



CITY OF MADISON

# MONONA TERRACE

COMMUNITY & CONVENTION CENTER

## Carpet Replacement Project

**PROJECT SPECIFICATIONS**

05-07-13

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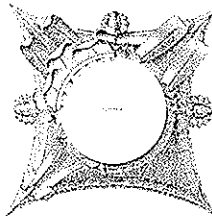


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SECTION 02 41 13

SELECTIVE DEMOLITION

PART 1 - GENERAL

SCOPE

The work under this section shall consist of providing all work, materials, labor, equipment, and supervision necessary to provide for the selective removal of building items to be discarded and/or salvaged and such features as required in these specifications and on the drawings.

QUALITY ASSURANCE

Company Qualifications for Selective Removal:

Only companies experienced with removing materials from governmental buildings shall be considered qualified to perform work under this Section. The company shall have successfully completed work similar in size and materials as indicated in this project and shall submit a written account of successful in-service performance. Refer to Submittals in this Section for additional submittal information.

Field Supervision Qualifications for Selective Removal:

Selective Removal Company shall ensure that an experienced full-time supervisor is on the project site at all times when selective removal work is in progress. A single individual shall be responsible for supervising the selective removal work throughout the duration of the Project.

SAFETY

Verify that all gas and electrical utilities have been abandoned or disconnected and associated hazards mitigated, prior to beginning any selective removal.

Maintain a clean and orderly site. Remove debris at end of each workday.

Burning of debris is not permitted.

Hazardous materials are not anticipated, but if encountered, terminate operations and contact the Construction Representative immediately. Follow all applicable local, state and federal regulations pertaining to hazardous materials.

PERMITS

Unless otherwise noted, Contractor shall be responsible for obtaining and paying for all permits necessary to complete selective removal work.

REMOVAL/RECYCLING OF ITEMS

Carefully remove all carpet and related items for recycling.

Provide crates, padding, tarps and other measures necessary to protect salvaged items during storage.

All unused salvaged items shall be turned over to Owner, deliver to location on property where designated by Owner.

JOB CONDITIONS

Occupancy: Owner will occupy portions of the building immediately adjacent to areas of selective removals. Conduct selective removal work in manner that will minimize disruption of Owner's normal operations.

1 Condition of Structure: Owner assumes no responsibility for actual condition of items or structures to be  
2 removed.

3  
4 Damages: Promptly report to Architect/Engineer any damages caused to adjacent materials or finishes by  
5 selective removal work. Do not attempt repairs until directed by Architect/Engineer after review of  
6 contractor's proposed repair procedures and methods.

7  
8 Timing of Removals: When possible, conduct selective removal operations and debris removal to the early  
9 morning hours Monday through Friday to minimize disruption to the building occupants and to reduce dust  
10 infiltration.

11  
12 Do not close, block, or otherwise obstruct corridors, stairs, elevators, exit doors, exit signs, streets, walks,  
13 or other occupied or used facilities without written permission from the Owner.

14  
15  
16 P A R T 2 - M A T E R I A L S

17  
18 Not Applicable to This Section

19  
20 P A R T 3- E X E C U T I O N

21 C O N D I T I O N S

22 Examine the areas and conditions under which work of this Section will be performed. Notify Architect  
23 immediately of conditions detrimental to timely and proper completion of the work. Do not proceed until  
24 unsatisfactory conditions are corrected.

25  
26 P R O C E S S

27 No equipment or method of operation will be employed which will cause damage to building, materials or  
28 finishes which are to remain or are designated for salvage and reuse in the project.  
29 Use equipment which meets all safety requirements imposed on such equipment.

30  
31 Clean areas where demolition is being performed on a daily basis as work progresses to minimize dust and  
32 keep property clean and free from accumulation of rubbish and removed materials.

33  
34 Remove materials, excess debris, etc., resulting from removal operations from site as it accumulates. Do  
35 not store or permit debris to accumulate on-site. If Contractor fails to remove excess debris promptly,  
36 Architect reserves right to have debris removed at Contractor's expense.

37  
38 P R O T E C T I O N O F E X I S T I N G W O R K A N D F A C I L I T I E S

39 Take all measures necessary to safeguard all existing work and facilities which are both outside and inside  
40 the limits of the work.

41  
42 Provide and maintain adequate catch platforms, warning lights, barricades, guards, weather protection, dust  
43 protection, fences, planking, bracing, signs, and other items required for proper protection.

44  
45 Provide protection for workmen, public, adjacent construction and occupants of existing building(s).

46  
47 Report damage of any facilities or items scheduled for salvaging to the Owner Representative.

48  
49 Repair or replace any damaged facilities that are not scheduled for selective removal.

50  
51 Keep streets, driveways, walks and all other adjacent paved areas clean and swept clear of dirt, mud and  
52 debris deposited as a result of this operation.

1 Protect surrounding area from dust. Control rodents, and other vermin associated with selective removal  
2 operations.

3

4 SELECTIVE REMOVAL

5 Perform removal work in a systematic manner. Use such methods as required to complete work indicated  
6 on Drawings.

7

8 Completely remove items that are scheduled to be discarded and/or salvaged, leaving surfaces clean, solid,  
9 and ready to receive new materials specified elsewhere.

10

11 Conduct selective removal operations and the removal of rubbish and debris in such a way that a minimum  
12 of nuisance dust is caused. Constantly sprinkle rubbish and debris with water if necessary to keep nuisance  
13 dust to a minimum.

14

15 Operate equipment so as to cause a minimum of damage to plaster which is to remain, and so as to keep  
16 dust and dirt to a minimum.

17

18 TRANSPORTATION AND RECYCLING OF SELECTIVE REMOVAL WASTE

19 Transport and recycle all selective removal waste in accordance with local, state, and federal guidelines.

20

21 Maintain and submit all records to owner, documenting recycling and disposal of selective removal waste.  
22 Record description of material, date removed, quantity removed, method of transport and recycling/disposal  
23 destination.

24

25

END OF SECTION 02 41 13

26

## SECTION 09 65 13

### RESILIENT BASE AND ACCESSORIES

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Resilient base.
  - 2. Resilient molding accessories.

##### 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. LEED Submittals:
  - 1. Product Data for Credit IEQ 4.1: For adhesives, documentation including printed statement of VOC content.
  - 2. Laboratory Test Reports for Credit IEQ 4.1: For adhesives, documentation indicating that products comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
  - 3. Product Data for Credit IEQ 4.3: For adhesives, documentation including printed statement of VOC content.
  - 4. Product Data for Credit IEQ 4.3: For resilient stair accessories, documentation from an independent testing agency indicating compliance with the FloorScore standard.
  - 5. Laboratory Test Reports for Credit IEQ 4.3: For resilient stair accessories, documentation indicating that products comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- C. Samples: For each exposed product and for each color and texture specified, not less than 12 inches (300 mm) long.

#### PART 2 - PRODUCTS

##### 2.1 PERFORMANCE REQUIREMENTS

- A. FloorScore Compliance: Resilient base shall comply with requirements of FloorScore certification.

- B. Low-Emitting Materials: Flooring system shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.2 THERMOPLASTIC-RUBBER BASE <Insert drawing designation>

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
  - 1. Johnsonite; A Tarkett Company.
  - 2. Mondo Rubber International, Inc.
  - 3. Nora Systems, Inc.
  - 4. Roppe Corporation, USA.
- B. Product Standard: ASTM F 1861, Type TP (rubber, thermoplastic).
  - 1. Group: I (solid, homogeneous).
  - 2. Style and Location: Straight.
- C. Thickness: 0.125 inch (3.2 mm).
- D. Height: 4 inches (102 mm).
- E. Lengths: Cut lengths 48 inches (1219 mm) long or coils in manufacturer's standard length.
- F. Outside Corners: Job formed.
- G. Inside Corners: Job formed.
- H. Colors: Match Existing.

2.3 RUBBER MOLDING ACCESSORY <Insert drawing designation>

- A. Manufacturers: Subject to compliance with requirements, [provide products by the following] [provide products by one of the following] [available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following]:
  - 1. Roppe Corporation, USA.
  - 2. VPI, LLC, Floor Products Division.
  - 3. <Insert manufacturer's name>.
- B. Description: Rubber cap for cove carpet, cap for cove resilient flooring, carpet edge for glue-down applications, reducer strip for resilient flooring.
- C. Profile and Dimensions: As indicated on drawings.
- D. Locations: Document existing and match.
- E. Colors and Patterns: Match existing.

## 2.4 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.
  - 1. Adhesives shall have a VOC content of 50 g/L or less.
  - 2. Adhesives shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- C. Stair-Tread Nose Filler: Two-part epoxy compound recommended by resilient stair-tread manufacturer to fill nosing substrates that do not conform to tread contours.
- D. Floor Polish: Provide protective, liquid floor-polish products recommended by resilient stair-tread manufacturer.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates for Resilient Stair Accessories: Prepare horizontal surfaces according to ASTM F 710.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
  - 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
  - 4. Moisture Testing: Proceed with installation only after substrates pass testing according to manufacturer's written recommendations, but not less stringent than the following:
    - a. Perform anhydrous calcium chloride test according to ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
    - b. Perform relative humidity test using in situ probes according to ASTM F 2170. Proceed with installation only after substrates have maximum 75 percent relative humidity level.



- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
- D. Do not install resilient products until they are the same temperature as the space where they are to be installed.
- E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

### 3.2 RESILIENT BASE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient base.
- B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
- C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
- D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- E. Do not stretch resilient base during installation.
- F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
- G. Preformed Corners: Install preformed corners before installing straight pieces.
- H. Job-Formed Corners:
  - 1. Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 6 inches in length.
    - a. Form without producing discoloration (whitening) at bends.
  - 2. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
    - a. Miter corners to minimize open joints.
  - 3. Stairs: Miter base running continuous at stairs to match existing details.

### 3.3 RESILIENT ACCESSORY INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient accessories.
- B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.4 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.
- B. Floor Polish: Remove soil, visible adhesive, and surface blemishes from resilient stair treads before applying liquid floor polish.
  - 1. Apply one coat.
- C. Cover resilient products subject to wear and foot traffic until Substantial Completion.

END OF SECTION 09 65 13

## SECTION 09 68 16

### SHEET CARPET

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

##### 1.2 SUMMARY

- A. This Section includes the following:

- 1. Woven carpet.

- B. Related Sections include the following:

- 1. Division 1 Section "LEED Requirements" for additional LEED requirements.
  - 2. Division 1 Section "Selective Demolition" for removing existing floor coverings.
  - 3. Division 9 Section "Resilient Wall Base and Accessories" for resilient wall base and accessories installed with carpet.

##### 1.3 SUBMITTALS

- A. Product Data: Installation recommendations for each type of substrate:

- B. Shop Drawings: Show the following:

- 1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet.
  - 2. Existing flooring materials to be removed.
  - 3. Existing flooring materials to remain.
  - 4. Seam locations, types, and methods.
  - 5. Type of subfloor.
  - 6. Type of installation.
  - 7. Pattern type, repeat size, location, direction, and starting point.
  - 8. Pile direction.
  - 9. Type, color, and location of insets and borders.
  - 10. Type, color, and location of edge, transition, and other accessory strips.
  - 11. Transition details to other flooring materials.

- C. LEED Submittals:

- 1. Credit EQ 4.3: Manufacturers' product data for carpet and installation adhesive, including printed statement of VOC content.

- D. Product Schedule: For carpet. Use same designations indicated on Drawings.
- E. Qualification Data: For Installer.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency.
- G. Maintenance Data: For carpet to include in maintenance manuals. Include the following:
  - 1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
  - 2. Precautions for cleaning materials and methods that could be detrimental to carpet.

#### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.
- B. Fire-Test-Response Characteristics: Provide products with the critical radiant flux classification indicated in Part 2, as determined by testing identical products per ASTM E 648 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Mockups: Before installing carpet, build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  - 1. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- D. Preinstallation Conference: Conduct conference at Project site.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104, Section 5, "Storage and Handling."

#### 1.6 PROJECT CONDITIONS

- A. Comply with CRI 104, Section 7.2, "Site Conditions; Temperature and Humidity" and Section 7.12, "Ventilation."
- B. Environmental Limitations: Do not install carpet until ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

## PART 2 - PRODUCTS

### 2.1 WOVEN CARPET

- A. Products: Custom pattern carpet as provided by Owner, manufactured by Tai Ping Carpet Americas, Inc.:
- B. Yarn Content: Nylon Type 6.6.
- C. Face Construction: Axminster.
- D. Pile Characteristic: Cut pile.
- E. Pile Density: 5234.
- F. Pile Weight: 36.3 oz/sy.
- G. Pitch per inch: 7 (27.6 per dm).
- H. Total Weight: 64.8 oz/sy.
- I. Backing: Manufacturers standard.

### 2.2 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by carpet manufacturer.
  - 1. VOC Limits: Provide adhesives that comply with the following limits for VOC content when tested according to ASTM D 5116:
    - a. Total VOCs: 10.00 mg/sq. m x h.
    - b. Formaldehyde: 0.05 mg/sq. m x h.
    - c. 2-Ethyl-1-Hexanol: 3.00 mg/sq. m x h.
- C. Seam Adhesive: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for sealing and taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Examine carpet for type, color, pattern, and potential defects.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
  - 1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet manufacturer.
  - 2. Subfloor finishes comply with requirements specified in Division 3 Section "Cast-in-Place Concrete" for slabs receiving carpet.
  - 3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. General: Comply with CRI 104, Section 7.3, "Site Conditions; Floor Preparation," and with carpet manufacturer's written installation instructions for preparing substrates.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch (3 mm) wide or wider, and protrusions more than 1/32 inch (0.8 mm), unless more stringent requirements are required by manufacturer's written instructions.
- C. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by carpet manufacturer.
- D. Broom and vacuum clean substrates to be covered immediately before installing carpet.

### 3.3 INSTALLATION

- A. Comply with CRI 104 and carpet manufacturer's written installation instructions for the following:
  - 1. Direct-Glue-Down Installation: Comply with CRI 104, Section 9, "Direct Glue-Down Installation."
  - 2. