

**PROJECT IDENTIFICATION**

**Project**

Renovations to  
Midland County Administrative Services Building  
Architect's Project Number 20220400

**Architect**

Archiverde Design, LLC  
2720 Rodd Street  
Midland, MI 48640

**INSTRUCTIONS**

**Purpose**

This addendum forms a part of the Contract Documents and is issued to modify the Bidding Documents.

**Procedure**

Bidders shall verify that sub-bidders have included addendum items in their sub-bids.

The Bid shall include all items modified by this addendum.

Bidders shall acknowledge receipt of this addendum in the space provided on the bid form.

**DRAWINGS**

The following drawings are issued as a part of this addendum:  
N/A

**ADDENDUM ITEMS**

**Architectural**

**Item A1**

Refer to specification Section 000110 – Table of contents, not reissued with this Addendum:

A. Add specification section 072105 – Acoustical Insulation.

**Item A2**

Refer to specification Section 060153 – Miscellaneous Rough Carpentry, reissued with this Addendum:

B. Revise specification section to include information regarding fire retardant treated wood blocking.

C. Revised specification section to indicate locations for providing fire retardant treated wood blocking.

**Item A3**

Refer to specification Section 072105 – Acoustical Insulation, issued with this Addendum:  
A. Add specification section 072105 – Acoustical Insulation.

**Item A4**

Refer to specification Section 083313 – Coiling Counter Doors, not reissued with this Addendum:  
A. Revise Item 2.02 A.1 to the following: “Mounting: End mount to steel tube support post. Steel tube size and anchorage as recommended by door manufacturer.”

**Item A5**

Refer to specification Section 096500 – Resilient Flooring, reissued with this Addendum:  
A. Revised section to include information on rubber stair treads.  
B. Added information for base type RB-1.  
C. Added location information for base types.

**Item A6**

Refer to specification Section 102600 – Wall and Door Protection, not reissued with this Addendum:  
A. Clarification: In item 3.05 - Schedule of Colors, the location noted as “install on all walls to receive wall covering VWC-#” is intended to guide the bidder as to the location of that specific color. It is not meant to direct the bidder to provide crash rails and corner guards on all wall covering surfaces. Please provide corner guards and crash rails as indicated on the interior elevations and drawings A6.1, A6.2, and A6.3.

**Item A7**

Refer to drawings D2.1, D2.2, D2.3, A3.1, A3.2, and A3.3, not reissued with this Addendum:  
A. The perimeter gypsum board soffit, located at the exterior windows, is existing and shall remain.  
B. Patch and repair any gypsum board soffits to remain, neat and flush with existing adjacent surfaces. Paint.

**Item A8**

Refer to drawing A8.1, not reissued with this Addendum:  
A. Clarification: In elevation M1, the height to the top of the removable portion of the convector cover is approximately 3'-5". The bottom is approximately 6" from the floor. Actual dimensions shall be field verified by the fabricator.

**Item A9**

Refer to drawing A9.3, not reissued with this Addendum:  
A. The end wall caps shown in details A14 and K18 are to be .060 aluminum with a dark bronze anodized finish. Provide hemmed edges.

**Item A10**

Refer to drawing A9.4, not reissued with this Addendum:  
A. Detail A20 is for the ceiling of Audiology 255.

---END OF ADDENDUM---

**SECTION 061053  
MISCELLANEOUS ROUGH CARPENTRY**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Fire retardant treated wood materials.
- B. Communications and electrical room mounting boards.
- C. Concealed wood blocking, nailers, and supports.

**1.02 RELATED REQUIREMENTS**

- A. Section 092116 - Gypsum Board Assemblies: Gypsum-based sheathing.

**1.03 REFERENCE STANDARDS**

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023.
- C. AWPA U1 - Use Category System: User Specification for Treated Wood; 2023.
- D. PS 1 - Structural Plywood; 2019.
- E. PS 20 - American Softwood Lumber Standard; 2021.
- F. SPIB (GR) - Standard Grading Rules; 2021.
- G. WWPA G-5 - Western Lumber Grading Rules; 2021.

