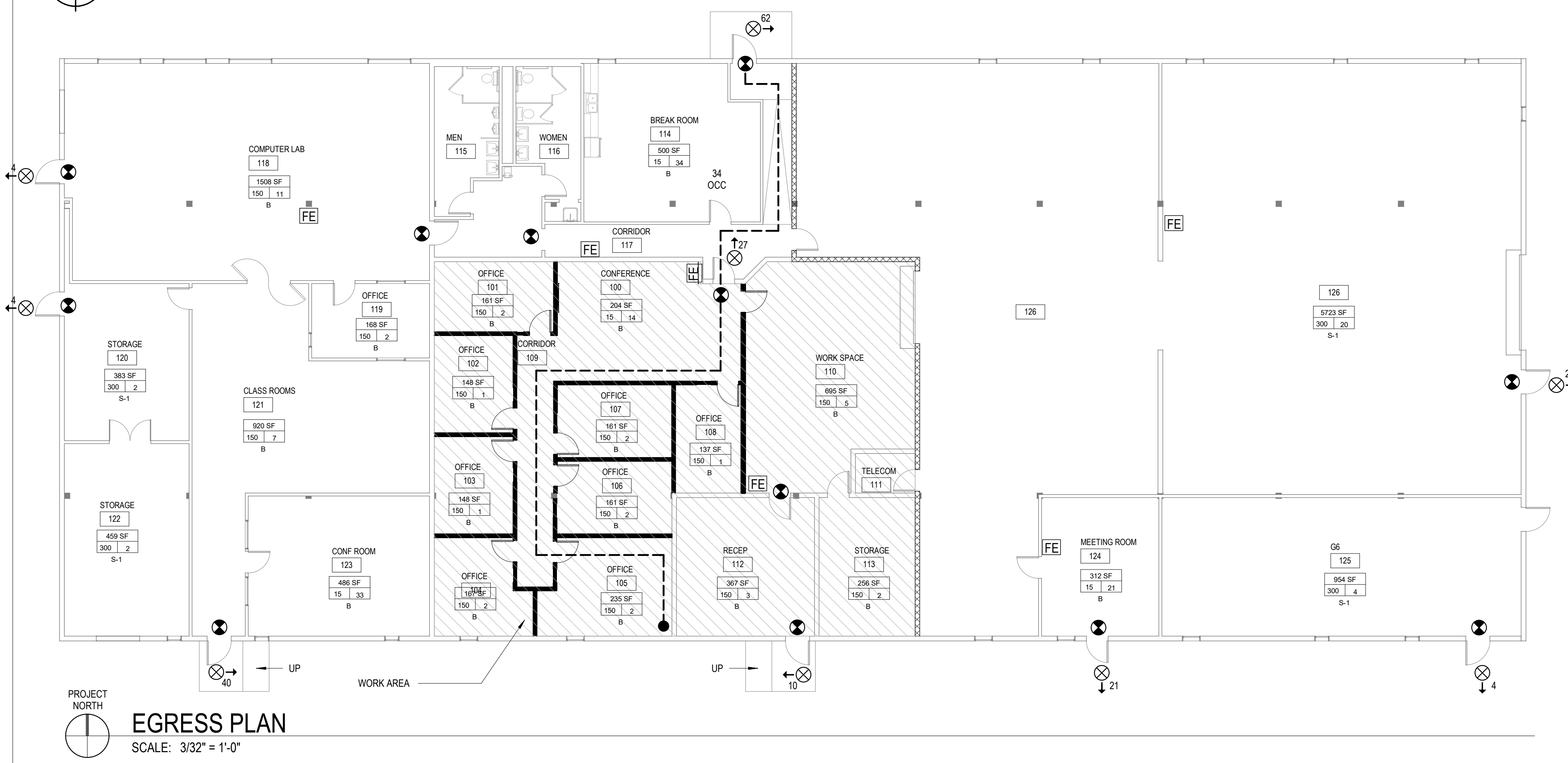
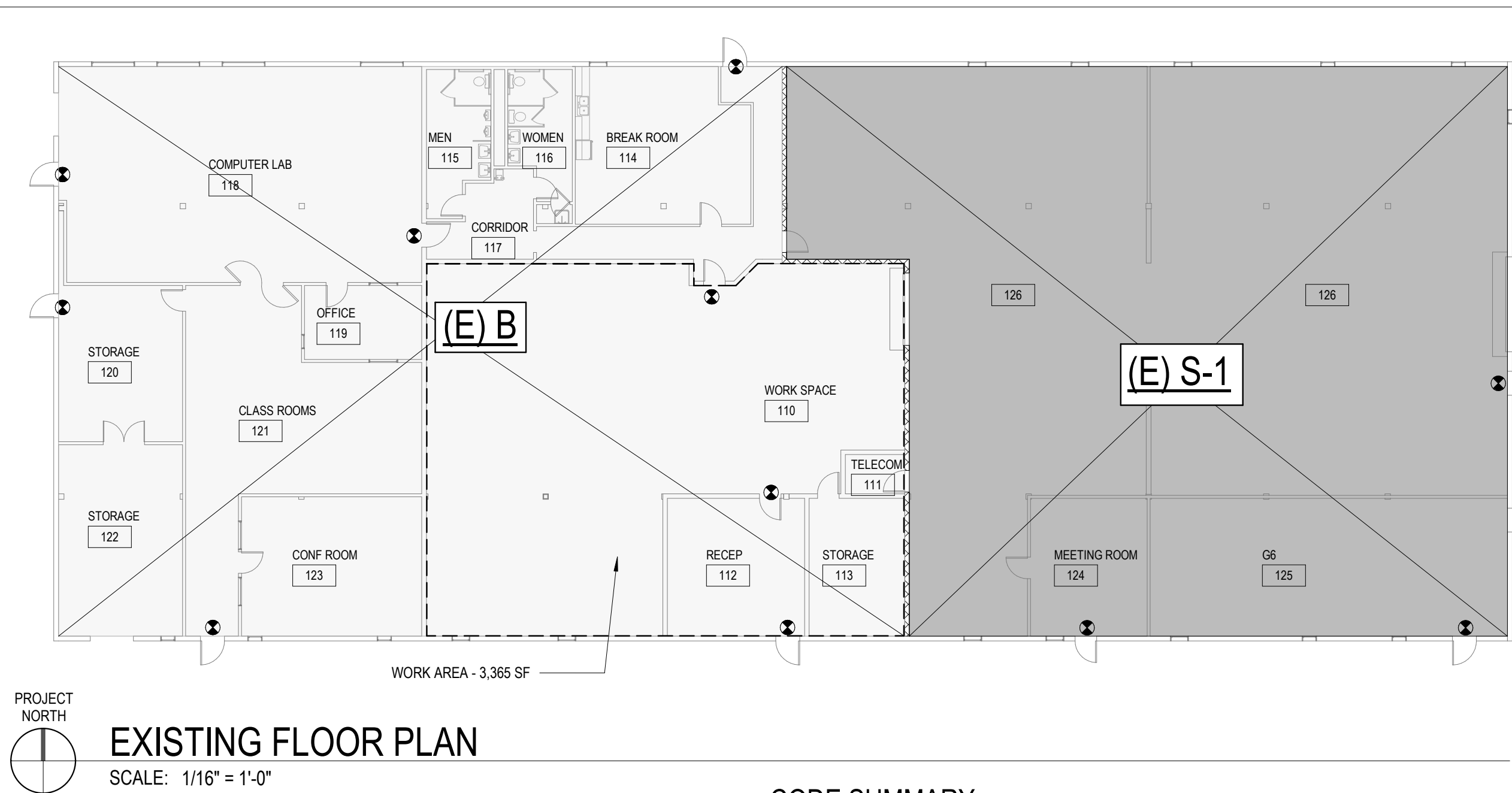
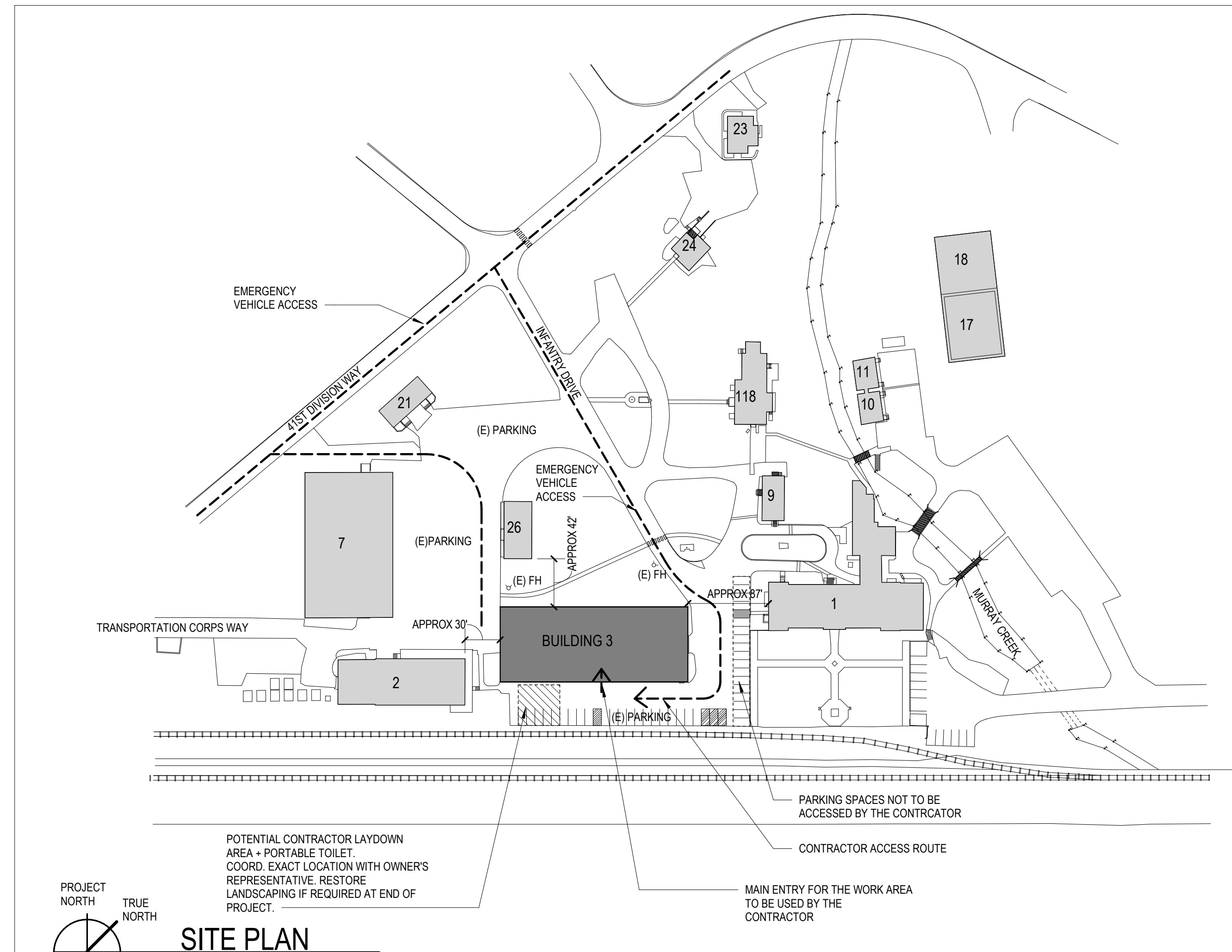
3.4 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations.
 - 1. Remove and replace glass that is damaged during construction period.
- C. Wash glass on both exposed surfaces not more than 4 days before date scheduled for inspections that establish date of Substantial Completion.
 - 1. Wash glass as recommended in writing by glass manufacturer.

3.5 INSULATING-LAMINATED-GLASS SCHEDULE

- A. Insulating Glass Type (IGU-1): Clear, insulating glass:
 - 1. Overall Unit Thickness: 1 inch.
 - 2. Thickness of Each Glass Lite: 6.0 mm.
 - 3. Outdoor Lite: Annealed float glass.
 - 4. Interspace Content: Air.
 - 5. Indoor Lite: Annealed float glass.
 - a. Provide fully tempered lites where indicated and where required by building code.
 - 6. Provide safety glazing labeling.
 - 7. Locations:
 - a. Relites where indicated on Drawings.

END OF SECTION 088000



CODE SUMMARY

CODE COMPLIANCE STRATEGY

THE PROPOSED CODE COMPLIANCE PATH FOR THIS PROJECT IS VIA THE WORK AREA COMPLIANCE METHOD PER 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) SECTION 301.3.2.

THE PROJECT IS SUMMARIZED AS A LEVEL 2 ALTERATION TO AN EXISTING 16,250 SQUARE FOOT, SINGLE-STORY, NON-SPRINKLERED, SINGLE TENANT, SEPARATED MIXED OCCUPANCY (1997 UBC & 2018 IBC CLASSIFICATIONS: B & S-1), CONSTRUCTION TYPE V-B BUILDING.

THE PROPOSED WORK AREA IS 3,365 SQUARE FEET (20% OF THE EXISTING BUILDING). THE TOTAL OCCUPANT LOAD FOR THE PROPOSED WORK AREA IS 27. THE PREVIOUS OCCUPANT LOAD FOR THE SAME SPACE WAS SIMILAR UNDER THE 2003 PROJECT. THE 3,365 SQUARE FOOT AREA UNDER THE 2003 PROJECT WAS USED FOR MILITARY SIMULATOR TRAINING. THE SPACE WAS SUBSEQUENTLY TRANSITIONED TO OPEN OFFICE BY THE REMOVAL OF THE SIMULATORS AND INSTALLATION OF TYPICAL OFFICE CUBICLES.

A 2003 PROJECT (BP#337626) CONSTRUCTED A 1-HOUR OCCUPANCY SEPARATION BETWEEN THE B & S1 OCCUPANCIES. NO ALTERATIONS TO THE EXISTING S-1 OCCUPANCY ARE PROPOSED. THE EXISTING S-1 USE IS FOR LIMITED STORAGE ASSOCIATED WITH THE WASHINGTON NATIONAL GUARD MUSEUM WHICH LIES IMMEDIATELY EAST OF BUILDING 3. THE REMAINDER OF THE EXISTING BUILDING USE PER 2018 IBC IS GROUP B - BUSINESS WITH ACCESSORY STORAGE.

NO CHANGE OF INTENSITY OF USE OR OCCUPANCY IS PROPOSED. NO STRUCTURAL ALTERATIONS ARE PROPOSED.

NEW MECHANICAL WORK WILL COMPLY WITH THE RELEVANT PROVISIONS OF THE 2018 WASHINGTON STATE ENERGY CODE AND 2018 UNIFORM PLUMBING CODE. ALL NEW CONSTRUCTION WILL COMPLY WITH THE 2018 INTERNATIONAL BUILDING AND FIRE CODES.

PROPERTY: BUILDING 3, 3 INFANTRY DR, CAMP MURRAY, WA 98430
TAX PARCEL NUMBER: 02192130000

AUTHORITIES HAVING JURISDICTION:
BUILDING, FIRE, MECHANICAL, ENERGY: PIERCE COUNTY

UTILITY: JOINT BASE LEWIS MCHORD

APPLICABLE CODES:

INTERNATIONAL & NATIONAL CODES:
2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FIRE CODE
2018 UNIFORM PLUMBING CODE (UPC)
2020 NATIONAL ELECTRICAL CODE
2009 ACCESSIBLE AND USABLE BUILDINGS (A117.1)

WASHINGTON STATE CODES AMENDMENTS:
2018 WASHINGTON STATE ENERGY CODE CHAPTER 51-11 WAC
WA STATE AMENDMENTS TO THE 2018 IBC CHAPTER 51-50 WAC
WA STATE AMENDMENTS TO THE 2018 IMC CHAPTER 51-52 WAC
WA STATE AMENDMENTS TO THE 2018 IFC CHAPTER 51-54 WAC
WA STATE AMENDMENTS TO THE 2018 UPC CHAPTER 51-56 AND 51-57 WAC

EXISTING BUILDING INFORMATION:

OCCUPANCY GROUP: SEPARATED MIXED USE - B & S-1
NO CHANGE OF USE OR OCCUPANCY PROPOSED

CONSTRUCTION TYPE: V-B
BUILDING AREA: 16,250 SQ. FT.
SPRINKLERS: NON-SPRINKLERED

CODE LEGEND

	SQUARE FEET OCC LOAD OCC FACTOR	ROOM OCCUPANT LOAD
	OCCUPANCY TYPE	
	EXIT SIGN (ARROW INDICATES DIRECTION)	
	EXIT (# INDICATES NUMBER OF OCCUPANTS USING EXIT)	
	FIRE HYDRANT	
	FIRE EXTINGUISHER	
	1-HOUR FIRE BARRIER (OCCUPANCY SEPARATION)	
	EXISTING WALL	
	NEW WALL	