SECTION 009113.1.3 – ADDENDUM NO. THREE (3)

Project: **Collins P. Lee Memorial Library**

Project No: **25114**

Date: **04/24/2026**

Client: **Baldwin County, Georgia**

Contract for: General Contracting

*This Addendum forms a part of the Procurement and Contracting Documents and Construction Drawings (Hereafter referred to as "Bid Documents") and modifies the original Bid Documents for the above referenced project. All attachments and pages are made part of this Addendum.*

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CHANGES TO THE CONTRACT DOCUMENTS

Note: The Contractor is responsible for disseminating all information within this Addendum and the associated Documents to his Sub-Contractors, Suppliers, Vendors, Manufactures and/or any entity that affects the Contractor's Bid.

Every effort has been made to identify with revision clouds (for updated drawings) and underline (for new or updated specifications) or strike-thru (for removed specifications) with yellow highlights all changes, updates and modifications as documented within this Addendum. However, if any specification and/or drawing has been changed, updated and/or modified and not identified as aforementioned, the Contractor remains responsible for incorporating this work into their Bid.

In an effort to ensure each prospective Bidder is using the current specification section, the entire specification section has been provided. It is recommended that the Contractor replace the below referenced drawings and specifications in their entirety from the original Bid Documents.

1.1 CHANGES TO THE PROJECT MANUAL

A. **SECTION 00 9113.1.3 – ADDENDUM NO. THREE (3)**
**Add** the new section.
Refer to the attached new section labeled **"Addendum No. Three (3)".**

B. **SECTION 00 3110 – PRELIMINARY CONSTRUCTION SCHEDULE**
**Replace** with the modified section.
Refer to the attached new section labeled **"Addendum No. Three (3)".**

C. **SECTION 00 3143 – PERMIT APPLICATION**
**Replace** with the modified section.
Refer to the attached new section labeled **"Addendum No. Three (3)".**

D. **SECTION 00 4321 – ALLOWANCE FORM**
**Replace** with the modified section.
Refer to the attached new section labeled **"Addendum No. Three (3)".**

E. **SECTION 02 9100 – SYNTHETIC TURF**
**Replace** with the modified section.
Refer to the attached new section labeled **"Addendum No. Three (3)".**

F. **SECTION 04 2613 – MASONRY VENEER**
**Replace** with the modified section.
Refer to the attached new section labeled **"Addendum No. Three (3)".**

G. **SECTION 09 6723 – RESINOUS FLOORING**
**Replace** with the modified section.
Refer to the attached new section labeled **"Addendum No. Three (3)".**

2.1 CHANGES TO THE DRAWINGS

A. **SHEET G110 – PROJECT INFORMATION:**
Refer to **G110, revised** dated **2026/04/24 Addendum 3**
(30" x 42" attachment). Updates are clouded and indicated with a **Delta 3**.

B. **SHEET I110 – FINISH LEGEND, BASE AND TRANSITION DETAILS:**
Refer to **I110, revised** dated **2026/04/24 Addendum 3**
(30" x 42" attachment). Updates are clouded and indicated with a **Delta 3**.

3.1 CLARIFICATIONS AND DESIGN INTENT:

A. Approved substitution requests:

1. **02 9100 – SYNTHETIC TURF**
   a. Artificial Turf: ForeverLawn Playground Grass Quest.
   b. Pour-in-Place Surfacing: ForeverLawn Playground Quest Colored Turf.

2. **04 2613 – MASONRY VENEER**
   a. Thermal-Grip Masonry Veneer Anchor by TruFast.

3. **09 6723 – RESINOUS FLOORING**
   a. Koster Resinous Flooring System.

4.1 QUESTIONS (REQUESTS FOR INFORMATION) SUBMITTED:

1. Q: What are the Davis Bacon Wages for this job? Is there a decision number for the project?

   *A:* This question will be responded to in a forthcoming Addendum.

2. Q: Sinks at Restrooms: Millwork detail on 9/A-820 shows an integral sink with the solid surface top but the plumbing drawings are calling for a corian undermount lavatory. Please confirm.

   *A: The specified corian lavatory is an undermount installation. The connection of the solid surface sink to the solid surface countertop should appear seamless, as demonstrated in the photo below.*

3. Q: Ceiling Insulation: Spec section 072100-3 calls for sound batt over ceilings but there is no mention of this in the drawings. Please confirm the areas to receive insulation above the ceiling.

   *A: Sound batt insulation is not required above ceilings.*

4. Q: Interior Storefront: Spec section 084113-5_2.2B calls for thermal interior framing but section 2.3A call for nonthermal framing. Please confirm.

   *A: Interior storefront framing to be nonthermal.*

5. Q: Landscape Scope: The specs include a planting section (02900) but no indication of landscaping in the drawings and no plant schedule. Please confirm scope.

   *A: Planting/landscaping scope is limited to seeding (or provide sod) at all disturbed areas around the building.*

6. Q: WS-1 Shade Location: Are window shades to be installed only at exterior windows?

   *A: Yes, these are only to be provided at exterior windows where noted.*

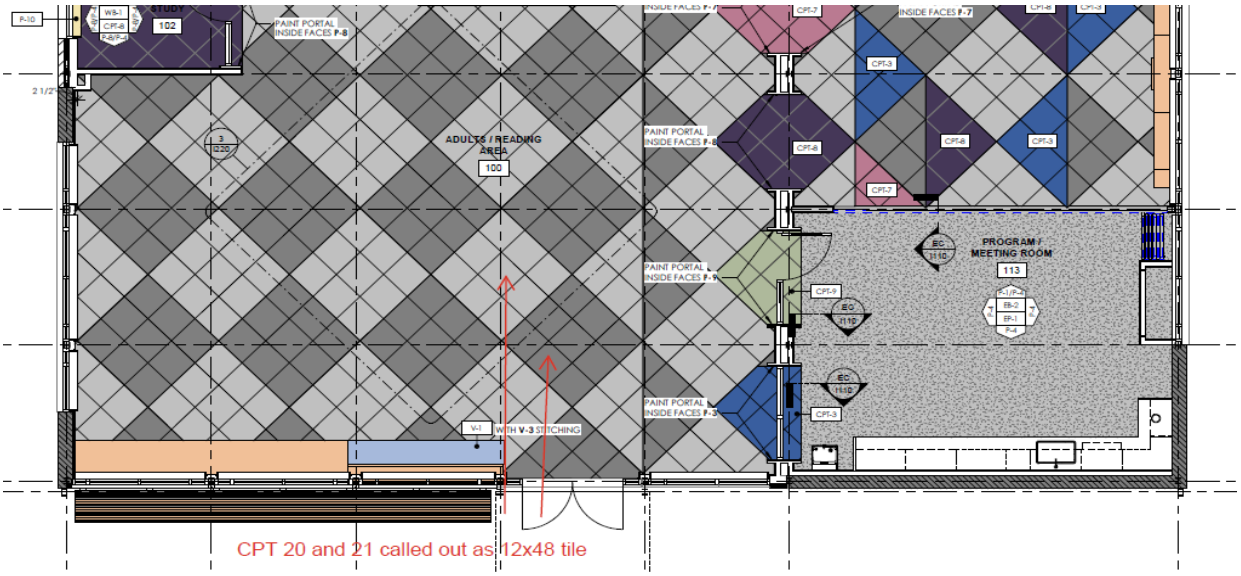
7. Q: Asbestos Clarification: RFI response #8 released as part of Addendum #1 says the county plans to perform asbestos testing on the floors, walls, and window. RFI response #1 released in Addendum #2 says it's the contractors responsibility. Please confirm. Abatement testing can vary in price which makes it difficult to get competitive pricing during the bid process. Can we suggest GCs carry the same allowance in their bid for any additional abatement?

   *A: The RFI response #1 in Addendum #2 supersedes the RFI response #8 from Addendum #1. All additional materials testing will be the responsibility of the contractor. Contractors shall carry a $10,000 allowance in their bids for material testing/abatement.*

8. Q: The window seat detail 3/A130 and 2/S300 shows the steel support tubes to penetrate through the wall and anchor on the existing concrete curb to remain. Can the steel support tube be redesigned to anchor on the new 4" Concrete topping slab over the existing slab to remain to improve a thermal insulation and water tightness seal?

   *A: No.*

9. Q: CPT-20 and CPT-21 are called out as J&J 1840 Against The Grain. These are 12x48 size tiles. Is this correct for the pattern shown below?




*A: No – refer to revised sheet I110. CPT-20 and CPT-21 are to be "Stipple, style 1838", which is a modular 24" x 24" square carpet tile.*

10. Q: Davis Bacon Wages: Will the wage rates be incorporated into the bidding documents to ensure all GCs bid on the same prevailing wage standards?

*A:* This question will be responded to in a forthcoming Addendum.

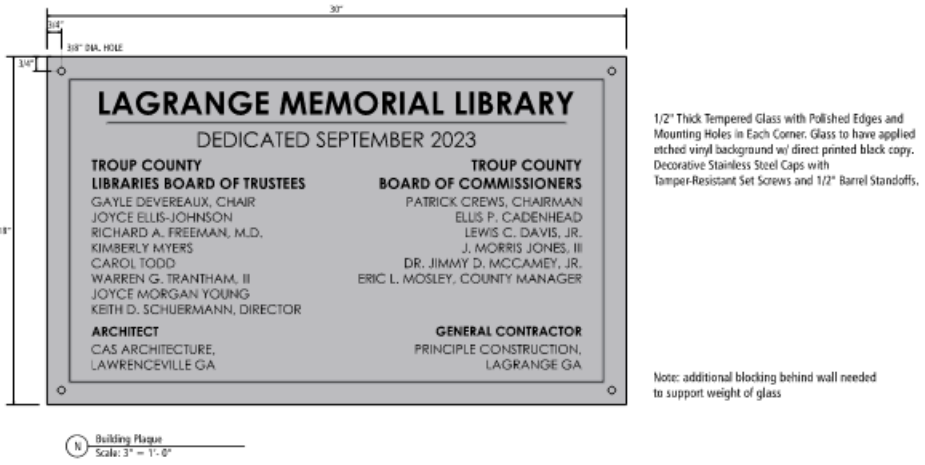
11. Q: Specification section 003143 states the Bidder is to include an allowance of $15,000.00 in their bid for permitting, but conflicting information was discussed at the pre-bid meeting. Can you please confirm this allowance is still applicable?

*A: Per discussion on site during the pre-bid meeting on 4/15/2026, permitting fees will not be required. The $15,000 allowance for permitting fees is not required.*

12. Q: I need clarification on the following Sign Types, please:
    1. Sign Type H: Can we provide a brushed aluminum frame the matches Sign Type B and C. We do not have a source for a circular frame as shown on Sheet I600.