**PART 2 PRODUCTS**

**2.01 GENERAL REQUIREMENTS**

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
  - 1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
  - 2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee ([www.alsc.org](http://www.alsc.org)) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

**2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS**

- A. Grading Agency: Southern Pine Inspection Bureau, Inc; SPIB (GR).
- B. Grading Agency: Western Wood Products Association; WWPA G-5.
- C. Sizes: Nominal sizes as indicated on drawings, S4S.
- D. Moisture Content: S-dry or MC19.
- E. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
  - 1. Lumber: S4S, No.2 or Standard Grade.
  - 2. Boards: Standard or No.3.

**2.03 CONSTRUCTION PANELS**

- A. Communications and Electrical Room Mounting Boards: PS 1, A-D plywood, or medium density fiberboard; 3/4 inch (19 mm) thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

**2.04 ACCESSORIES**

- A. Fasteners and Anchors:
  - 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

## **2.05 FACTORY WOOD TREATMENT**

- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
  - 1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
- B. Fire Retardant Treatment:
  - 1. Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, low temperature, low hygroscopic type, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.
    - a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
    - b. Treat rough carpentry items as indicated.
    - c. Do not use treated wood in applications exposed to weather or where the wood may become wet.

## **PART 3 EXECUTION**

### **3.01 INSTALLATION - GENERAL**

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.
- C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

### **3.02 BLOCKING, NAILERS, AND SUPPORTS**

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to code authorities may be used in lieu of solid wood blocking.
- C. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
- D. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
- E. Provide the following specific nonstructural framing and blocking:
  - 1. Cabinets and shelf supports.
  - 2. Wall brackets.
  - 3. Grab bars.
  - 4. Towel and bath accessories.
  - 5. Wall-mounted door stops.
  - 6. Chalkboards and marker boards.
  - 7. Wall mounted audio visual equipment.
  - 8. Wall mounted coat racks, etc..

### **3.03 INSTALLATION OF CONSTRUCTION PANELS**

- A. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches (610 mm) on center on edges and into studs in field of board.

1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly.
2. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs.
3. Install adjacent boards without gaps.

#### **3.04 CLEANING**

- A. Waste Disposal: See Section 017419 - Construction Waste Management and Disposal.
  1. Comply with applicable regulations.
  2. Do not burn scrap on project site.
  3. Do not burn scraps that have been pressure treated.
  4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or "waste-to-energy" facilities.
- B. Do not leave wood, shavings, sawdust, etc. on the ground or buried in fill.
- C. Prevent sawdust and wood shavings from entering the storm drainage system.

**END OF SECTION**

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**SECTION 072105  
ACOUSTICAL BATT INSULATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

**1.02 RELATED REQUIREMENTS**

- A. Section 092116: Gypsum Board Assemblies

**1.03 REFERENCE STANDARDS**

- A. American Society for Testing and Materials (ASTM).
  - 1. C 665 Specification for Mineral Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
  - 2. E 84 Test Method for Surface Burning Characteristics of Building Materials
  - 3. E 136 Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C.
  - 4. C 518 Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter.
  - 5. C423 Test Method for Sound Absorption Coefficient by the Reverberation Room Method

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Submit Manufacturer's product literature, samples, installation instructions, and spec data sheets..

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. See Section 017419 - Construction Waste Management and Disposal for packaging waste requirements.
- B. Protect insulation from physical damage and from becoming wet,soiled, or covered with ice or snow. Comply with manufacturer's recommendations for handling, storage and protection during installation.
- C. Label insulation packages to include material name, production date and/or product code.
- D. Deliver and store materials under provision of Section 016000.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. CertainTeed Corporation: [www.certainteed.com](http://www.certainteed.com).
- B. Johns Manville: [www.jm.com/#](http://www.jm.com/#).
- C. Owens Corning Corporation: [www.ocbuildingspec.com/](http://www.ocbuildingspec.com/).
- D. ROCKWOOL: [www.rockwool.com](http://www.rockwool.com)
- E. Substitutions: See Section 016000 - Product Requirements.
- F. Source Limitations: Furnish products produced by single manufacturer and obtained from single supplier.

**2.02 MATERIALS**

- A. Fiberglass Sound Attenuation Batts
  - 1. Type: Unfaced glass fiber acoustical insulation complying with
  - 2. Size:
    - a. Width: 16" (406mm) min.
    - b. Thickness: 3 1/2"(89mm)
  - 3. Surface Burning Characteristics:
    - a. Maximum flame spread: 10
    - b. Maximum smoke developed: 10 When tested in accordance with ASTM E 84.

