DOCUMENT 00 91 00

ADDENDA

**ADDENDUM NUMBER ONE (001)**

DATE: May 22, 2025

PROJECT: **Caribou Police Facility**

PROJECT NUMBER: Artifex Project No. 2023102

CLIENT: City of Caribou
25 High Street
Caribou, ME 04736

ARCHITECT: Artifex AE

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated April 30, 2025, with amendments and additions noted below.

The Bidder is to acknowledge receipt of this Addendum in the space provided in the Bid Form of the Project Manual. Failure to do so may disqualify the Bidder.

This Addendum consists of eight **(8)** pages, plus noted attachments and specifications.

1.0 **Changes to Bidding:**

1.01 DOCUMENT 00 43 23 - ALTERNATES FORM

**1.02** IMPORTANT NOTE: **Please use the Structural drawings' details for the proper definition of the structural aspects of the Project. Architectural sheets are illustrative ONLY and do not necessarily provide complete accurate structural data.**

2.0 **Questions Received**

2.01 **Question:** *Please have the Architect clarify the intent of Alternate #4 Ballistic Glass… not sure exactly what is happening as drawings already show fiberglass windows as non-ballistic rated*

**Answer: The drawings currently reflect Non-ballistic conditions at the windows on the south and east facades. Alternate 4 is to be removed from the Bidding**

*2.02* **Question:** *window type W4 is non-ballistic rated… the frame and glazing needs to be provided by your hollow-metal frame and door provider.*

**Answer: That is correct.**

*2.03* **Question:** *Please verify if the STC value or the OITC value take precedence in the above request since both values are the exact same. We need to use different IGU's depending on which is the actual requirement. If it's STC 26, we can use our standard double pane Low-E glass packages. If it's OITC 26, we would most likely need to source custom 4mm on 6mm IGU's.*

**Answer: The STC value is correct to use.**

*2.04* **Question:** *Is the grey tint an actual project requirement? I ask because 99% of the time it is not, and it will just force us to overprice our units if tint is not required. Additionally, Inline does not have NFRC certified thermal performance values when using an color tint in the IGU's.*

**Answer: Not sure where in the Specifications you are finding this requirement?**

*2.05* **Question:** *In the specs it calls out for Impact rated* ***windows****. Is this an actual project requirement? If so, Inline cannot provide product for this project since we do not have impact rated windows. Please advise.*

**Answer: Could you be specific about where in the Specifications this requirement is referenced?**

*2.06* **Question:** *Is the added cost for the specified engineering approval of the cold-formed metal framing going to be required?*

**Answer: We assume that this question is based on the Project Manual Specifications #054000.3.6.A, Field Quality Control.**

**The design of the cold-formed metal assemblies used in this work is a "designated design"; The intent of the Specification is that the engineer responsible for the design of the cold-formed metal assemblies be satisfied that the work that has been performed in a manner that is consistent and suitable to the design intent. The cost and extent of that effort necessary is expected to be determined by the design engineer.**

*2.07* **Question:** *Is the AISC qualification required for the structural steel erector?*

**Answer: We assume that this question is based on Project Manual Specifications #051200.1.6.A, Quality Assurance.**
**AISC Certification of the "Installer" (Erector) is called for, per the Specification. Alternatively, an experienced Erector that is *capable to meet the standards of* the AISC Quality Certification Program *and is qualified to be* an AISC-Certified Erector, Category CSE, may be accepted**

*2.08* **Question:** *How will Tariffs be dealt with after the date of this proposal that cause an increase in estimated cost?*

**Answer: As this project is subject to BABA Restrictions and conditions, we assume that the effects of tariffs will be limited. If price increases are extreme, after the fact, they will be dealt with during the construction process.**

*2.09* **Question:** *There are Division 12 specifications in the Table of Contents of the spec book but these sections are not in the book.*
**Answer: See Items under 4.0.**

*2.10* **Question:** *Drawing A105 Equipment Schedule matrix indicates items to be Contractor Furnished/Contractor Installed. These items aren't in the specifications.*
**Answer: To Be Determined**

*2.11* **Question:** *The flagpole specification describes both aluminum and fiberglass flagpoles, both in bronze. Which material is intended?*
**Answer: Either material is acceptable. We are looking for the lowest priced alternative.**

*2.12* **Question:** *I don't see a typical site pad detail – Please Clarify*
**Answer: Not sure where you are concerned with site "pad"?**
**The Generator pad is shown on Sheet E5.6**
**The concrete pad for the tower will be delegated design as part of the allowance for the tower.**
**The pad for the Heat pump has a note on sheet M1.1 that indicates it should be a 4" concrete slab, reinforcing shall comply with note 9 under CONCRETE REINFORCING NOTES indicated on sheet S001**

*2.13* **Question:** *Can steel pipe bollards with integral precast bases be allowed as opposed to the site formed/installed indicated on the plans?*
**Answer: That would be a substitution and is not acceptable at this point. We might consider as cost-saving later in the process.**

*2.14* **Question:** *The Landscape Plan shows 3 flagpoles and the Site Plan shows 2. They are also shown in different locations on the 2 plans. Which is correct?*
**Answer: The site plan shows the correct number (2) and location of the flagpoles. Please refer to the Landscape Plan strictly for landscaping information..**

*2.15* **Question:** *Will emailed bids be acceptable?*
**Answer: No.**

*2.16* **Question:** *Main Entrance door #100A hardware is not addressed within the "Aluminum Framed Entrances and Storefront" or the "Finish Hardware" Spec*
**Answer: Per 08 41 13:Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware. Standard Storefront Hardware + card readers per security system to match finish at door is appropriate for this door**

*2.17* **Question:** *Is the storefront to have ballistic-rated frame and door and option for non-ballistic-rated frames and door? Is this what the Alternate #4 is referring to?*

**Answer: Ballistic protection is to be provided at 103A and 101B. See item 2.01**

2.18 **Question:** *Re: Exterior storefront types SF-1 & SF-2. Are these to be standard storefront metals with Level IV Ballistic-Rated UL 752 glass in the lower lites, or does the whole system need to be rated ballistic, storefront and glass?*

**Answer: Neither SF-1 nor SF-2 need to be ballistic rated in any form.**

2.19 **Question:** *Is there an anticipated start and completion date for bidding purposes. This would affect winter conditions.*

**Answer: There is no specified start date. The City would like to start as soon as possible. The specified completion date is December 31, 2026.**

2.20 **Question:** *On Detail 2/A403 we are seeing damp-proofing drawn and specified for a basement condition. This is not a normal application when there is occupied space on the other side of the foundation wall. Damp-proofing is not a waterproof membrane and is only intended to be used as a foundation coating at frost wall conditions. We suggest the use of a sheet waterproofing membrane like Grace Bituthane 3000 or Grace Procor 75 fluid-applied waterproofing membrane. Is the intent to keep water out or just protect the concrete?*

**Answer: Although the basement is strictly a mechanical space, we believe that it would be appropriate to apply a waterproof membrane to the two walls under the building slab to the west and south of the basement space. The exterior walls would be treated solely with the specified dampproofing. Either the Grace Bituthene 3000 or Procor 75 are acceptable.**

2.21 **Question:** *CLG-1 is an Armstrong Securelock Plus ceiling. I don't see a spec for it to know the specifics. It's drawn different on the RCP. Looking for the specifications to be able to properly quote it.*

**Answer: See Specifications Section 09 54 00 – Metal Ceilings.**

2.22 **Question:** *There are AWP-1 panels. There is no spec for it. Was curious what the thickness is or color selection*

**Answer: The AWP-1 panels are a fabric covered tectum panel. 5/8" thickness – no color or covering selected at this time.**

2.23 **Question:** *CLG-4 is an ATAS metal ceiling. Any differences between interior and exterior?*

**Answer: No.**

2.24 **Question: Regarding specified storage: I do not see any** *specifications on the* Spacesaver *equipment? Typically it is in Division 10 specifications.*
*I see on the equipment schedule that Spacesaver is noted for the Personal Storage locker, evidence lockers, weapons rack locker and high density storage* Answer:
Correct – or approved equal.

*The pass through evidence lockers – one locker notes a mesh rear door. Is that the only locker you want the mesh door? The others will be solid? Is there a reason for the mesh back?*

*You also have tracking software for the evidence lockers – control loc technology included in the lockers. Does the department have an evidence software currently?* *Answer: No.*

*Is Caribou PD going to buying the high density storage system themselves? Not through the contractor? Are the rails going to be recessed during construction? Or added on top of the slab after the building is complete?* *Answer: We are providing the structural slab necessary to support the high-density system. Any rails or other parts of the system will be an addition by the Owner after completion of the building.*

*For the duty lockers, evidence lockers and Weapons Rack, will the contractor be installing them? Or do you need Donnegan to install the lockers?* *Answer: This is for the General Contractor to determine. It is not required by the Architect.*

*On the weapons locker: The part number is only the cabinet, no internal components. Do you know how many long guns, pistols and ammo they may be looking to put into the locker? What room will this cabinet be located*?
**Answer: Room 147 - Armory.**

**2.25 Question***: Is there a housewrap or weatherproofing required for the wall panel siding? We do see the self-adhered membrane for the roof. Would we be weatherproofing behind siding by using the fluid-applied membrane shown in SECTION 07 27 26?*
**Answer: Yes. The air-barrier is applied to the CMU under the exterior insulation. The insulation board is the foam-plastic Board 2 per Section 07 21 00**

**2.26 Question:** *There is no detail on the thickness of insulation on the roof, but scaling the drawings this looks to be 5.5" thick. The listed manufacturers for Nail-Base insulation do not have an insulation board thicker than 4". Do we need to loose lay a 1.5" insulation beneath the 4" nail base to achieve 5.5"?*
**Answer: Refer to Detail Sheet A-500.**

**2.27 Question:** *Insulation thickness on exterior walls underneath siding?*
**Answer: Per A-400 sheets: 4".**

**2.28 Question:** *I see in the contract documents that there is approximately 300 days to complete this work. Is there a specified start or completion date?*
**Answer: There is no specified start date. The City would like to start as soon as possible. The specified completion date is December 31, 2026.**

**2.29 Question:** *The following are roofing system questions:*
- **2.29.1** *A500 shows RA1 Roof Assembly Types Details as 5 ½" Insulation and ½" cover board.* **Answer: Yes.**
- **2.29.2** *RA1 Schedule Description on A500 shows 6" Insulation with ½" High Density Insulation.* **Answer: Insulation to be of thickness required to reach value of R=35.**
- **2.29.3** *A500 shows RA1 over a metal deck. S403 and S404 details show 7/8" plywood over wood trusses and nail-base insulation. Is the entire roof*

*getting a metal deck or a wood deck?* **Answer: The highest roof, supported by metal trusses has been re-named RA1 and has a metal deck. The lower roof has been re-named RA1a, supported by wood trusses, has a plywood deck.**

**2.29.4** *Wouldn't a cover board or ½" HD insulation be used for single ply membrane applications? We are concerned with the adhesion of HT ice and water shield.* **Answer: Please bid per the drawings with HT Ice and Water Shield. We will look at this detail with the selected contractor if revision is desired.**

**2.29.5** *In lieu of RA1 assembly, can we use bottom layer 3 ½" Hunter Panel H Shield and top layer 2" Hunter Panel H Shield NB 5/8" Plywood? H Shield NB does not have ½" nail base options except for OSB. We do not recommend OSB on the roof.* **Answer: That is an acceptable Alternate.**

**2.29.6** *The rake length for the roof panel will be approximately 44'. Can the listed manufacturers provide a 45' long panel?* **Answer: We understand that is available**

**2.29.7** *A500 shows an RA2 Roof Assembly. Looking at the A500 Roof Plan, we do not see where this would be used.* **Answer: RA2 is an interior roof over the Duty Office (Rm 126)**

**2.29.8** *We see the spec calls for a snap-lock style standing seam panel that does not require a mechanical seam. Can you confirm both manufacturers offer the specified weathertight warranty with the specified snap lock rib?* **Answer: The basis of design manufacturer offers this warranty. Possible equal products will need to qualify as well.**

**2.29.9** *Do the listed ice and water shield manufacturers meet warranty with the metal roof manufacturer?* **Answer: Contractor to coordinate.**

**2.29.10** *Does this project have any FSG wood certification requirements?* ***Answer: No.***

**2.29.11** *We have experienced other projects where Everlast Roofing was unable to provide shop drawings.* **Answer: Shop drawings are a required part of the contractor's responsibilities.**

**2.29.12** *We do not see any thru roof penetrations for mechanical on M5.1 and M5.2. Please confirm.* **Answer: Through-roof penetrations were avoided to the maximum extent possible. There may be some vent pipes required, but we will need to approve any through-roof penetrations prior to installation.**

**2.29.13** *P5.1 shows a thru roof vent stack detail. Spec is listing a preformed flashing sleeve for vent stack. Typically we install a dektite pipe boot and flash properly to meet manufacturer warranty. Please advise.* **Answer: Refer to prior answer above. We will review any penetrations prior to installation.**

**2.29.14** *Do you have a manufacturer for the composite Z Girt in the A100 wall assembly?* **Answer: Refer to your wall system manufacturer for direction.**

**2.29.15** *SECTION 07 21 00 2.3 states Hunter Panel Xci with ¾" plywood for exterior wall insulation. A100 Wall Assembly does not show plywood as part of the assembly.* **Answer: The Hunter panels are at the roof.**

**2.29.16** *SECTION 07 71 00 2.6 states Roof-Edge Fascia must be a manufactured 2 piece metal. Can we just order prefinished flat sheet from the metal*

*roofing manufacturer and either field bend on site or bend at manufacturer? None of the Roof-Edge Flashing manufacturers match the Standing Seam/Wall Panel Manufacturers.* ***Answer: Site bending of roof edge fascia is possible as long as the height of the fascia meets the intent of the drawings for full coverage.***

**2.30 Question:** *Spec Section 00 22 13.45 and Section 00 43 73 Conflict. Can a Schedule of Values be submitted after the bid (Section 00 22 13.45)?*
**Answer: Yes. It is expected that if you are selected that a Schedule of Values will be submitted upon notification..**

**2.31 Question:** *At the wall ends of the stainless steel countertops how does the countertop end finish?*
**Answer: With the same splash as the back per detail.**

**2.32 Question:** *There is a specification section 06 10 53 Miscellaneous Rough Carpentry in the Table of Contents but no spec section included.*
**Answer: The Section 06 10 53 has been removed from the Table of Contents.**

**2.33 Question:** *Please specify 5" composite Z-Girts to be used at exterior wall metal siding.*
**Answer: Refer to Answer at 2.29.14 and your wall system manufacturer.**

**2.34 Question:** ***Re:*** *Slabs on Deck – The 1st Floor slab on deck above the basement Equipment Room is noted as a 5 ½" slab on 1 ½" deck. The relating sections on drawings S401 & S402 indicate the 5 ½" from top of slab to bottom of deck. The Floor Assembly Types on drawing A100 indicate the 5 ½" is top of concrete to TOP of metal deck. Similar case with the Mechanical Mezzanine slab on deck.*
**Answer: As per industry standard, and per the Structural drawings, the slab thickness of 5 ½" is the total thickness of the slab, metal deck inclusive. (5 ½" thick concrete slab on metal deck = 1 ½" profile metal deck with 4" minimum concrete topping depth above the top of the deck top flutes.) The architectural drawings are not indicated correctly. The Mechanical Platform slab is similar. See Structural details.**
**Please use the Structural drawing details for the proper definition of the structural aspects of the Project.**

**3.0 Changes to General Documents:**

DOCUMENT 00 43 23 - ALTERNATES FORM – Bid Alternate , former item D, alternate 4 has been removed. New form attached to these documents

**4.0 Changes to the Specifications:**

**DELETE** from Specifications**:**
09 54 23 Linear Metal Ceilings

**ADD** to Specifications:
Section 09 54 00 – Metal Ceilings
Section 12 36 61.16 Solid Surfacings
Section 12 48 13 Floor Mats, Grilles, and Frames

**REVISED** Specifications:
Section 00 01 10 Table of Contents
Section 00 23 00 Alternates

**3 Changes to the Plans:**

NONE

**4 Attachments:**

6.01 Minutes of Pre-Bid Meeting
6.02 Pre-Bid Meeting Attendance Sheet
6.03 Section 00 01 10 Table of Contents
6.04 Document 00 43 23 - Alternates Form
6.05 Section 01 23 00 – Alternates
6.06 Section 09 54 00 – Metal Ceilings
6.07 Section 12 36 61.16 Solid Surfacings
6.08 Section 12 48 13 Floor Mats, Grilles, and Frames

-- END OF DOCUMENT --

ARTIFEX
architects & engineers
175 Exchange Street
Bangor, ME 04401

# Pre-Bid Meeting Notes

| Meeting Date/Time: | Meeting Location: |
|---|---|
| May 21st, 2025 @1:00pm | Caribou City Hall |
| **Bid Due Date:** | **Project Number:** |
| June 12, 2025 @2:00pm | 2023102 |

1. Introductions
   a. Penny Thompson, City Manager, Caribou
      pthompson@cariboumaine.org

   b. Ellen Angel, Ames Associates
      eangel@amesmaine.com

   c. Chief Corey Saucier, Police Chief
      Corey.saucier@cariboumaine.org

2. Procurement and Contracting Requirements:
   a. Instructions to Bidders.
      i) There is State Sales, Use, or excise taxes
   b. Insurance. Section 3-A General Conditions
      i) Workers' Compensation
      ii) General Liability Insurance
      iii) Automobile Liability
      iiii) Owner's Protective Liability (Owner as Insured) $1,000,000
   c. BABA
   d. Bid Security.-
      i) Bid Bond required
      j) Performance and Payment Bonds required
   e. Bid Form and Attachments. –
      1) Allowances: Allowance No. 1: Lump-Sum Allowance: Include the sum of $30,000.00: Include Radio Communication tower.
         This allowance includes material, receiving, handling, and installation costs, and Contractor overhead and profit.
      2) Unit Prices: Unit Price No. 1 – Price per tree for Trees listed with SYMBOL: a. PG b. PS
      3) Alternates: 8 Alternates (attached)
   f. Notice of Award , if bids within budget, as soon as possible

3. Communication during Bidding Period:

   a. Obtain documents: digitally through Architect; eangel@artifexae.com

      i) All REGISTERED Bidders

b. Bidder's Requests for Information.
   i) Via email
c. Bidders can request 'equal' approval for bidding – no substitutions prior to award. Bids based on substitutions may be required to provide specified element.
d. Addendum 001 to go out by Friday, May 23, 2025.

4. Contracting Requirements:

   a. Agreement. In Project Manual
   b. The General Conditions. AIA – A201 of Project Manual
   c. Other Owner requirements.
      i)Change Orders fully transparent and documented – maximum 12% Genl Conditions/O/P

5. Construction:
   a. Temporary Facilities.
      i)Restrooms and water provided by Contractor
      ii)Electricity to be coordinated by contractor with Versant, bill to be paid by Owner
   b. Use of Site.- limited to area outlined on drawings as extents
   c. Work Restrictions – per specifications 7 – 7 .
   d. Alternates, Allowances, and Unit Prices (Item 2e and attached)
   e. Substitutions following award are possible – see 3c above.

6. Schedule:

   a. Project Schedule – Construction to start as soon as possible after award. 300 days (10 months) are allotted for construction/general conditions. Contract allows for completion by December 31, 2026.
   b. Liquidated Damages - none

7. Site visit or walkthrough.
8. Post-Meeting Addendum – attached.

| | |
|---|---|
| **Project:** | Caribou Police Facility |
| **Project No:** | 2023102 |
| **Date:** | May 21, 2025 |

ARTIFEX architects & engineers

## ATTENDEES

| | NAME | COMPANY | PHONE | E-MAIL | |
|---|---|---|---|---|---|
| 1 | Ellen Angel | Artifex AE | 745-0237 | eangel@artifexae.com | |
| 2 | Penny Thompson | City of Caribou | | pthompson@cariboumaine.org | |
| 3 | [illegible] | [illegible] | 492-5921 | [illegible] | HVAC |
| 4 | Parker Walker | Nickerson & O'Day | 207-989-7408 | pwalker@nickoday.com | |
| 5 | Scott M. Cove | Soderberg Co. Inc | 207-227-7759 | Scott@Sodcom.com | Earth |
| 6 | Zackery Burrell | Benchmark construction | 207-591-7600 | krice@benchmarkconstruction.org | |
| 7 | Andrew Michaud | AM Construction | 551-6235 | amconstruction.andrew@gmail.com | |
| 8 | Brian Powers | Powers Roofing | 227-5778 | brian@powersroofing.com | Roof |
| 9 | JAN MURCHISON | VOLUNTEER W/CITY | 944-1687<br>492-1062 | janine.murchison@gmail.com | |
| 10 | Scott N Ouellette | ABM Mechanical Inc | 207-944-7881 | souellette@abmmechanical.com | HVAC |
| 11 | James McLaughlin | The Allen Company | 207-551-1051 | jamesmc@theallencollc.com | Gen. |

| | |
|---|---|
| **Project:** | Caribou Police Facility |
| **Project No:** | 2023102 |
| **Date:** | May 21, 2025 |

ARTIFEX architects & engineers

| | | | | |
|---|---|---|---|---|
| 12 Corey Saucier | Caribou PD | 493-3301 | | Corey.saucier@cariboumaine.org |
| 13 Karen Gorman | Caribou City | | | kgorman@caribou.me.org |
| 14 Philip McDonough | Caribou PD | | | Philip.J.McDonough@cpd.org |
| 15 Joan Theriault | Caribou City Council | (online) | | joan.theriault@caribou maine.org |
| 16 Bob Young | Bowman Construction | (online) | | |
| 17 Dan Smith | Suffolk Construction | (online) | | |
| 18 Justin Atkinson | Sheridan Construction | (online) | | |
| 19 Jon Harbison | Harbison Plumbing, Heating & A/C | (online) | | |
| 20 Jill | Construction Summary | (online) | | |
| Joel Nelson | Sheridan Construction | (online) | | |
| Mike San Antonio | Devoe Construction | (online) | | |
| Patrick Lajoie | County Electric | (online) | | |
| Tyler Coffin | Gannestan Construction | (online) | | |

SECTION 00 01 10 – TABLE OF CONTENTS

END OF DOCUMENT 00 01 10

# DOCUMENT 00 43 23 - ALTERNATES FORM

## 1.1 BID INFORMATION

A. Bidder: _____.

B. Project Name: New Caribou Police Facility

C. Project Location: 25 Birdseye Ave., Caribou, Maine 04736

D. Owner: City of Caribou

E. Architect: Ellen Angel, Artifex AE

F. Architect Project Number: 2023102

## 1.2 BID FORM SUPPLEMENT

A. This form is required to be attached to the Bid Form.

## 1.3 DESCRIPTION

A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.

B. If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."

C. If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."

D. The Bidder shall be responsible for determining from the Contract Documents the effects of each alternate on the Contract Time and the Contract Sum.

E. Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within 60 days of the Notice of Award unless otherwise indicated in the Contract Documents.

F. Acceptance or non-acceptance of any alternates by the Owner shall have no effect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

1.4 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Dispose of debris:

1. DEDUCT_____Dollars ($_____).

B. Alternate No. 2: Paving access drive at East:

1. ADD_____ Dollars ($_____).
2. ADD_____ calendar days to adjust the Contract Time for this alternate.

C. Alternate No. 3: Security fence and gate at south perimeter :

1. DEDUCT_____Dollars ($_____).

D. Alternate No. 5: Ground face at interior CMU

1. DEDUCT_____Dollars ($_____).
2. DEDUCT/ADD _____ calendar days to adjust the Contract Time for this alternate

E. Alternate No. 6: Security ceilings in evidence storage areas

1. DEDUCT_____Dollars ($_____).

F. Alternate No. 7: Sealed Concrete in Sallyport

1. DEDUCT_____Dollars ($_____).
2. DEDUCT/ADD _____ calendar days to adjust the Contract Time for this alternate

G. Alternate No. 8: Masonry Veneer at North and East Elevations

1. DEDUCT_____Dollars ($_____).

2. DEDUCT _____ calendar days to adjust the Contract Time for this alternate

1.5 SUBMISSION OF BID SUPPLEMENT

A. Respectfully submitted this ____ day of _____, 2025

B. Submitted By:_____(Insert name of bidding firm or corporation).

C. Authorized Signature:_____(Handwritten signature).

D. Signed By:_____(Type or print name).

E. Title:_____(Owner/Partner/President/Vice President).

END OF DOCUMENT 00 43 23

# SECTION 01 23 00 - ALTERNATES

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

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

### 1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

### 1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

### 1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other Work of the Contract.

C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Dispose of debris

1. Base Bid: General Contractor to remove all debris and dispose of off-site per Section 02 41 19 - SELECTIVE STRUCTURE DEMOLITION.
2. Alternate: Dispose of debris from demolition of existing paving and concrete structures on site

B. Alternate No. 2: Access Driveway at east side of building

1. Base Bid: Gravel surface per Civil.
2. Alternate: Fully paved drive – details similar to parking access drive

C. Alternate No. 3: Decorative security fence and gate at south perimeter

1. Base Bid: Decorative security fence and gate at south perimeter of badged lot per Civil.
2. Alternate: Replace this portion of fencing with black chain link (same material as remainder of fencing)

~~D. Alternate No. 4: Ballistic Glass~~

~~1. Base Bid: Exterior ballistic glazing as shown on elevations and window schedule~~
~~2. Alternate: Replace ballistic glazing at south facing rooms with fiberglass windows similar to remainder of building~~

E. Alternate No. 5: Ground face CMU

F. Alternate No. 6: Security ceilings in evidence storage areas

1. Base Bid: Security ceiling as shown on plans and Ceiling finish schedule.
2. Alternate: In lieu of security ceilings, install two (2) layers of finished type 5/8” type X gypsum with expanded metal lath in between attached directly to bottom chord of truss with 1x trim board as required to conceal top plates

G. Alternate No. 7: Sealed Concrete in Sallyport

1. Base Bid: Epoxy coating as shown on plans and Finish Schedule.
2. Alternate: Remove Epoxy coating and Replace with concrete sealer.

H. Alternate No. 8: Masonry Veneer at North and East Elevations

1. Base Bid: Masonry Veneer on concrete wall from 8” below grade to +2’-9” (two-feet nine inches) above First Finished Floor (AFF).
2. Alternate: Remove Masonry Veneer at North and East elevations and continue foundation concrete up to 8” below finish floor. Begin Masonry Veneer at 8” below finish floor to + 2’-9” AFF. (40” total)

END OF SECTION 01 23 00

# SECTION 09 54 00 - METAL CEILINGS

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

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

### 1.2 SUMMARY

A. Section includes
   1. strip linear metal pans
   2. Acoustical metal ceiling panels
   3. suspension systems for ceilings.

B. Related Sections:

   1. Section 095113 "Acoustical Panel Ceilings" for ceilings consisting of mineral-base and glass-fiber-base acoustical panels and exposed suspension systems.

### 1.3 DEFINITIONS

A. LR: Light Reflectance coefficient.

B. NRC: Noise Reduction Coefficient.

### 1.4 PERFORMANCE REQUIREMENTS

A. Structural Performance: Exterior linear metal ceilings shall withstand exterior exposure and the effects of gravity loads and the following loads and stresses without showing permanent deformation of ceiling system components including pans and suspension system; noise or metal fatigue caused by vibration, deflection, and displacement of ceiling units; or permanent damage to fasteners and anchors.

   1. Wind Load: Uniform pressure of 30 lbf/sq. ft. (1436 Pa) acting inward or outward.

B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

   1. Temperature Change (Range): deg F (100 deg C), material surfaces.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Performance Data: For installed products indicated to comply with design loads and other criteria, include structural analysis and other analytical data signed and sealed by the qualified professional engineer responsible for their preparation.

C. Samples for Initial Selection: For components with factory-applied color and other decorative finishes.

D. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of appropriate size.

1.6 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Linear pattern.
2. Joint pattern.
3. Ceiling suspension members.
4. Method of attaching hangers to building structure.

    a. Furnish layouts for cast-in-place anchors, clips, and other ceiling attachment devices whose installation is specified in other Sections.

5. Ceiling-mounted items including light fixtures, diffusers, grilles, speakers, sprinklers, and access panels.
6. Ceiling perimeter and penetrations through ceiling; trim and moldings.
7. Minimum Drawing Scale: 1/8 inch = 1 foot.

B. Evaluation Reports: For linear metal ceiling and components and anchor type.

C. Field quality-control reports.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For finishes to include in maintenance manuals.

1.8 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Linear Metal Ceiling Components: Quantity of each pan, carrier, accessory, and exposed molding and trim equal to 2 percent of quantity installed.

1.9 QUALITY ASSURANCE

A. Source Limitations: Obtain each set of linear metal pans and suspension systems from one source with resources to provide products of consistent quality in appearance, physical properties, and performance.

B. Surface-Burning Characteristics: Complying with ASTM E 1264 for Class A materials, as determined by testing identical products according to ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Deliver linear metal pans, suspension system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.

B. Handle linear metal pans, suspension system components, and accessories carefully to avoid damaging units and finishes in any way.

1.11 PROJECT CONDITIONS

A. Environmental Limitations: Do not install linear metal ceilings until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.12 COORDINATION

A. Coordinate layout and installation of linear metal pans and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

PART 2 - PRODUCTS

2.1 LINEAR METAL CEILING PANS

A. Provide Box linear metal panel ceiling system manufactured by CertainTeed Architectural; 5015 Oakbrook Parkway, Suite 100, Norcross, GA 30093. Tel: (800) 366-4327 or equal.

B. Sheet Metal Characteristics: For metal components exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, roughness, stains, or discolorations.

C. Linear metal panel ceiling system for (interior & exterior) installations:
1. Panel Profile Type: Box 4, roll formed, (.025” interior/exterior thick aluminum with square edges; 3 5/32” wide, 17/32” deep with 27/32” reveal to form a 4” module.

2. Panel length: minimum 3' – maximum 16'
3. Closure: Recessed Closure required for exterior applications.
   a. Finish: Natural

D. Linear Suspension System:
1. Carrier: Universal hat-shaped, .038" roll-formed aluminum section with hook-shaped tabs spaced to receive ceiling panels at 2" on-center and 27/32" apart. Support holes spaced 4" on-center. Finish: Factory-applied black enamel.
2. Hanger Wire: 12 gage galvanized carbon steel hanger wire.
3. Seismic/Wind Uplift Compression Struts: 1-1/2” (38 mm) deep, 16 Ga., cold-rolled steel “C” channels.

A. Panel Finish:

1. Paint; color to be selected by architect

   a. Powder Coat

E. End Caps: Manufacturer's standard material; fabricated to fit and conceal exposed ends of pans.

F. Filler Strips: Manufacturer's standard material; fabricated to uninterruptedly close voids between pans.

G. Moldings and Trim: Provide manufacturer's standard moldings and trim for exposed members, and as indicated or required, for edges and penetrations of ceiling, around fixtures, at changes in ceiling height, and for other conditions; of same metal and finish as linear metal ceiling pans.

## 2.2 ACCOUSTIC METAL PANEL CEILING

A. Provide Acoustic metal panel ceiling MetalWorks SecureLock Plus system manufactured by Armstrong World Industries or approved equal;.
2. Surface Texture: Smooth

3. Composition: Electrogalvanized 14gauge galvanized steel with postproduction powder coated paint finish

4. Color: White (WH)

5. Size: 24 inch widths, up to 12 foot lengths

6. Edge Profile: Screw In Concealed Locking (tested to withstand 960 – 3100 lbs. of force)

7. Perforation Option: Unperforated-P1

2.3 METAL SUSPENSION SYSTEMS

A. Linear Suspension System:

1. Carrier: Universal hat-shaped, .038" roll-formed aluminum section with hook-shaped tabs spaced to receive ceiling panels at 2" on-center and 27/32" apart. Support holes spaced 4" on-center. Finish: Factory-applied black enamel.

2. Hanger Wire: 12 gage galvanized carbon steel hanger wire.

3. Seismic/Wind Uplift Compression Struts: 1-1/2” (38 mm) deep, 16 Ga., cold-rolled steel “C” channels.

A. Wire Hangers, Braces, and Ties: Provide wire complying with the following requirements:

1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
2. Size: Select wire diameter so its stress at 3 times the hanger design load indicated in ASTM C 635, Table 1, Direct Hung will be less than yield stress of wire, Delete hanger

B. Carriers: Factory finished.

1. Main Carriers: Aluminum, not less than 0.240-inch (6.0-mm) rolled sheet, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, complying with ASTM B 209 (ASTM B 209M).

C. Carrier Splices: Same metal, profile, and finish as indicated for carriers.

D. Stabilizer Channels, Tees, and Bars: Manufacturer's standard components for stabilizing main carriers at regular intervals and at light fixtures, air-distribution equipment, access doors, and other equipment; spaced as standard with manufacturer for use indicated; and factory finished with matte-black baked finish.

E. Seismic Struts: Manufacturer's standard compression struts designed to accommodate seismic forces.

F. Hold-Down Clips: Manufacturer's standard hold-down clips spaced as standard with manufacturer.

G. Edge Moldings and Trim: Provide exposed members as indicated or required to comply with seismic requirements of authorities having jurisdiction, to conceal edges of penetrations through ceiling, to conceal ends of pans and carriers, for fixture trim and adapters, for fasciae at changes in ceiling height, and for other conditions; of metal and finish matching linear metal pans or extruded plastic unless otherwise indicated.

2.4 ACCESSORIES

A. Access Panels: For access at locations indicated, provide door hinge assembly, retainer clip, and retainer bar, assembled with ceiling panels and carrier sections into access doors of required size, permitting upward or downward opening.

2.5 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.6 ALUMINUM FINISHES

A. Mill Finish: AA-M10C10.

B. Lacquered Mill Finish: AA-M10C10R1x with manufacturer's standard clear, organic coating.

C. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

D. Clear Mirror Anodic Finish: AA-M21C12A212, 0.005 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, including structural framing and substrates to which linear metal ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of linear metal ceilings.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each ceiling area and establish layout of linear metal pans to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width or -length pans at borders, and comply with layout shown on reflected ceiling plans and Coordination Drawings.

3.3 INSTALLATION

A. General: Install acoustical metal pan ceilings, per manufacturers shop drawings provided, per manufacturer's written instructions and to comply with publications referenced below.

1. ClSCA “Ceiling Systems Handbook”

2. Standard for Ceiling Suspension System Installations - ASTM C 636

3. Standard for Ceiling Suspension Systems Requiring Seismic Restraint - ASTM E 580

4. IBC (International Building Code) Standard for Seismic Zone for local area

B. Suspend ceiling hangers from building's structural members and as follows:

1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.

2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, counter-splaying, or other equally effective means.

3. Where width of ducts and other construction within ceiling plenum produce hanger spacings that interfere with location of hangers at spacing required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices. Utilize supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.

4. Where used secure wire hangers to ceiling suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure; that are appropriate for substrate; and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.

5. Space hangers not more than 48” on-center, along each member supported directly from hangers, unless otherwise indicated; and provide hangers not more than 12” from ends of each member. Supply supporting calculations from licensed Structural Engineer verifying hanger spacing meets all requirements, when spacing exceeds those recommended.

6. Level grid to 1/8” in 10’ from specified elevation(s), square and true.

7. Adjust suspension system runners so they are square (within .5 degree from 90 degrees) and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

C. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers but without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or postinstalled anchors.

D. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical metal pan. Method of edge trim attachment and design of edge trims to be approved by Architect.

1. Screw attach moldings to substrate at intervals not more than 18” on-center and not more than 6” from ends, leveling with ceding suspension system to a tolerance of 1/8” in 10’. Miter corners accurately and connect securely.
2. Do not use exposed fasteners, including pop rivets, on moldings and trim without prior written approval, or unless detailed otherwise.

E. Install suspension system carriers so they are aligned and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

## 3.4 CLEANING

A. Clean exposed surfaces of linear metal ceilings, including trim and edge moldings after removing strippable, temporary protective covering if any. Comply with manufacturer's written instructions for stripping of temporary protective covering, cleaning, and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including dented and bent units.

END OF SECTION 09 54 23

# SECTION 12 36 61.16 - SOLID SURFACING COUNTERTOPS

## PART 1 - GENERAL

### 1.1 SUMMARY

A. Section Includes:

1. Solid surface material countertops.
2. Solid surface material backsplashes.
3. Solid surface material end splashes.

### 1.2 ACTION SUBMITTALS

A. Product Data: For countertop materials.

B. Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, and cutouts for plumbing fixtures.

C. Samples: For each type of material exposed to view.

## PART 2 - PRODUCTS

### 2.1 SOLID SURFACE COUNTERTOP MATERIALS

A. Solid Surface Material: Homogeneous-filled plastic resin complying with ISFA 2-01.

1. Basis of Design: Wilsonart Solid Surface
2. Colors and Patterns: Midnight Melange

B. Plywood: Exterior softwood plywood complying with DOC PS 1, Grade C-C Plugged, touch sanded.

### 2.2 FABRICATION

A. Fabricate countertops according to solid surface material manufacturer's written instructions and to the AWI/AWMAC/WI's "Architectural Woodwork Standards."

1. Grade: Premium.

B. Configuration:

1. Front: Straight, slightly eased at top, 1 1/2-inch high.
2. Backsplash: Straight, slightly eased at corner.
3. End Splash: Matching backsplash.

C. Countertops:

1. 1/2-inch- (12.7-mm-) thick, solid surface material with front edge built up with same material.

D. Backsplashes: 1/2-inch- (12.7-mm-) thick, solid surface material.

E. Joints:

1. Fabricate countertops without joints.

F. Cutouts and Holes:

1. Undercounter Plumbing Fixtures: Make cutouts for fixtures in shop using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves.

## 2.3 INSTALLATION MATERIALS

A. Adhesive: Product recommended by solid surface material manufacturer.

B. Sealant for Countertops: Comply with applicable requirements in Section 079200 "Joint Sealants."

# PART 3 - EXECUTION

## 3.1 INSTALLATION

A. Fasten countertops by screwing through corner blocks of base units into underside of countertop. Predrill holes for screws as recommended by manufacturer.

B. Fasten subtops to cabinets by screwing through subtops into cornerblocks of base cabinets. Shim as needed to align subtops in a level plane.

C. Secure countertops to subtops with adhesive according to solid surface material manufacturer's written instructions.

D. Install backsplashes and end splashes by adhering to wall and countertops with adhesive.

E. Complete cutouts not finished in shop. Mask areas of countertops adjacent to cutouts to prevent damage while cutting. Make cutouts to accurately fit items to be installed, and at right angles to finished surfaces unless beveling is required for clearance. Ease edges slightly to prevent snipping.

F. Apply sealant to gaps at walls; comply with Section 079200 "Joint Sealants."

END OF SECTION 12 36 61.16

# SECTION 12 48 13 - ENTRANCE FLOOR MATS, GRILLES, AND FRAMES

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

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

### 1.2 SUMMARY

A. Section Includes:

1. Recessed Floor Grilles
2. Recessed frames.
3. Drainage pans

### 1.3 COORDINATION

A. Coordinate size and location of recesses in concrete to receive floor grilles and frames.

### 1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for floor mats and frames.

B. Shop Drawings:

1. Items penetrating floor mats and frames, including door control devices.
2. Divisions between mat sections.
3. Perimeter floor moldings.

C. Samples: For the following products, in manufacturer's standard sizes:

1. Floor Grille: Sample of type and color.
2. Frame Members: Sample of type and color.

### 1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For floor grilles, mats, and frames to include in maintenance manuals.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Product: Construction Specialties PediTred G4, or approved equivalent.

2.2 FLOOR GRILLES

A. General: Provide manufacturer's standard floor-grille assemblies consisting of treads of type and profile indicated, interlocked or joined together by cross members, and with support legs (if any) and other components needed to produce a complete installation.

B. Aluminum Floor Grilles: Provide manufacturer's standard floor grilles with extruded members, top-surfaced tread rails, and as follows:

1. Tread Rails: Extruded-aluminum tread rails.

a. Aluminum Color: Clear anodized

2. Tread Insert: Heavy-duty Carpet

a. Tread Insert Color: Wrought Iron

2.3 FRAMES

A. Provide manufacturer's standard VV Embedded frames of size and style for grille type, for permanent recessed installation in subfloor, complete with installation anchorages and accessories. Unless otherwise indicated, fabricate frame of same material and finish as grilles.

2.4 SUPPORT SYSTEM

A. Level Bed Applications: Provide manufacturer's standard, vinyl cushion support system.

B. Drainage Pit Applications: Provide manufacturer's special deep-pit frame and support extrusion system with intermediate support beams, sized and spaced as recommended by manufacturer for indicated spans and equipped with vinyl support cushions.

2.5 DRAIN PANS

A. Provide manufacturer's standard 0.060-inch- (1.52-mm-) thick aluminum sheet drain pan with NPS 2 (DN 50) drain outlet for each floor-grille unit. Coat bottom of pan with protective coating recommended by manufacturer.

2.6 MATERIALS

A. Aluminum Sheet: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than strength and durability properties of Alloy 5005-H15.

B. Extruded Aluminum: ASTM B 221 (ASTM B 221M), Alloy 6061-T6 or Alloy 6063-T5, T6, or T52 as standard with manufacturer. Coat surface of frame in contact with cementitious materials with manufacturer's standard protective coating.

2.7 FABRICATION

A. Shop fabricate floor grilles to greatest extent possible in sizes as indicated. Unless otherwise indicated, provide each grille as a single unit; do not exceed manufacturer's recommended maximum sizes for units that are removed for maintenance and cleaning. Where joints in grilles are necessary, space symmetrically and away from normal traffic lanes.

B. Fabricate frame members in single lengths or, where frame dimensions exceed maximum available lengths, provide minimum number of pieces possible, with hairline joints equally spaced and pieces spliced together by straight connecting pins.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and floor conditions for compliance with requirements for location, sizes, minimum recess depth, and other conditions affecting installation of floor mats and frames.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install recessed mat frames to comply with manufacturer's written instructions. Set mat tops at height recommended by manufacturer for most effective cleaning action; coordinate tops of mat surfaces with bottoms of doors that swing across mats to provide clearance between door and mat.

1. For installation in terrazzo flooring areas, provide allowance for grinding and polishing of terrazzo without grinding surface of recessed frames. Coordinate with other trades as required.
2. Install necessary shims, spacers, and anchorages for proper location, and secure attachment of frames.
3. Install grout and fill around frames and, if required to set mat tops at proper elevations, in recesses under mats. Finish grout and fill smooth and level.

B. Install surface-type units to comply with manufacturer's written instructions at locations indicated; coordinate with entrance locations and traffic patterns.

1. Anchor fixed surface-type frame members to floor with devices spaced as recommended by manufacturer.

3.3 PROTECTION

A. After completing frame installation and concrete work, provide temporary filler of plywood or fiberboard in recesses and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and Project is near Substantial Completion.

END OF SECTION 12 48 13