2. Sign Type L: Can we provide a brushed stainless-steel panel, that has etched copy and infilled with paint. See attached example for the same type of sign we did for LaGrange Library.


3. Sign Type P: Confirm all that is required is a quote to install an existing "Framed Portrait".
4. Sign Type N: Can we provide a tempered glass panel with applied etched film on the background with direct printed copy? See attached example for the same type of sign we did for LaGrange Library.




5. Main Library Signage: Can we provide ¼" thick flat cut aluminum, in the custom font style that is shown on Sheet I600 with ¼" or ½" standoffs? Also, confirm if letters are brushed or painted.

*A: Answers:*

1. *Provide signage type H as shown on detail 4/I600.*
2. *This is acceptable.*
3. *Confirmed. Signage type P is a framed portrait that is to be salvaged from the existing community center, and re-installed in the new library. Final location to be coordinated with the owner.*

4. *Refer to Addendum 1 documents, dated 4/14/2026. Provide signage type N as shown on detail 8/I600.*
5. *Provide ½" thick flat cut aluminum with ¼" standoffs. Letters to be silver anodized as noted on sheet A520.*

13. Q: Questions:
1. Sheet A920 calls out round windows as SF-1.3 storefront. Specifications call out round windows by Pella. Please clarify.
2. Glazing specifications call for Solarban 70 clear over clear for all exterior storefront. Plans show colored glass. Please clarify.
3. Is all Interior glass ¼" thick?

*A: Answers:*
1. *Window types SF-1.3 and R-1 are both detailed as Pella Aluminum Clad Wood Circular Windows – refer to details 1/A912 and 2/A912. It is acceptable to make these aluminum storefront windows.*
2. *Refer to exterior glazing legend on sheet A920 for more information. Glass color and/or pattern is to be printed on the #3 surface of glass panels prior to installation.*
3. *Yes.*

14. Q: Is there any landscaping details other than what is on A640/A641 and spec 02 90 00?
From A640/A641:
FINISH GRADE TO REMAIN -ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOP SOIL MIXED WITH 20% MR. NATURAL COMPLETE LANDSCAPE MIX, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

*A: No – Planting/landscaping scope is limited to seeding (or provide sod) at all disturbed areas around the building.*

END OF SECTION 009113.1.3

# SECTION 003110 – PRELIMINARY CONSTRUCTION SCHEDULE

## PART 1 - GENERAL

### 1.1 DESCRIPTION

A. Work Included:

**1.** The Construction Schedule for the Project is provided in this section. This schedule includes specific dates shown in Items **1-14**.

### 1.2 GENERAL

A. See the Owner Contractor Agreement and General Conditions.

B. If all dates for Items **1** through **6** are maintained, then the dates for Items **6-14** become a fixed construction schedule.

C. Should the schedule for Items **5** through **6** be delayed, then all subsequent dates for Items **7** through **14** shall move forward by the same number of days Item **6** misses its schedule, except as conditions may be altered by the General and Supplementary Conditions.

### 1.3 SCHEDULE

A. The schedule dated for the project shall be strictly adhered to and are the last acceptable dates unless they are modified by mutual consent of the Owner and Contractor by written change order. All Dates indicate midnight unless otherwise stipulated.

B. PRELIMINARY SCHEDULE

| | | |
|---|---|---|
| **1.** | **Advertisement for Bids** | **March 26, 2026** |
| | a. Section 001113 – Advertisement for Bids | |
| **2.** | **Non-mandatory Pre-Bid Meeting** | **April 15, 2026 (11:00 am)** |
| | a. Section 001113 – Advertisement for Bids | |
| **3.** | **Last day for Bidder's Questions and Substitution Requests** | **April 29, 2026 (5:00 pm)** |
| | a. Section 001113 – Advertisement for Bids | |
| **4.** | **Last Addendum Date** | **May 1, 2026 (5:00 pm)** |
| | a. Section 001113 – Advertisement for Bids | |
| **5.** | **Sealed Bids Due (Bid Opening to follow)** | **May 8, 2026 (2:00 pm)** |
| | a. Section 001113 – Advertisement for Bids | |
| **6.** | **Tentative Notice of Award** | **TBD** |
| **7.** | **Contract Agreement Date / Start of Contract Time** | **TBD** |
| | a. Section 011000 - Summary | |
| **8.** | **Receipt of Contractor's Construction Schedule** | **14 days** from 6 |
| | a. Section 013200 – Construction Progress Documentation | |
| **9.** | **Receipt of Contractor's Schedule of Values** | **14 days** from 6 |
| **10.** | **Receipt of Bonds and Insurance** | **14 days** from 6 |
| **11.** | **Pre-construction Conferences** | **TBD** |
| | a. Section 011000 - Summary | |
| **12.** | **Substantial Completion** | **220 days** from 7 |
| | a. Section 001113 – Advertisement for Bids | |
| **13.** | **Final Completion** | **250 days** from 7 |
| | a. Section 001113 – Advertisement for Bids | |
| **14.** | **Delivery of Final Documents** | **250 days** from 7 |

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 003110

SECTION 003143 – PERMIT APPLICATION

1.1 PERMIT APPLICATION INFORMATION

A. Permit Application: The building permit for Project **will be** applied for by the **Architect on behalf of the Owner following the bid.**

~~B. **The Bidder is to include an allowance of $15,000.00 U.S. Dollars in their bid for permitting. Should the permit fee be waived, the allowance is to be credited back to the Owner.**~~

END OF DOCUMENT 003143

# SECTION 004321 - ALLOWANCE FORM

## 1.1 BID INFORMATION

A. Bidder: _____.

B. Project Name: **COLLINS P. LEE MEMORIAL LIBRARY**

C. Project Location: **237 Harrisburg RD. SW, Milledgeville, GA 31061**

D. Owner: **Middle Georgia Regional Library System**

E. Architect (Architect of Record): Cas Architecture, P.C.

1. Architect Representative: Chad Alexander Smith, AIA, RID, LEED AP

F. Architect Project Number: # **25114**

## 1.2 BID FORM SUPPLEMENT

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

B. The undersigned Bidder certifies that Base Bid submission to which this Bid Supplement is attached includes those allowances described in the Contract Documents and scheduled in Section 012100 "Allowances."

## 1.3 ALLOWANCES

A. ~~**Permitting Fee: Refer to Specification SECTION 003143 – PERMIT APPLICATION for permit allowance and**~~ **Refer to Specification SECTION 012123 – CONTINGENCY ALLOWANCE for Contingency allowance.**

## 1.4 SUBMISSION OF BID SUPPLEMENT

A. Respectfully submitted this ____ day of _____, **2026**.

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 004321

SECTION 029100 – SYNTHETIC TURF

PART 1 – GENERAL

**1.1 DESCRIPTION OF WORK**

1. Provide all labor, materials, equipment, and tools necessary for the complete installation of synthetic grass playground surfacing. Surface shall meet the requirements of ASTM F1292-13, that states that the surface must yield both a peak deceleration of no more than 200 g's and a Head Injury Criteria (HIC) value of no more than 1,000 for a headfirst fall from the accessible height of the play equipment within the fall zone areas. System must be IPEMA certified and supported by test data that is less than 3 years executed. Test data alone is not considered to be preferred supportive documentation. The system shall consist of, but not necessarily be limited to, the following:
    a. Synthetic grass consisting of fibers that are 1.25" long. Turf fiber construction consisting of 100% nylon monofilament and texturized nylon thatch tufted to a 2-layer stabilized woven polypropylene fabric (primary backing), with a secondary backing (stitch binder) of punched urethane or approved equal.
    b. Pad underlayment system consisting of porous closed cell composite materials. Thickness and density of panels shall be sufficient so that system meets the requirements of ASTM F1292-13. (SofPad™)
    c. Synthetic Grass Infill, consisting of anti-microbial acrylic coated round silica particles, designed to provide the look, feel, and performance of optimally maintained natural grass to be installed in the fall zones. (EnviroFill®)
    d. 3/4" clean aggregate, ½" screenings, compacted 4" deep
    e. Synthetic grass shall be CPSIA compliant with valid supporting test documents.
    f. Synthetic grass shall be manufactured exclusively in the USA, finished goods manufactured outside of the USA will be accepted.

**1.2 SUBMITTALS**

1. Product Data: Submit manufacturer's product data, including installation instructions and subsurface instructions.
2. Samples: Submit samples of synthetic grass, infill, pad underlayment.
3. Warranty: Submit manufacturer's standard 10-year warranty.

**PART 2 – PRODUCTS**

**2.1 SYNTHETIC GRASS SAFETY SURFACE**

1. Aggregate Base – 1/2" Screenings, 3/4" Clean Aggregate, Compacted 4" deep (Refer to Section 3.2-3).
2. Synthetic grass: XGrass® Fringe Turf from XGrass, 205 Boring Dr. Dalton, GA 30721, Phone (877) 881-8477
    a. Face Weight: 54 oz/sy

b. Pile Height: 1.25"
c. Face Yarn Type: Nylon
d. Denier: 4200
e. Color: Field Green/Clover
f. Construction: Broadloom tufted
g. Stitch Rate: 8 per 3 inches
h. Tufting Gauge: 3/8"
i. Primary Backing: 8.0 oz/sy
j. Secondary Backing: 20 oz/sy Urethane
k. Total Product Weight: 82 oz/sy
l. Finished Roll Width: 180" untrimmed
m. Warranty: 10 Year UV
n. Manufactured in the USA, Internationally manufactured products will not be accepted

**3. Acceptable alternate products:**

**a. Artificial Turf: ForeverLawn Playground Grass Quest.**

**b. Pour-in-Place Surfacing: ForeverLawn Playground Quest Colored Turf.**

4. Pad Underlayment System: SofPad™ (to be utilized in fall zone areas specifically) 100% recycled, non-contaminated, Post industrial cross-link, closed cell Polyethylene – polyolefin foam pad from XGrass.
   a. Foam Type: Polyethylene – Polyolefin
   b. Bulk Density: 5.0-8.0 lb/cu ft
   c. Effective Size: 24 sq ft (net coverage)
   d. Tensile Strength: 34-36 psi

5. Synthetic Grass Infill: EnviroFill® from XGrass, 205 Boring Drive. Dalton, GA 30721, Phone (877) 881-8477. Coating: Priority acrylic with Microban®, iron oxide and chromium oxide.
   a. Grain shape: Round
   b. Hardness: 6-8 Mohs
   c. Curvature: 0.7+
   d. Specific Gravity: 1.76 g/cm3
   e. Bulk Density: 110 lb/cu ft
   f. Uniform Coefficient: 1.10 to 1.40
   g. Effective Size: .84 - 1.68 mm

6. Splicing Material: Red Stripe
7. Adhesive: Turf Claw 75 UP

## PART 3 – EXECUTION

### 3.1 GROUND PREPARATION

1. General: The ground area to receive synthetic grass safety surface is indicated on the Drawings.
2. Leveling and Site Preparation: All organic material and organic debris to be removed.

Soil to be graded level and stabilized (compacted) 6 " below grade, per site requirements. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers.

**3.2 BASE AND SYNTHETIC GRASS CONSTRUCTION**

1. General: The area to be smooth and graded to allow for proper drainage. Refer to engineered grading plan if available. The overall grade of the playground is not to exceed 3%.

2. Nailer Board: Installation of pressure treated or composite board per site requirements.
    a. Concrete edges: Nailer board attached directly to vertical concrete edge with Tapcon hardware positioned 3/4" below concrete grade.
    b. Non-concrete edges: Nailer board installed with round, steel stake, 3 per 10' board. Top of nailer boards to be situated 3/4" below grade.
3. Compacted Aggregate Base: Place 4" of 3/4" clean aggregate base and 1/2" of screening as leveling layer compacted to 90% of max density per AASHTO T99. Compaction shall be done with mechanical compactors, including vibratory compactors, and/or powered tampers, and rollers.
4. Underlayment Pad: Lay underlayment pad with seam staggered, trimming edge to fit flush against the nailer board. Sofplay pad to be installed in areas requiring fall height attenuation specific to the fall height requirements and correlating to the IPEMA certification.
5. Synthetic Grass: Place turf and cut to fit configuration as shown on Drawings. Splice seams. All seams must be attached with splicing film/fabric and adhesive as approved by the manufacturer for this type of installation of their product.
6. Anchoring/Edging: Edges of turf will be secured to nailer board perimeter.
7. Infill: Apply layers of synthetic grass infill evenly with a drop spreader and broom the turf fibers with stiff bristle broom to stand fibers up and allow infill to settle into the bottom. Broom in infill at the rate of 3 pounds per square foot.

**PART 4 – WARRANTY**

**4.1 WARRANTY**

1. Please refer to the current XGrass warranty for details.

END OF SECTION 029100

# SECTION 042613 – MASONRY VENEER

## 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.

B. Refer to **Specification 042000 – UNIT MASONRY**

### 1.2 SUMMARY

A. Section Includes:
1. Clay face brick.
2. Mortar.
3. Ties and anchors.
4. Embedded flashing.
5. Miscellaneous masonry accessories.

B. Products Installed but not Furnished under This Section:

1. Steel lintels in masonry veneer.
2. Steel shelf angles for supporting masonry veneer.

C. Related Requirements:

1. Section 076200 "Sheet Metal Flashing and Trim" for sheet metal flashing and for furnishing manufactured reglets installed in masonry joints.

### 1.4 DEFINITIONS

A. CMU(s): Concrete masonry unit(s).

### 1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at **Project site**.

### 1.6 ACTION SUBMITTALS

A. Product Data: For each type of product.

C. Shop Drawings: For the following:

1. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.

D. Samples for Initial Selection:

1. Clay face brick, in the form of straps of five or more bricks.
2. Colored mortar.
3. Weep holes/vents.

E. Samples for Verification: For each type and color of the following:

1. Clay face brick, in the form of straps of five or more bricks.
2. Colored-aggregate mortar. Make Samples using same sand and mortar ingredients to be used on Project.
3. Weep holes and vents.
4. Accessories embedded in masonry.

1.7 INFORMATIONAL SUBMITTALS

A. List of Materials Used in Constructing Mockups: List generic product names together with manufacturers, manufacturers' product names, model numbers, lot numbers, batch numbers, source of supply, and other information as required to identify materials used. Include mix proportions for mortar and grout and source of aggregates.

1. Submittal is for information only. Receipt of list does not constitute approval of deviations from the Contract Documents unless such deviations are specifically brought to the attention of Architect and approved in writing.

B. Material Certificates: For each type and size of the following:

1. Masonry units.
   a. Include data on material properties material test reports substantiating compliance with requirements.
   b. For brick, include size-variation data verifying that actual range of sizes falls within specified tolerances.
   c. For exposed brick, include test report for efflorescence according to ASTM C 67.
2. Mortar admixtures.
3. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
4. Anchors, ties, and metal accessories.

C. Mix Designs: For each type of mortar. Include description of type and proportions of ingredients.

1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91/C 91M for air content.

D. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.8 QUALITY ASSURANCE

A. Sample Panels: Build sample panels to verify selections made under Sample submittals and to demonstrate aesthetic effects. Comply with requirements in Section 014000 "Quality Requirements" for mockups.

1. Build sample panels for typical exterior wall in sizes approximately 48 inches (1200 mm) long by 48 inches (1200 mm) high by full thickness.
2. Build sample panels facing south.
3. Where masonry is to match existing, build panels adjacent and parallel to existing surface.
4. Clean one-half of exposed faces of panels with masonry cleaner indicated.
5. Protect approved sample panels from the elements with weather-resistant membrane.
6. Approval of sample panels is for color, texture, and blending of masonry units; relationship of mortar and sealant colors to masonry unit colors; tooling of joints; aesthetic qualities of workmanship; and other material and construction qualities specifically approved by Architect in writing.

    a. Approval of sample panels does not constitute approval of deviations from the Contract Documents contained in sample panels unless such deviations are specifically approved by Architect in writing.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.

1. Build mockup of typical wall area as shown on **Drawing A520**.

2. Build mockups for typical exterior wall in sizes approximately 48 inches (1200 mm) long by 48 inches (1200 mm) high by full thickness, including face and backup wythes and accessories.
    a. Include a sealant-filled joint at least 16 inches (400 mm) long in mockup.
    b. Include lower corner of window opening at upper corner of exterior wall mockup. Make opening approximately 12 inches (300 mm) wide by 16 inches (400 mm) high.
    c. Include through-wall flashing installed for a 24-inch (600-mm) length in corner of exterior wall mockup approximately 16 inches (400 mm) down from top of mockup, with a 18-inch (450-mm) length of flashing left exposed to view (omit masonry above half of flashing).
    d. Include metal studs, sheathing, water-resistive barrier sheathing joint-and-penetration treatment air barrier, veneer anchors, flashing, cavity drainage material, and weep holes in exterior masonry-veneer wall mockup.

4. Clean one-half of exposed faces of mockups with masonry cleaner as indicated.
5. Protect accepted mockups from the elements with weather-resistant membrane.
6. Approval of mockups is for color, texture, and blending of masonry units; relationship of mortar and sealant colors to masonry unit colors; tooling of joints; and aesthetic qualities of workmanship.

    a. Approval of mockups is also for other material and construction qualities specifically approved by Architect in writing.

b. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

D. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.

E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.10 FIELD CONDITIONS

A. Protection of Masonry: During construction, cover tops of veneer, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.

1. Extend cover a minimum of 24 inches (600 mm) down face of veneer, and hold cover securely in place.

B. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry. Immediately remove grout, mortar, and soil that come in contact with masonry.

1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
2. Protect sills, ledges, and projections from mortar droppings.
3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.

C. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.

D. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from single source from single manufacturer for each product required.

B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from single manufacturer for each cementitious component and from single source or producer for each aggregate.

2.2 BRICK

B. General: Provide shapes indicated and as follows, with exposed surfaces matching finish and color of exposed faces of adjacent units:

1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.

2. Provide special shapes for applications where stretcher units cannot accommodate special conditions, including those at corners, movement joints, bond beams, sashes, and lintels.
3. Provide special shapes for applications requiring brick of size, form, color, and texture on exposed surfaces that cannot be produced by sawing.
4. Provide special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.

C. Clay Face Brick: Facing brick complying with ASTM C 216, type FBS, Grade SW and as follows:

**1. Unit Compressive Strength: Specify units with minimum average net-area compressive strength of 3000 psi.**
**2. 24-Hour Cold Water Absorption: Does not exceed 8.0%.**
**3. Efflorescence: Provide brick that has been tested according to ASTM C 67 and is rated "not effloresced."**
4. Manufacturers: Subject to compliance with requirements, provide products by one of the following available manufacturers, or Architect approved equal prior to Bid, offering products that may be incorporated into the Work include, but are not limited to, the following:
   **a. Product Representative**
   **North Georgia Brick**
   **Jamie Hustey**
   **404-989-1489**
   **jhustey@ngabrick.com**
   **b. Product**

**As indicated on Architectural Drawing A520**
**Exterior Keynote Schedule**

5. Size (Actual Dimensions): **To match existing brick in size and texture.**

2.6 MORTAR MATERIALS

B. **Provide the following:**
1. **Masonry Cement meeting ASTM C 91**
   a. **For pigmented mortars, only allow premixed, colored masonry cements of formulation required to produce color desired. Pigments shall not exceed 5 percent of masonry cement by weight for mineral oxides nor 1 percent for carbon black.**
2. **Hydrated Lime: ASTM C 207, Type S.**
3. **Portland Cement-Lime Mix: Packaged blend of Portland cement complying with ASTM C 150, Type I or Type III, and hydrated lime complying with ASTM C 207, Type S.**
4. **Aggregate for Mortar: ASTM C 144; except for joints less than 1/4 inch (6.5 mm), use aggregate graded with 100 percent passing the No. 16 (1.18 mm) sieve.**
5. **Aggregate for Grout: ASTM C 404.**
6. **Ready-Mixed Mortar: Cementitious materials, water, and aggregate complying with requirements specified in this Article; combined with set-controlling admixtures to produce a ready-mixed mortar complying with ASTM C 1142.**
7. **Water: Potable.**
8. **Products: Colored Masonry Cement:**
   a. **At locations of specified face brick, use Type N mortar, color to be Argos Canyon Brown**

2.7 TIES AND ANCHORS

A. **Adjustable Masonry-Veneer Anchors:**
1. **General: Provide two-piece assemblies that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.**
2. **Screw-Attached, Masonry-Veneer Anchors at metal stud framing:**
   a. **Basis of Design is HB-213-HS by Hohmann & Barnard, Inc.**
   b. **Wire tie section shall extend at least halfway through veneer but with at least 5/8-inch cover on outside face.**
   c. **Wire (carbon steel): Prefabricated from cold-drawn steel wire conforming to ASTM A82/A82M**
   d. **Tensile Strength: 80,000 p.s.i., Yield Point: 70,000 p.s.i. minimum**
   e. **Hot-dip Galvanized after fabrication: ASTM A153/A153M-B (1.5 oz/ft2)**
   f. **Space 16" on center horizontal and 16" on center vertical.**
   g. **Refer to Section 072100. Provide wall ties that aide in securing rigid insulation.**