4. Combustion Characteristics:
    - a. Passes ASTM E 136.
  5. Fire Resistance Ratings:
    - a. Passes ASTM E 119 as part of a complete fire tested wall assembly.
  6. Sound Transmission Class: STC \_\_\_\_
  7. Dimensional Stability:
    - a. Linear Shrinkage less than 0.1%
- B. Mineral Wool Blanket Thermal Insulation: Flexible or semi-rigid preformed insulation, complying with ASTM C665.
1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
  2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
  3. Thickness: as required

### **2.03 ACCESSORIES**

- A. Insulation Fasteners: Lengths of unfinished, 13 gauge, 0.072 inch (1.83 mm) high carbon spring steel with chisel or mitered tips, held in place by tension, length to suit insulation thickness and substrate, capable of securely supporting insulation in place.
- B. Insulation Fasteners: Impaling clip of unfinished steel with washer retainer and clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION AND PREPARATION**

- A. Examine substrates and conditions under which insulation work is to be performed. A satisfactory substrate is one that complies with
- B. Verify mechanical and electrical services within the shaftwall have been tested and inspected.
- C. Obtain installer's written report listing conditions detrimental to performance of work in this section. Do not proceed with installation of insulation until unsatisfactory conditions have been corrected.
- D. Clean substrates of substances harmful to insulation.

### **3.02 INSTALLATION**

- A. Comply with manufacturer's instructions for particular conditions of installation in each case.
- B. production date and/or product code.
- C. Retain insulation batts in place with specified fasteners at 12 inches (305 mm) on center.. Install batts to fill entire stud cavity. If stud cavity is less than 96" in height, cut lengths to friction-fit against floor and ceiling tracks. Walls with penetrations require that insulation be carefully cut to fit around outlets, junction boxes and other irregularities.
- D. Where walls are not finished on both sides or insulation does not fill the cavity depth, supplementary support must be provided to hold product in place.
- E. Where insulation must extend higher than 8 feet, temporary support can be provided to hold product in place until the finish material is applied.

### **3.03 PROTECTION**

- A. Protect installed insulation from subsequent construction operations.

**END OF SECTION**



**SECTION 096500  
RESILIENT FLOORING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Static control resilient sheet flooring.
- B. Resilient tile flooring.
- C. Static control resilient tile flooring.
- D. Resilient base.
- E. Resilient stair accessories.
- F. Installation accessories.

**1.02 RELATED REQUIREMENTS**

- A. Section 090561 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

**1.03 REFERENCE STANDARDS**

- A. ASTM D6329 - Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers; 1998 (Reapproved 2023).
- B. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2019a, with Editorial Revision (2020).
- C. ASTM F150 - Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring; 2006 (Reapproved 2018).
- D. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2022.
- E. ASTM F1700 - Standard Specification for Solid Vinyl Floor Tile; 2020.
- F. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021.
- G. ASTM F2169 - Standard Specification for Resilient Stair Treads; 2015 (Reapproved 2020).
- H. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.
- I. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Shop Drawings: Indicate seaming plans and floor patterns.
- D. Accessories Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.
- E. Vinyl Tile Verification Samples: Submit two samples, 12 by 6 inch (\_\_\_ by \_\_\_ mm) in size illustrating color and pattern for each vinyl tile product specified.
- F. Rubber Base Verification Samples: Submit two samples, 2 by 4 inch (\_\_\_ by \_\_\_ mm) in size illustrating colors and profile for each rubber base product specified.
- G. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.
- H. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable.

- I. Installer's Qualification Statement.
- J. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.
- K. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 016000 - Product Requirements, for additional provisions.
  - 2. Extra Flooring Material: \_\_\_\_\_ square feet (\_\_\_\_\_ square meters) of each type and color.
  - 3. Extra Wall Base: \_\_\_\_\_ linear feet (\_\_\_\_\_ linear meters) of each type and color.

#### **1.05 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in installing specified flooring with minimum three years documented experience.
- B. Testing Agency Qualifications: Independent firm specializing in performing concrete slab moisture testing and inspections of the type specified in this section.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.
- B. Store all materials off of the floor in an acclimatized, weather-tight space.
- C. Maintain temperature in storage area between 55 degrees F (13 degrees C) and 90 degrees F (72 degrees C).
- D. Do not double stack pallets.

#### **1.07 FIELD CONDITIONS**

### **PART 2 PRODUCTS**

#### **2.01 TILE FLOORING**

- A. Vinyl Tile - Type LVT-1: Printed film type, with transparent or translucent wear layer; acoustic interlayer or backing.
  - 1. Basis of Design Product: "Natural Elements" as manufactured by Flexco Corporation.
    - a. Line: Premium Luxury Vinyl Plank
    - b. Color: 662 "Barn Oak"
    - c. Plank size: 48"x6"
  - 2. Other acceptable manufacturers with similar products:
    - a. Karndean Designflooring; Karndean Art Select: [www.karndean.com#sle](http://www.karndean.com#sle).
    - b. Mannington Commercial: [www.manningtoncommercial.com#sle](http://www.manningtoncommercial.com#sle).
  - 3. Minimum Requirements: Comply with ASTM F1700, Class III.
  - 4. Mold and Microbial Resistance: Highly resistant when tested in accordance with ASTM D6329.
  - 5. Wear Layer Thickness: 0.020 inch (0.50 mm).
  - 6. Total Thickness: 0.20 inch (5 mm).
  - 7. Tile Edge: Interlocking shape.
  - 8. Pattern: staggered joints with minimum 6" offset..
- B. Static Control Tile - Type SCT-1: Homogeneous; color and pattern throughout thickness.
  - 1. Manufacturers:
    - a. Armstrong Flooring; Excelon SDT: [www.armstrongflooring.com](http://www.armstrongflooring.com)
    - b. Flexco Corporation; Delane ESD Vinyl: [www.flexcofloors.com#sle](http://www.flexcofloors.com#sle).
    - c. Mannington Commercial; \_\_\_\_\_: [www.manningtoncommercial.com#sle](http://www.manningtoncommercial.com#sle).
    - d. Roppe Corporation; ESD Vinyl Static Control Tile: [www.roppe.com#sle](http://www.roppe.com#sle).
    - e. Tarkett North America; Delane ESD Vinyl Tile: [www.tarkett.com](http://www.tarkett.com)
  - 2. Minimum Requirements: Solid vinyl tile complying with ASTM F1700, Class 1, Type A.
  - 3. Electrical Resistance:

- a. Dissipative Tile: Resistance between 1.0 megohms and 1000 megohms as tested in accordance with ASTM F150.
- 4. Tile Size: 12 by 12 inch (305 by 305 mm).
- 5. Total Thickness: 0.125 inch (3 mm).
- 6. Color: To be selected by Architect from manufacturer's full range.

## 2.02 STAIR COVERING

- A. Stair Treads: Rubber; full width and depth of stair tread in one piece; tapered thickness.
  - 1. Manufacturers:
    - a. Johnsonite, a Tarkett Company; \_\_\_\_\_: [www.johnsonite.com/#sle](http://www.johnsonite.com/#sle).
    - b. Mannington Commercial; \_\_\_\_\_: [www.manningtoncommercial.com/#sle](http://www.manningtoncommercial.com/#sle).
    - c. Roppe Corporation; Rubber Stair Treads: [www.roppe.com/#sle](http://www.roppe.com/#sle).
    - d. Substitutions: See Section 016000 - Product Requirements.
  - 2. Minimum Requirements: Comply with ASTM F2169, Type TS, rubber, vulcanized thermoset.
  - 3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
  - 4. Nominal Thickness: 0.1875 inch (4.75 mm).
  - 5. Nosing: Square.
  - 6. Striping: 2 inch (24 mm) wide contrasting color abrasive strips.
  - 7. Pattern: diamond.
  - 8. Color: match RB-1.
- B. Stair Risers: Full height and width of tread in one piece, matching treads in material and color.
  - 1. Manufacturers:
    - a. Johnsonite, a Tarkett Company; \_\_\_\_\_: [www.johnsonite.com/#sle](http://www.johnsonite.com/#sle).
    - b. Mannington Commercial; \_\_\_\_\_: [www.manningtoncommercial.com/#sle](http://www.manningtoncommercial.com/#sle).
    - c. Roppe Corporation; \_\_\_\_\_: [www.roppe.com/#sle](http://www.roppe.com/#sle).
  - 2. Thickness: 0.080 inch (2.0 mm).

## 2.03 RESILIENT BASE

- A. Resilient Base: ASTM F1861, Type TS, rubber, vulcanized thermoset; style as scheduled.
  - 1. Manufacturers:
    - a. Flexco Corporation: [www.flexcofloors.com/#sle](http://www.flexcofloors.com/#sle).
    - b. Johnsonite, a Tarkett Company: [www.johnsonite.com/#sle](http://www.johnsonite.com/#sle).
    - c. Mannington Commercial: [www.manningtoncommercial.com/#sle](http://www.manningtoncommercial.com/#sle).
    - d. Roppe Corporation; Contours Profiled Wall Base System: [www.roppe.com/#sle](http://www.roppe.com/#sle).
    - e. Substitutions: See Section 016000 - Product Requirements.
  - 2. Height: 4 inches (100 mm).
  - 3. Profile:
    - a. Coved at hard or resilient tile flooring
    - b. Straight at carpet
  - 4. Thickness: 0.125 inch (3.2 mm).
  - 5. Finish: Satin.
  - 6. Length: Roll.
  - 7. Color: As scheduled.
  - 8. Accessories: Premolded external corners and internal corners.

## 2.04 ACCESSORIES

- A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.
- C. Adhesive for Vinyl Flooring:
  - 1. As recommended by flooring manufacturer.

- D. Moldings, Transition and Edge Strips: Rubber or vinyl.
  - 1. Manufacturers:
    - a. Mannington Commercial: [www.manningtoncommercial.com#sle](http://www.manningtoncommercial.com#sle).
    - b. Johnsonite, a Tarkett Company: [www.johnsonite.com/#sle](http://www.johnsonite.com/#sle).
    - c. Substitutions: See Section 016000 - Product Requirements.
  - 2. Colors: as selected from manufacturer's complete range.
- E. Copper Grounding Strips: Type and size as recommended by static control flooring manufacturer.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- B. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
  - 1. Test in accordance with Section 090561.
  - 2. Test as Follows:
    - a. Alkalinity (pH): ASTM F710.
    - b. Internal Relative Humidity: ASTM F2170.
  - 3. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
- C. Verify that required floor-mounted utilities are in correct location.

### **3.02 PREPARATION**

- A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
- B. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.
- C. Prohibit traffic until filler is fully cured.

### **3.03 INSTALLATION - GENERAL**

- A. Starting installation constitutes acceptance of subfloor conditions.
- B. Install in accordance with manufacturer's written instructions.
- C. Adhesive-Applied Installation:
  - 1. Spread only enough adhesive to permit installation of materials before initial set.
  - 2. Fit joints and butt seams tightly.
  - 3. Set flooring in place, press with heavy roller to attain full adhesion.

### **3.04 INSTALLATION - TILE FLOORING**

- A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.
- B. Lay flooring with joints and seams parallel to building lines to produce symmetrical pattern.
- C. Install plank tile with a random offset of at least 6 inches (152 mm) from adjacent rows.

### **3.05 INSTALLATION - RESILIENT BASE**

- A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints.
- B. Install base on solid backing. Bond tightly to wall and floor surfaces.

### **3.06 INSTALLATION - STAIR COVERINGS**

- A. Adhere over entire surface. Fit accurately and securely.

### **3.07 CLEANING**

- A. Remove excess adhesive from floor, base, and wall surfaces without damage.
- B. Clean in accordance with manufacturer's written instructions.

**3.08 PROTECTION**

- A. Prohibit traffic on resilient flooring for 48 hours after installation.

**3.09 SCHEDULE**

- A. RB--1: Roppe 178 "Pewter"
  - 1. Location: on all walls not to receive RB-2 or RB-3.
- B. RB-2: Roppe 663 "Aged Fern"
  - 1. Location: on all walls to receive PT-2 or VWC-2
- C. RB-3: Roppe 188 "Brick"
  - 1. Location: on all walls to receive PT-3 or VWC-3.
- D. RB-4: Roppe 178 "Pewter"

**END OF SECTION**

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