3. **Screw-Attached, Masonry-Veneer Anchors at concrete:**
   a. **Basis of Design is HB-200 by Hohmann & Barnard, Inc.**
   b. **Wire tie section shall extend at least halfway through veneer but with at least 5/8-inch cover on outside face.**

**c. Wire (carbon steel): Prefabricated from cold-drawn steel wire conforming to ASTM A82/A82M**
**d. Tensile Strength: 80,000 p.s.i., Yield Point: 70,000 p.s.i. minimum**
**e. Hot-dip Galvanized after fabrication: ASTM A153/A153M-B (1.5 oz/ft2)**
**f. Space 16" on center horizontal and 16" on center vertical.**

**4. Masonry-Veneer Anchors at CMU:**
**a. Basis of Design is Lox-All Truss Reinforcement #170 Truss Eye-Wire by Hohmann & Barnard, Inc.**
**b. Wire tie section shall extend at least halfway through veneer but with at least 5/8-inch cover on outside face.**
**c. Conforms to ASTM A951/A951M-06, ACI/ASCE 530 and ASTM A82/A82M**
**d. Tensile Strength: 80,000 p.s.i., Yield Point: 70,000 p.s.i. minimum e. Hot-dip Galvanized after fabrication: ASTM A153/A153M-B2 (1.5 oz/ft2)**
**e. Space 16" on center horizontal and 16" on center vertical.**

**4. Acceptable Alternate Masonry-Veneer Anchors:**
**a. Thermal-Grip Masonry Veneer Anchor by TruFast.**

2.8 EMBEDDED FLASHING MATERIALS

A. Flexible Flashing:

1. Use the following unless otherwise indicated:

a. Basis-of-Design Product: Subject to compliance with requirements, provide Mortar Net Solutions; TotalFlash unitized flashing and cavity drainage system or comparable product by one of the following:

1) Advanced Building Products Inc.
2) Architect approved prior to Bid

b. Accessories: Provide preformed corners, end dams, and materials produced by flashing manufacturer.

1) Basis-of-Design Product: Mortar Net Solutions; CompleteFlash.

c. Sealants:

1) Basis-of-Design Product: Mortar Net Solutions; BTL-1, Butyl.

2. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 0.040 inch (1.02 mm).

a. Basis-of-Design Product: Subject to compliance with requirements, provide Mortar Net Solutions; TotalFlash unitized flashing and cavity drainage system or comparable product by one of the following:

1) Advanced Building Products Inc.

2) Carlisle Coatings & Waterproofing Inc.
3) Fiberweb, Clark Hammerbeam Corp.
4) Grace Construction Products; W.R. Grace & Co. -- Conn.
5) Heckmann Building Products, Inc.
6) Polyguard Products, Inc.
7) W. R. Meadows, Inc.
8) Williams Products, Inc.

b. Accessories: Provide preformed corners and end dams produced by flashing manufacturer.

1) Basis-of-Design Product: Mortar Net Solutions; CompleteFlash.

c. Sealants:

1) Basis-of-Design Product: Mortar Net Solutions; MPE-1, Modified Polyether BTL-1, Butyl.

3. Elastomeric Thermoplastic Flashing: Composite flashing product consisting of a UV stable thermoplastic vinyl of an overall thickness of not less than 0.040 inch (1.02 mm).

a. Basis-of-Design Product: Subject to compliance with requirements, provide Mortar Net Solutions; TotalFlash unitized flashing and cavity drainage system or comparable product by one of the following:

1) Advanced Building Products Inc.
2) Hyload, Inc.
3) Or Architect approved prior to Bid

b. Self-Adhesive Sheet: Flexible 40 mil (1 mm) self-adhering sheet membrane, consisting of a self-adhered rubberized asphalt, a removable treated release film, and a high density 8 mil (0.2 mm) polymer film as the top surface.

c. Self-Adhesive Sheet with Drip Edge: Flexible 40 mil (1 mm) self-adhering sheet membrane, consisting of a self-adhered rubberized asphalt with drip edge. Where flashing extends to face of masonry, rubberized-asphalt coating is held back approximately 3/4 inches (19 mm) from edge.

d. Accessories: Provide preformed corners and end dams produced by flashing manufacturer.

1) Basis-of-Design Product: Mortar Net Solutions; CompleteFlash.

e. Sealants:

1) Basis-of-Design Product: Mortar Net Solutions; MPE-1, Modified Polyether BTL-1, Butyl.

4. EPDM Flashing: Sheet flashing product made from ethylene-propylene-diene terpolymer, complying with ASTM D 4637/D 4637M, 0.045 inch (1.14 mm) thick.

    a. Basis-of-Design Product: Subject to compliance with requirements, provide Mortar Net Solutions; TotalFlash unitized flashing and cavity drainage system or comparable product by one of the following:

        1) Carlisle Coatings & Waterproofing Inc.
        2) Firestone Specialty Products.
        3) Heckmann Building Products, Inc.
        4) Architect approved prior to Bid

    b. Accessories: Provide preformed corners and end dams produced by flashing manufacturer.

        1) Basis-of-Design Product: Mortar Net Solutions; CompleteFlash.

    c. Sealants:

        1) Basis-of-Design Product: Mortar Net Solutions; MPE-1, Modified Polyether] BTL-1, Butyl.

B. Application: Unless otherwise indicated, use the following:

1. Where flashing is indicated to receive counterflashing, use metal flashing.
2. Where flashing is indicated to be turned down at or beyond the wall face, use metal flashing.
3. Where flashing is partly exposed and is indicated to terminate at the wall face, use a flexible flashing with a metal drip edge or elastomeric thermoplastic flashing with a drip edge.

C. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

D. Termination Bars for Flexible Flashing: [Aluminum] [Stainless steel] steel bars [0.075 inch by 1 inch (1.9 mm by 25 mm)] [1/8 inch by 1 inch (3 mm by 25 mm)].

E. Termination Bars for Flexible Flashing: Stainless steel sheet 0.019 inch by 1-1/2 inches (0.48 mm by 38 mm) with a 3/8 inch (9.5 mm) sealant flange at top.

F. Termination Bars for Flexible Flashing: Aluminum sheet 0.064 inch by 1-1/2 inches (01.6 mm by 38 mm) with a 3/8 inch (9.5 mm) sealant flange at top.

## 2.9 MISCELLANEOUS MASONRY ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene urethane or PVC.

B. Weep/Vent Products: Use:

1. Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch (3 mm) less than depth of outer wythe, in color selected from manufacturer's standard.

    a. Basis-of-Design Product: Subject to compliance, provide Mortar Net Solutions; CellVent or Architect approved prior to Bid:

    **Cell Vents: Ultra Violet Resistant Polypropylene cell vent tested in conformance with ASTM D2240, D790B, D638 and D1238B.**
    - **i. Basis of Design is Quadro-Vent by Hohmann & Barnard, Inc.**
    - **ii. #3601 Cell Vent by Wire-bond.**
    - **iii. Mortar Net Weeps not allowed.**
    - **iv. Plastic tube weeps not allowed.**
    - **v. Cotton weeps not allowed.**
    - **vi. Color to be selected from standard color samples to match mortar.**
    - **vii. Space vents 24" on center horizontally placed in brick masonry joint. Vent to occur full height of joint. Cut vent as required to match brick height.**

C. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.

1. **Basis-of-Design Product: Subject to compliance with requirements, provide Mortar Net Solutions; MortarNet with the following:**

    **a. Provide trapezoidal shaped Mortar Net with insect barrier to suspend mortar droppings at unequal heights allowing moisture to drain from the cavity and maintain airflow within the cavity wall.**

    **b. Shall have 90% open-weave mesh construction, shall not oxidize, rot,**

2.10 MASONRY CLEANERS

A. Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

1. **To satisfy the following:**
    **a. Brick cleaning in accordance with BIA Technotes #20.**
    **b. Cleaning solutions to be approved by the manufacturer to not damage the surface of the units.**
    **c. Pressure washing is not allowed due to the potential damage to units and mortar joints.**
    **d. The use of muriatic or hydrochloric acid is not allowed.**

2.11 MORTAR MIXES

A. **General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.**

1. **Do not use calcium chloride in mortar or grout.**

B. **Mortar for Unit Masonry: Comply is to comply with BIA M1, for types of mortar indicated below:**

**1. For masonry below grade, in contact with earth, use Type S mortar.**
**2. For reinforced masonry, use Type S mortar.**
**3. For exterior, above-grade, load-bearing and non-load bearing walls; for interior load-bearing walls; for interior non-load bearing partitions, and for other applications, use Type N mortar.**
**4. Pigmented Mortar: Select and proportion pigments with other ingredients to produce color required.**
**5. Grout for Unit Masonry: Comply with ASTM C 476.**
**a. Use coarse grout in grout spaces 2 inches or more in least horizontal dimension.**
**6. Mortar joints shall be concave, unless otherwise directed by the County.**

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

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

3.2 INSTALLATION, GENERAL

A. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match the construction immediately adjacent to opening.

B. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

C. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures. Mix units from several pallets or cubes as they are placed.

D. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.

E. Wetting of Brick: Wet brick before laying if initial rate of absorption exceeds 30 g/30 sq. in. (30 g/194 sq. cm) per minute when tested according to ASTM C 67. Allow units to absorb water so they are damp but not wet at time of laying.

3.3 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch (12 mm) or minus 1/4 inch (6 mm).
2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch (12 mm).
3. For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch (6 mm) in a story height or 1/2 inch (12 mm) total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2 inch (12 mm) maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
3. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2 inch (12 mm) maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2 inch (12 mm) maximum.
6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2 inch (12 mm) maximum.

7. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch (1.5 mm) except due to warpage of masonry units within tolerances specified for warpage of units.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm), with a maximum thickness limited to 1/2 inch (12 mm).
2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch (3 mm).
3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch (9 mm) or minus 1/4 inch (6 mm).
4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm).Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8 inch (3 mm).
5. For exposed bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch (1.5 mm) from one masonry unit to the next.

3.4 LAYING MASONRY WALLS

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in **running bond** ; do not use units with less-than-nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.

C. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.

D. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

3.5 MORTAR BEDDING AND JOINTING

A. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

B. Lay hollow brick and CMUs with face shells fully bedded in mortar and with head joints of depth equal to bed joints. At starting course, fully bed entire units, including area under cells.

1. At anchors and ties, fully bed units and fill cells with mortar as needed to fully embed anchors and ties in mortar.

D. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.

1. For glazed masonry units, use a nonmetallic jointer 3/4 inch (19 mm) or more in width.

3.6 ANCHORED MASONRY VENEERS

A. Anchor masonry veneers to wall framing and concrete and masonry backup with seismic masonry-veneer anchors to comply with the following requirements:

1. Fasten screw-attached and seismic anchors through sheathing to wall framing and to concrete and masonry backup with metal fasteners of type indicated. Use two fasteners unless anchor design only uses one fastener.
2. Embed tie sections connector sections and continuous wire in masonry joints.
3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.

4. Space anchors as indicated, but not more than 18 inches (458 mm) o.c. vertically and 24 inches (610 mm) o.c. horizontally, with not less than one anchor for each 2

sq. ft. (0.2 sq. m) of wall area. Install additional anchors within 12 inches (305 mm) of openings and at intervals, not exceeding 8 inches (203 mm), around perimeter.

B. Provide not less than 2 inches (50 mm) of airspace between back of masonry veneer and face of sheathing insulation.

1. Keep airspace clean of mortar droppings and other materials during construction. Bevel beds away from airspace, to minimize mortar protrusions into airspace. Do not attempt to trowel or remove mortar fins protruding into airspace.

## 3.7 ANCHORING MASONRY TO STRUCTURAL STEEL AND CONCRETE

A. Anchor masonry to structural steel and concrete, where masonry abuts or faces structural steel or concrete to comply with the following:

1. Provide an open space not less than 2 inches (50 mm) wide between masonry and structural steel or concrete unless otherwise indicated. Keep open space free of mortar and other rigid materials.
2. Anchor masonry with anchors embedded in masonry joints and attached to structure.
3. Space anchors as indicated, but not more than 24 inches (610 mm) o.c. vertically and 36 inches (915 mm) o.c. horizontally.

## 3.8 EXPANSION JOINTS

A. General: Install expansion-joint materials in unit masonry as masonry progresses. Do not allow materials to span expansion joints without provision to allow for in-plane wall or partition movement.

B. Form expansion joints as follows:

1. Build in compressible joint fillers where indicated.
2. Form open joint full depth of brick wythe and of width indicated, but not less than 1/2 inch (13 mm) for installation of sealant and backer rod specified in Section 079200 "Joint Sealants."

C. Provide horizontal, pressure-relieving joints by either leaving an airspace or inserting a compressible filler of width required for installing sealant and backer rod specified in Section 079200 "Joint Sealants," but not less than 3/8 inch (10 mm).

1. Locate horizontal, pressure-relieving joints beneath shelf angles supporting masonry.

## 3.9 LINTELS

A. Install **galvanized steel lintels** above all exterior exposed openings. **Paint all lintel surfaces prior to installation with special paint that adheres to galvanized steel on all surfaces.**

B. Provide minimum bearing of 8 inches (200 mm) at each jamb unless otherwise indicated.

3.10 FLASHING, WEEP HOLES, AND VENTS

A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated. Install vents at shelf angles, ledges, and other obstructions to upward flow of air in cavities, and where indicated.

B. Install flashing as follows unless otherwise indicated:

1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.
2. Extend flashing through veneer, across airspace behind veneer, and up face of sheathing at least 8 inches (200 mm); with upper edge tucked under water-resistive barrier air barrier, lapping at least 4 inches (100 mm). Fasten upper edge of flexible flashing to sheathing through termination bar.
3. At lintels and shelf angles, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. At heads and sills, extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to form end dams.

5. Cut flexible flashing off flush with face of wall after masonry wall construction is completed.

C. Install reglets and nailers for flashing and other related construction where they are shown to be built into masonry.

D. Install weep holes in veneers in head joints of first course of masonry immediately above embedded flashing.

1. Use specified weep/vent products to form weep holes.
2. Use wicking material to form weep holes above flashing under brick sills. Turn wicking down at lip of sill to be as inconspicuous as possible.
3. Space weep holes 24 inches (600 mm) o.c. unless otherwise indicated.

E. Place cavity drainage material in airspace behind veneers to comply with configuration requirements for cavity drainage material in "Miscellaneous Masonry Accessories" Article.

3.11 FIELD QUALITY CONTROL

A. Testing and Inspecting: Owner will engage special inspectors to perform tests and inspections and prepare reports. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements shall be done at Contractor's expense.

B. Inspections: Special inspections according to Level B in TMS 402/ACI 530/ASCE 5.

1. Begin masonry construction only after inspectors have verified proportions of site-prepared mortar.

C. Testing Prior to Construction: One set of tests.

D. Clay Masonry Unit Test: For each type of unit provided, according to ASTM C 67 for compressive strength.

E. Concrete Masonry Unit Test: For each type of unit provided, according to ASTM C 140 for compressive strength.

F. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, according to ASTM C 780.

G. Mortar Test (Property Specification): For each mix provided, according to ASTM C 780. Test mortar for mortar air content and compressive strength.

## 3.12 REPAIRING, POINTING, AND CLEANING

A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.

C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.

D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:

1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
3. Protect adjacent stone and non masonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
5. Clean brick by bucket-and-brush hand-cleaning method described in BIA Technical Notes 20.
6. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.
7. Clean stone trim to comply with stone supplier's written instructions.
8. Clean limestone units to comply with recommendations in ILI's "Indiana Limestone Handbook."

3.13 MASONRY WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.

1. Crush masonry waste to less than 4 inches (100 mm) in each dimension.
2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 312000 "Earth Moving."

3. Do not dispose of masonry waste as fill within 18 inches (450 mm) of finished grade.

C. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION 042113

# SECTION 096723 - RESINOUS FLOORING

## 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. This Section includes two resinous flooring systems, one with epoxy body and one with urethane-urea resin.

1. Application Method: Troweled screed, and sanded. Rubberized Terrazzo.

### 1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include manufacturer's technical data, application instructions, and recommendations for each resinous flooring component required.

B. Samples for Verification: For each resinous flooring system required, 5 inches (150 mm) square, applied to a rigid backing by Installer for this Project.

C. Product Schedule: Use resinous flooring designations indicated in Part 2 and room designations indicated on Drawings in product schedule.

D. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.

E. Maintenance Data: For resinous flooring to include in maintenance manuals.

### 1.4 QUALITY ASSURANCE

A. No request for substitution shall be considered that would change the generic type of floor system specified (i.e. urethane based rubberized terrazzo). Equivalent materials of other manufactures may be substituted only on approval of Architect or Engineer. Request for substitution will only be considered only if submitted 10 days prior to bid date. Request will be subject to specification requirements described in this section.

B. Installer Qualifications: Engage an experienced installer (applicator) who is experienced in applying resinous flooring systems similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance, and who is acceptable to resinous flooring manufacturer.

1. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.

2. Contractor shall have completed at least 10 projects of similar size and complexity.

C. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, through one source from a single manufacturer, with not less than ten years of successful experience in manufacturing and installing principal materials described in this section. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.

D. Manufacturer Field Technical Service Representatives: Resinous flooring manufacture shall retain the services of Field Technical Service Representatives who are trained specifically on installing the system to be used on the project.

1. Field Technical Services Representatives shall be employed by the system manufacture to assist in the quality assurance and quality control process of the installation and shall be available to perform field problem solving issues with the installer.

E. Mockups: Apply mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Apply full-thickness mockups on 48-inch- (1200-mm-) square floor area selected by Architect.

a. Include 48-inch (1200-mm) length of integral cove base.

2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

F. Pre-installation Conference:

1. General contractor shall arrange a meeting not less than thirty days prior to starting work.

2. Attendance:

a. General Contractor

b. Architect/Owner's Representative.
c. Manufacturer/Installer's Representative.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.

B. Store materials to prevent deterioration from moisture, heat, cold, direct sunlight, or other detrimental effects. Store material per Product Data sheet.

C. All materials used shall be factory pre-weighed and pre-packaged in single, easy to manage batches to eliminate on site mixing errors. No on site weighing or volumetric measurements allowed.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.

1. Maintain material and substrate temperature between 65 and 85 deg F (18 and 30 deg C) during resinous flooring application and for not less than 24 hours after application.

B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.

C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application, unless manufacturer recommends a longer period.

D. Concrete substrate shall be properly cured. A vapor barrier must be present for concrete subfloors on or below grade. Otherwise, an osmotic pressure resistant grout must be installed prior to the resinous flooring.

1.7 WARRANTY

A. Manufacturer shall furnish a single, written warranty covering both material and workmanship for a period of one (1) one full years from date of installation, or provide a joint and several warranty signed on a single document by material manufacturer and applicator jointly and severally warranting the materials and workmanship for a period of (1) one full year from date of installation. A sample warranty letter must be included with bid package or bid may be disqualified.

PART 2 - PRODUCTS

2.1 RESINOUS FLOORING

A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, the following:

B. Products: Provide the following:

1. Stonhard, Inc.; Stonres RTZ®.

2. Sherwin-Williams Company, General Polymers. Ceramic Carpet #400.

3. Sika Corporation; Sikafloor 265 Flexible Epoxy Membrane, Sikafloor Quartzite System, Sikafloor 510 topcoat.

4. Durex Coverings, Inc.; Mosaix Floor #190 with DX-470 Chemical Resistant Polyaspartic Top Coat.
5. Life Sciences Products Inc. SeamTek Type 4 Epoxy Quartz Flooring.
6. Sherwin Williams Hybri-Flex EQ
7. **Koster Resinous Flooring**

C. System Characteristics:

1. Color and Pattern: As indicated by Architect in finish legend drawings.
2. Wearing Surface: Smooth Rubberized.
3. Integral Cove Base: TBD
4. Overall System Thickness: 3/16 inch.

D. System Components: Manufacturer's standard components that are compatible with each other and as follows:

1. Primer Coat:

   a. Material Basis: Stonhard Standard Primer.
   b. Resin: (2) two component epoxy.
   c. Formulation Description: 100 percent solids.
   d. Application Method: squeegee back roll.
   e. Number of Coats: One.

2. Primer Coat 2:

   a. Material Basis: Stonhard SL Primer.
   b. Resin: (3) three component epoxy.
   c. Formulation Description: 100 percent solids.
   d. Application Method: squeegee back roll onto wet standard primer.
   e. Number of Coats: One.

3. Formulation Description: Body Coat:

   a. Material Basis: Stonres Mortar base.
   b. Resin: Urethane
   c. Formulation Description: Comprised of a (3) three component mortar, consisting of pigmented urethane resin, curing agent, and rubber aggregates,
   d. Application Method: Screed Rake

      1) Free-Flowing Mortar: Uniformly spread mortar over substrate using manufacturer's specially designed screed rake adjusted to manufacturer's recommended height. Spike roll the mortar to remove any rake lines, using manufacturer's specially designed spike roller.
      2) Sanding: Sand surface of the cured mortar according to manufacturer's recommended equipment and procedures.

4. Grout coat:

   a. Material Basis: Stonres grout coat.

b. Resin: Urethane
c. Formulation Description: (2) two-component, 100% aliphatic, polyaspartic urethane.
d. Type: Clear
e. Finish: Matte.
f. Number of Coats: One.

5. Topcoat: Chemical resistant and high UV stability.

a. Material Basis: Stonseal GS7 clear flat.
b. Resin: Aliphatic polyurethane.
c. Formulation Description: (2) two-component, waterborne, flat, aliphatic polyurethane topcoat.
d. Type: Clear
e. Finish: Matte.
f. Number of Coats: one.

Note: Components listed above are the basis of design intent; all bids will be compared to this standard including resin chemistry, color, wearing surface, thickness, and installation procedures, including number of coats. Contractor shall be required to comply with all the requirements of the Specifications and all of the components required by the Specifications, whether or not such products are specifically listed above.

E. System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested according to test methods indicated:

1. Static load Limit: 0.004in/0.1mm.
2. Resistance to Heat: Delta E>8 per ASTM F-970.
3. Hardness: 85 Min. per ASTM D-2240/Shore A Durometer.
4. Residual Indentation: 1% thickness per ASTM F- 1914.
5. Noise Reduction Coefficient: 0.05 per ASTM C-423.
6. Abrasion Resistance: 0.01gm per ASTM D-3389, H-18 500g, 1000 cycles.
7. Fire Resistance: Class 1, Per ASTM E-648.
8. Percent Elongation: 150% per ASTM D-638.
9. Thermal Coefficient of Linear Expansion: 3.3 x 10^-5 in./in. . F per ASTM C-531

2.2 ACCESSORY MATERIALS

A. Pitching and Leveling: Use a (3) three component fast setting trowel able epoxy grout. Resinous epoxy based grout designed for permanent repairs under flooring system. Stonhard, Stonset TG 5. See drawings for fill locations. Use standard drain details, saw cut and chase.

B. Joint Sealant: Type recommended or produced by resinous flooring manufacturer for type of service and joint condition indicated.

PART 3 - EXECUTION

3.1 PREPARATION

A. General: Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry, and neutral Ph substrate for resinous flooring application.

B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.

1. Mechanically prepare substrates as follows:

a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup or Diamond Grind with dust free system.

2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written recommendations.

3. Verify that concrete substrates are dry.

a. Perform in situ probe test, ASTM F 2170. Proceed with application only after substrates do not exceed a maximum potential equilibrium relative humidity of 80 percent.
b. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application only after substrates have maximum moisture-vapor-emission rate of 6 lb of water/1000 sq. ft. of slab in 24 hours.
c. Perform additional moisture tests recommended by manufacturer. Proceed with application only after substrates pass testing.

C. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.

D. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written recommendations. Allowances for Stonproof CT5.

3.2 APPLICATION

A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.

1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.

3. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations.

    a. Apply joint sealant to comply with manufacturer's written recommendations.

B. Apply SL Primer over prepared substrate at manufacturer's recommended spreading rate wet on wet application.

C. Integral Cove Base: High performance, mortar consisting of epoxy resin, curing agent and selected, graded aggregates blended with inorganic pigments, high solids epoxy mortar system. Top coat with Stonseal GS7, pigmented urethane top coat

D. Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and details including those for taping, mixing, priming, and troweling, sanding, and top coating of cove base. Round internal and external corners.

E. Free-Flowing Mortar: Mix mortar material according to manufacturer's recommended procedures. Uniformly spread mortar over substrate using manufacturer's specially designed screed rake adjusted to manufacturer's recommended height. Spike roll the mortar to remove any rake lines, using manufacturer's specially designed spike roller.

F. Sanding: Sand surface of the cured mortar according to manufacturer's recommended equipment and procedures. Thoroughly clean and vacuum the surface of the base once all sanding has been completed.

G. Grout coat: Mix and apply sealer with strict adherence to manufacturer's installation procedures and coverage rates.

H. Topcoat: Mix and roller apply the topcoat with strict adherence to manufacturer's installation procedures and coverage rates.

## 3.3 TERMINATIONS

A. Chase edges to "lock" the coating system into the concrete substrate along lines of termination.

B. Penetration Treatment: Lap and seal coating onto the perimeter of the penetrating item by bridging over compatible elastomer at the interface to compensate for possible movement.

C. Trenches: Continue coating system into trenches to maintain monolithic protection. Treat cold joints to assure bridging of potential cracks.

D. Treat floor drains by chasing the coating to lock in place at point of termination.

## 3.4 JOINTS AND CRACKS

A. Treat control joints and to maintain monolithic protection.

B. Treat cold joints and construction joints to bridge potential cracks and to maintain monolithic protection on horizontal and vertical surfaces as well as horizontal and vertical interfaces.

C. Discontinue floor coating system at vertical and horizontal contraction and expansion joints by installing backer rod and compatible sealant after coating installation is completed. Provide sealant type recommended by manufacturer for traffic conditions and chemical exposures to be encountered.

3.5 FIELD QUALITY CONTROL

A. Material Sampling: Owner may at any time and any numbers of times during resinous flooring application require material samples for testing for compliance with requirements.

1. Owner will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in presence of Contractor.
2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
3. If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials, and reapply flooring materials to comply with requirements.

3.6 CLEANING, PROTECTING, AND CURING

A. Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process. Close area of application for a minimum of 24 hours.

B. Protect resinous flooring materials from damage and wear during construction operation. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and method of application. General Contractor is responsible for protection and cleaning of surfaces after final coats.

C. Cleaning: Remove temporary covering and clean resinous flooring just prior to final inspection. Use cleaning materials and procedures recommended by resinous flooring manufacturer. General contractor is responsible for cleaning prior to inspection.

END OF SECTION 096723

## PROJECT DIRECTORY AND CONTACTS

**OWNER**

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NOTE: COMMUNICATIONS BY AND WITH THE ARCHITECT'S CONSULTANTS SHALL BE THROUGH THE ARCHITECT. COMMUNICATIONS BY AND WITH THE SUBCONTRACTORS AND MATERIAL SUPPLIERS SHALL BE THROUGH THE CONTRACTOR.

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## PROJECT DATA AND INFORMATION

**PROJECT DESCRIPTION:** PROJECT CONSISTS OF THE RENOVATION OF 3,586 SF OF THE EXISTING COLLINS P. COMMUNITY CENTER TO CREATE THE NEW COLLINS P. LEE MEMORIAL LIBRARY. SCOPE INCLUDES INTERIOR RECONFIGURATION, BUILDING SYSTEM UPGRADES AND SITE IMPROVEMENTS.

**PROJECT OWNER/DEVELOPER:** MIDDLE GEORGIA REGIONAL LIBRARY SYSTEM

**PROJECT NAME:** COLLINS P. LEE MEMORIAL LIBRARY

**PROJECT LOCATION:** 237 HARRISBURG ROAD SW, MILLEDGEVILLE, GA 31061

**USE AND OCCUPANCY CLASSIFICATION (IBC 2024 - SECTION 303):** ASSEMBLY A-3

**TYPE OF CONSTRUCTION (IBC 2024 - TABLE 601):** TYPE VB

**NUMBER OF FLOORS IN BUILDING:** (1) ONE FLOOR

**BUILDING AREA:** 3,586 SF

**SPRINKLERED:** NO

**FIRE ALARM:** NO

**CALCULATED OCCUPANCY LOAD (IBC 2024 - TABLE 1004.5 AND NFPA 2018 - TABLE 7.3.1.2):** REFER TO OCCUPANCY CALCULATIONS AND CHART

## APPLICABLE CODES AND ORDINANCES

CODE REFERENCES AND SECTIONS HAVE BEEN LISTED FOR CONVENIENCE. TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE CODE REFERENCES AND SECTIONS LISTED ARE CURRENT. HOWEVER, THE CONTRACTOR AND HIS SUB CONTRACTORS ARE RESPONSIBLE FOR ADHERING TO THE LATEST APPROVED CODE PER THE APPLICABLE GOVERNING JURISDICTION REGARDLESS OF THE LISTED CODE REFERENCES AND SECTIONS.

**THE FOLLOWING CODES SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT:**

THE GEORGIA STATE MINIMUM STANDARD CODES:
INTERNATIONAL BUILDING CODE: 2024 EDITION WITH GEORGIA AMENDMENTS
INTERNATIONAL PLUMBING CODE: 2024 EDITION WITH GEORGIA AMENDMENTS
INTERNATIONAL MECHANICAL CODE: 2024 EDITION WITH GEORGIA AMENDMENTS
INTERNATIONAL FUEL GAS CODE: 2024 EDITION WITH GEORGIA AMENDMENTS
INTERNATIONAL ENERGY CONSERVATION CODE: 2015 EDITION WITH GEORGIA STATE SUPPLEMENTS & AMENDMENTS
INTERNATIONAL FIRE CODE: 2024 EDITION
NFPA 70 NATIONAL ELECTRICAL CODE: 2023 EDITION WITH GEORGIA AMENDMENTS
NFPA 101 LIFE SAFETY CODE: 2024 EDITION WITH 2020 GEORGIA AMENDMENTS
NFPA 72 NATIONAL FIRE ALARM CODE: 2013 EDITION WITH 2014 GEORGIA STATE AMENDMENTS
ADA STANDARDS 2010 EDITION

## BUILDING AREA MODIFICATION (IBC 2024)

**ALLOWABLE HEIGHT, PER TABLE 504.3**
- FOR OCCUPANCY TYPE 'A-3' = 40 FT

**ACTUAL BUILDING HEIGHT**
14 - 0" TO HIGH POINT FROM FINISH FLOOR ELEVATION

**ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE PER TABLE 504.4**
- FOR OCCUPANCY TYPE 'A-3' = 1 STORIES

**NUMBER OF STORIES PROVIDED**
1 STORY

**ALLOWABLE FLOOR AREA, PER TABLE 506.2**
- FOR OCCUPANCY TYPE 'A-3' = 6,000 SF

**TOTAL SQUARE FOOTAGE PROVIDED**
3,586 SF

## AREA LOCATOR


## STREET LOCATOR


## PLUMBING COUNT (IPC 2024)

MINIMUM NUMBER OF PLUMBING FACILITIES (2024 INTERNATIONAL PLUMBING CODE - TABLE 403.1):

BUILDING CLASSIFICATION/OCCUPANCY: ASSEMBLY - A3
78 OCCUPANTS
- 39 MALE
- 39 FEMALE

WATER CLOSETS:
MALE: 1 PER 125 - 1 REQUIRED - 1 PROVIDED
FEMALE: 1 PER 65 - 1 REQUIRED - 1 PROVIDED

LAVATORIES:
MALE: 1 PER 200 - 1 REQUIRED - 1 PROVIDED
FEMALE: 1 PER 200 - 1 REQUIRED - 1 PROVIDED

BATHTUBS/SHOWERS: NOT REQUIRED

DRINKING FOUNTAIN: 1 PER 500
- 1 REQUIRED - 1 PROVIDED

OTHER: 1 SERVICE SINK
- 1 REQUIRED - 1 PROVIDED

## ENERGY CODE INFORMATION

**R-VALUES:**
2015 INTERNATIONAL ENERGY CONSERVATION CODE TABLE C402.1.3 - THERMAL ENVELOPE MINIMUM REQUIREMENTS ***(CLIMATE ZONE #3A)***

CI = CONTINUOUS INSULATION

| CODE REQUIREMENT | CONDITION | BUILDING ELEMENT |
|---|---|---|
| R-13 + R-7.5 CI | INSULATION @ METAL STUD FRAMED WALL | EXTERIOR WALLS |
| R-7.6 CI | INSULATION @ MASS WALL | EXTERIOR WALLS |
| N/R | NOT REQUIRED AT UNHEATED SLABS | SLAB ON GRADE FLOOR |

## OCCUPANCY CALCULATIONS AND CHART

| NAME | NUMBER | AREA | OCCUPANCY | AREA PER OCCUPANT | OCCUPANCY LOAD CALCULATED |
|---|---|---|---|---|---|
| ADULTS / READING AREA | 100 | 1459 SF | LIBRARY - READING | 50 SF | 30 |
| HELP DESK | 101 | 104 SF | BUSINESS | 150 SF | 1 |
| STUDY | 102 | 56 SF | CLASSROOM | 20 SF | 3 |
| STUDY | 103 | 56 SF | CLASSROOM | 20 SF | 3 |
| JAN. | 104 | 34 SF | INCIDENTAL USE | 0 SF | |
| ELEC. | 105 | 30 SF | INCIDENTAL USE | 0 SF | |
| STORAGE | 106 | 105 SF | INCIDENTAL USE | 0 SF | |
| WORKROOM | 107 | 190 SF | BUSINESS | 150 SF | 2 |
| BREAKROOM | 108 | 105 SF | BUSINESS | 150 SF | 1 |
| REST. | 109 | 56 SF | INCIDENTAL USE | 0 SF | |
| REST. | 110 | 56 SF | INCIDENTAL USE | 0 SF | |
| CORRIDOR | 111 | 39 SF | INCIDENTAL USE | 0 SF | |
| CHILDREN | 112 | 586 SF | LIBRARY - READING | 50 SF | 12 |
| PROGRAM / MEETING ROOM | 113 | 377 SF | ASSEMBLY - LESS CONCENTRATED (TABLES AND CHAIRS) | 15 SF | 26 |
| Grand total | | | | | 78 |

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| E100 | ELECTRICAL RISER AND SCHEDULES | 2026/03/20 | |
| E120 | FLOOR PLAN - ELECTRICAL DEMOLITION | 2026/03/20 | |
| E220 | FLOOR PLAN - ELECTRICAL | 2026/03/20 | |
| E221 | FLOOR PLAN - ELECTRICAL (MECH) | 2026/03/20 | |
| E320 | FLOOR PLAN - LIGHTING | 2026/03/20 | |
| LV100 | TECHNOLOGY - LEGENDS AND NOTES | 2026/03/20 | |
| LV101 | TECHNOLOGY NOTES & ABBREVIATIONS | 2026/03/20 | |
| LV120 | DEMOLITION PLAN - LOW VOLTAGE | 2026/03/20 | |
| LV220 | FIRST FLOOR PLAN - LOW VOLTAGE | 2026/03/20 | |
| LV610 | SECURITY - DETAILS | 2026/03/20 | |
| LV620 | TELECOM - STRUCTURED CABLE - DETAILS | 2026/03/20 | |
| LV630 | TELECOM - WIFI - DETAILS | 2026/03/20 | |
| LV640 | GROUNDING - DETAILS | 2026/03/20 | |
| LV650 | FUNCTIONAL DIAGRAM - LOW VOLTAGE | 2026/03/20 | |


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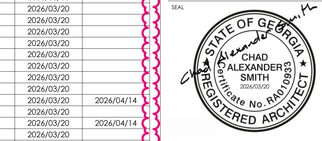


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| NO. | DATE | ISSUANCE / REVISIONS |
|---|---|---|
| | 2026/03/20 | ISSUED FOR PERMIT AND BID |
| 1 | 2026/04/14 | ADDENDUM 1 |
| 3 | 2026/04/24 | ADDENDUM 3 |

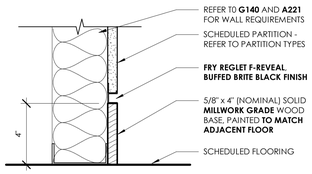
SHEET TITLE
PROJECT INFORMATION

SHEET NUMBER
G110

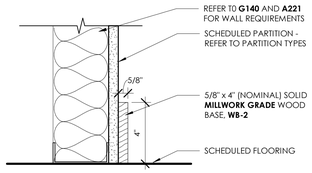
| PROJECT | DATE | DRAWN |
|---|---|---|
| 25114 | 2026/03/20 | CAS |

FILE
25114_LEE MEMORIAL LIBRARY RVT24

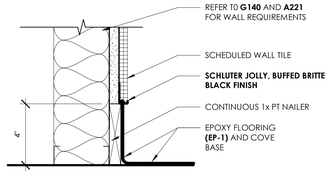
## TYPICAL BASE DETAILS



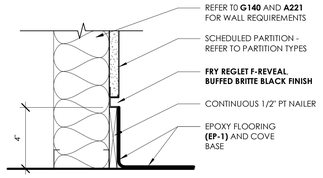

WB1 / I110 **WOOD BASE (WB-1) DETAIL**
3" = 1'-0"




WB2 / I110 **WOOD BASE (WB-2) DETAIL**
3" = 1'-0"

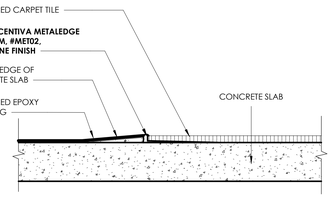



EB1 / I110 **EPOXY FLOOR TO WALL TILE DETAIL (EB-1) RESTROOMS**
3" = 1'-0"



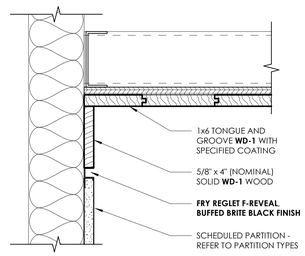

EB2 / I110 **EPOXY FLOOR TO GYP. BOARD DETAIL (EB-2) PROGRAM**
3" = 1'-0"

## TYPICAL FLOOR TRANSITION DETAILS



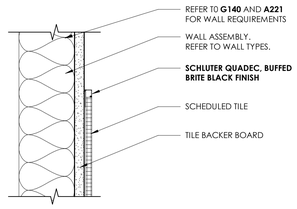

EC / I110 **TYPICAL EPOXY TO CARPET (EPY/CPT)**
6" = 1'-0"

## TYPICAL CEILING TRANSITION DETAILS



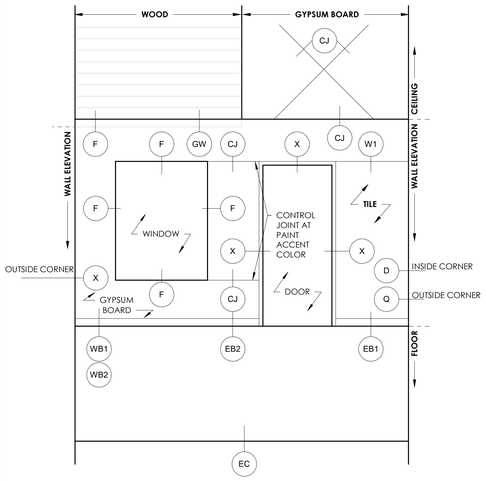

GW / I110 **TRANSITION - WALL TO WOOD CEILING DETAIL**
3" = 1'-0"

## TYPICAL WALL MATERIAL TRANSITION DETAILS

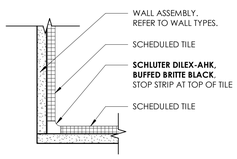



W1 / I110 **TRANSITION - WALL TILE TO WALL DRYWALL DETAIL**
3" = 1'-0"

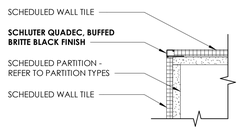
## TYPICAL CONTROL JOINT CONDITIONS



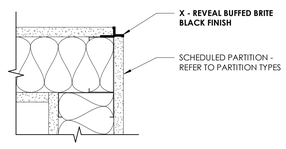

## TYPICAL CORNER TURNING DETAILS




D / I110 **INSIDE CORNER TILE PLAN DETAIL RESTROOMS**
3" = 1'-0"




Q / I110 **OUTSIDE CORNER TILE PLAN DETAIL RESTROOMS**
3" = 1'-0"




X / I110 **OUTSIDE CORNER GUARD PLAN DETAIL GYPSUM BOARD**
3" = 1'-0"

## FINISH LEGEND

| TAG | SPECIFICATION | | NOTES |
|---|---|---|---|
| 3 FORM | | | |
| 3F-0 | | | KODA XT 1/2", 12.7MM. - XT HELIUM N48 - VELLUM FINISH F04. |
| 3F-3 | | | KODA XT 1/2", 12.7MM. - XT CALYPSO B23 - VELLUM FINISH F04. |
| 3F-7 | | | KODA XT 1/2", 12.7MM. - XT FLAMINGO V19 - VELLUM FINISH F04. |
| 3F-8 | | | KODA XT 1/2", 12.7MM. - XT LILAC V09 - VELLUM FINISH F04. |
| ACOUSTICAL CEILING TILE | | | |
| ACT-1 | 095113 | | 2' x 2' WHITE, ACOUSTICAL CEILING TILE WITH WHITE GRID PER SPECIFICATION |
| CARPET | | | |
| CPT-3 | 096813 | | DALTON BY J+J FLOORING KINETIX - POP (STYLE 1816) MODULAR, COLOR - 1719 AZUL |
| CPT-7 | 096813 | | DALTON BY J+J FLOORING KINETIX - POP (STYLE 1816) MODULAR, COLOR - 1711 ANARANJADO |
| CPT-8 | 096813 | | DALTON BY J+J FLOORING KINETIX - POP (STYLE 1816) MODULAR, COLOR - 1713 VIOLETA |
| CPT-9 | 096813 | | DALTON BY J+J FLOORING KINETIX - POP (STYLE 1816) MODULAR, COLOR - 1715 VERDE |
| CPT-20 | 096813 | | DALTON BY J+J FLOORING KINETIX STIPPLE (STYLE 1838) MODULAR, COLOR - 2684 DAPPLED |
| CPT-21 | 096813 | | DALTON BY J+J FLOORING KINETIX STIPPLE (STYLE 1838) MODULAR, COLOR - 2685 DOTTED 3 |
| CONTROL JOINT | | | |
| CJ | 092900 | | FRY REGLET, DRYWALL REVEAL MOLDING - CLEAR ANODIZED FOR DRYWALL CEILING GRID. WIDTH OF REVEAL TO MATCH THICKNESS OF GYPSUM BOARD. REFER TO OTHER DETAILS THIS PAGE FOR OTHER CONTROL JOINTS. BLACK CONTROL JOINTS ARE USED AT BASE AND WALL CORNERS. |
| F | 092900 | | FRY REGLET F-REVEAL, BUFFED BRITE BLACK FINISH |
| EPOXY | | | |
| EB-1 | | | STONHARD, STONRES RTZ - SMOKE 'N MIRRORS (EPOXY BASE) |
| EB-2 | | | STONHARD, STONRES RTZ - SMOKE 'N MIRRORS (EPOXY BASE) |
| EP-1 | | | STONHARD, STONRES RTZ - SMOKE 'N MIRRORS (EPOXY FLOORS) |
| GLASS PRINTED COLORS | | | |
| G-3 | | | PRINTED COLORS TO MATCH PAINT COLOR P-3. REFER TO A920. |
| G-7 | | | PRINTED COLORS TO MATCH PAINT COLOR P-7. REFER TO A920. |
| G-8 | | | PRINTED COLORS TO MATCH PAINT COLOR P-8. REFER TO A920. |
| G-9 | | | PRINTED COLORS TO MATCH PAINT COLOR P-9. REFER TO A920. |
| G-10 | | | PRINTED COLORS TO MATCH PAINT COLOR P-10. REFER TO A920. |
| GYPSUM BOARD CEILING | | | |
| GWB-1 | | | GYPSUM BOARD CEILING, PAINTED, SHERWIN WILLIAMS, COLOR: SEE RCP FOR COLORS, FLAT FINISH |
| PAINT | | | |
| P-1 | 099123 | | SHERWIN WILLIAMS, CAS BLUE - CUSTOM FORMULA ON SHEET |
| P-2 | 099123 | | SHERWIN WILLIAMS, COLOR TO MATCH 32021 OUTREMER MOYEN, FORMULA ON SHEET. |
| P-3 | 099123 | | SHERWIN WILLIAMS, SW 6537 LUXE BLUE |
| P-4 | 099123 | | SHERWIN WILLIAMS, SW 6253 OLYMPUS WHITE |
| P-5 | 099113 | | SHERWIN WILLIAMS, SW 7062 ROCK BOTTOM |
| P-6 | | | NOT USED |
| P-7 | 099123 | | SHERWIN WILLIAMS, SW 6326 HENNA SHADE |
| P-8 | 099123 | | SHERWIN WILLIAMS, SW 6559 CONCORD GRAPE |
| P-9 | 099123 | | SHERWIN WILLIAMS, SW 6431 LEAPFROG |
| P-10 | 099123 | | SHERWIN WILLIAMS, SW 6687 LANTERN LIGHT |
| P-20 | 099123 | | SHERWIN WILLIAMS, SW 6253 OLYMPUS WHITE (EGGSHELL FINISH) |
| P-21 | 099123 | | SHERWIN WILLIAMS, SW 6254 LAZY GRAY (FLAT FINISH) |
| P-30 | 099123 | | SHERWIN WILLIAMS, SW 0077 CLASSIC FRENCH GRAY |
| SEALED CONCRETE | | | |
| SC-1 | | | SEALED CONCRETE, GRIND EXISTING CONCRETE SURFACE PRIOR TO SEALING. |
| SEALER | | | |
| ST-1 | | | SEALER FOR WOOD |
| ST-2 | | | SEALER FOR STEEL |
| SOLID SURFACE | | | |
| SS-1 | 066510 | | FOR SINKS, USE SOLID SURFACE, CORIAN GLACIER WHITE 8252 AND 5610, FOR COUNTERTOPS, SIDES, TOPS, ETC. USE SOLID SURFACE CORIAN SILVER LINEAR, RUN STRIPES AS SHOWN ON DRAWINGS |
| TILE | | | |
| T-1 | 093030 | | TRINITYSURFACES.COM - SUMMIT - DARK GRAY - MATTE - 12" X 24", GROUT COLOR TO MATCH TILE. SUBMIT COLOR OPTIONS TO BE SELECTED BY ARCHITECT. USE EPOXY GROUT IN ALL RESTROOMS. |
| T-2 | 093030 | | TRINITYSURFACES.COM - SUMMIT - GRAY - MATTE - 12" X 24", GROUT COLOR TO MATCH TILE. SUBMIT COLOR OPTIONS TO BE SELECTED BY ARCHITECT. USE EPOXY GROUT IN ALL RESTROOMS. |
| T-3 | 093030 | | DALTILE - COLOR WHEEL CLASSIC, 1174 SEA BREEZE. SQUARE, 4x4, GLOSSY, USE GRT-3. |
| TILE GROUT | | | |
| GRT-1 | 093030 | | MAPEI 5019 PEARL GRAY |
| GRT-2 | 093030 | | MAPEI 5104 TIMBERWOLF |
| GRT-3 | 093030 | | MAPEI 5101 RAIN |
| VINYL FABRIC | | | |
| V-1 | | | KNOLL TEXTILES BRIGADOON, 1988 - 466914 005 POOLSIDE |
| V-2 | | | KNOLL TEXTILES VAST KT COLLECTION - K2432/9 HORIZON |
| V-3 | | | KNOLL TEXTILES COLOR FIELD - 466712 008 BLUEPRINT |
| V-8 | | | KNOLL TEXTILES PRAIRIE - 466762 - 012 TRAIL |
| WINDOW TREATMENT | | | |
| WS-1 | 124920 | | ECO VEIL SHEER SCREENS, 6850 SERIES (1% OPEN), 6858 TITANIUM WITH DARK BRONZE ANODIZED HOUSING. DIVIDE BLINDS AT CENTERLINE OF WINDOW MULLIONS. |
| WOOD | | | |
| WD-1 | 062000 | | MILLWORK GRADE WHITE OAK, STAIN: NONE, FINISH: FLAT WATER POLY. REFER TO SPECIFICATIONS. |
| WD-2 | 062000 | | MILLWORK GRADE IPE FINISH WITH TWO COATS MESSMER'S U.V. PLUS NATURAL FOR WOOD DECKS SEALER. REFER TO SPECIFICATIONS. |

## SHEET SPECIFIC NOTES

1. PROVIDE SATIN FINISH ON ALL DOOR FRAMES AND WOOD THROUGHOUT.
2. PROVIDE SATIN PAINTED FINISH ON GYPSUM BOARD WALLS THROUGHOUT, UNLESS NOTED OTHERWISE.
3. PAINT HOLLOW METAL DOORS AND FRAMES TO MATCH ADJACENT WALLS, UNLESS NOTED OTHERWISE.
4. INTERIOR DOORS, DOOR FRAMES TO BE PAINTED SAME COLOR AS WALL.
5. REFER TO FINISH PLANS AND FINISH ELEVATIONS FOR ACCENT FINISH LOCATIONS AND FLOORING PATTERNS.
6. ALL GYPSUM BOARD CEILINGS TO BE PAINTED **P-4** UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CLARIFICATION OF CEILING FINISHES AND I110 FOR FINISH COLOR.
7. REFER TO **I110** FOR FLOOR MATERIAL TRANSITION REQUIREMENTS.
8. PROVIDE A CONTROL JOINT AT ALL PAINT TRANSITIONS.
9. PAINT ALL WALL BASE COLOR OF ADJACENT CARPET.

## CUSTOM COLORS

**PAINT P-1 (4320N BLEU CERULEEN)**

| P-1 | MFR.: | SHERWIN WILLIAMS |
|---|---|---|
| | COLOR: | CUSTOM MATCH SEE FORMULA BELOW |
| | FINISH: | EGGSHELL |

PROMAR 200, ZERO VOC, DEEP, B20W2653

| CCE*COLORANT | OZ | 32 | 64 | 128 |
|---|---|---|---|---|
| W1-WHITE | 6 | 57 | - | - |
| L1-BLUE | 2 | 14 | 1 | - |
| R3-MAGENTA | - | 34 | - | 1 |
| Y1-YELLOW | - | 3 | - | 1 |

**PAINT P-2 (32021 OUTREMER MOYEN)**

| P-2 | MFR.: | SHERWIN WILLIAMS |
|---|---|---|
| | COLOR: | CUSTOM MATCH SEE FORMULA BELOW |
| | FINISH: | EGGSHELL |

PROMAR 200, ZERO VOC, EXTRA WHITE, B20W12651

| CCE*COLORANT | OZ | 32 | 64 | 128 |
|---|---|---|---|---|
| L1-BLUE | - | 41 | - | - |
| N1-RAW UMBER | - | 11 | - | - |
| R3-MAGENTA | - | 26 | 1 | 1 |

**PAINT P-3 (32020 BLEU OUTREMER 31)**

| P-3 | MFR.: | SHERWIN WILLIAMS |
|---|---|---|
| | COLOR: | CUSTOM MATCH SEE FORMULA BELOW |
| | FINISH: | EGGSHELL |

PROMAR 200, ZERO VOC, DEEP, B20W02653

| CCE*COLORANT | OZ | 32 | 64 | 128 |
|---|---|---|---|---|
| W1-WHITE | 2 | 9 | 1 | - |
| L1-BLUE | 4 | 46 | - | 1 |
| R3-MAGENTA | 4 | 8 | - | 1 |

**PAINT P-4 (32024 OUTREMER GRIS)**

| P-4 | MFR.: | SHERWIN WILLIAMS |
|---|---|---|
| | COLOR: | CUSTOM MATCH SEE FORMULA BELOW |
| | FINISH: | EGGSHELL |

PROMAR 200, ZERO VOC, EXTRA WHITE, B20W12651

| CCE*COLORANT | OZ | 32 | 64 | 128 |
|---|---|---|---|---|
| B1-BLACK | - | 1 | 1 | 1 |
| G2-NEW GREEN | - | 1 | - | 1 |
| Y3-DEEP GOLD | - | - | 1 | - |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| 3 | 2026/04/24 | ADDENDUM 3 |

SHEET TITLE
FINISH LEGEND, BASE AND TRANSITION DETAILS

SHEET NUMBER
I110

| PROJECT | DATE | DRAWN |
|---|---|---|
| 25114 | 2026/03/20 | CAS |

FILE
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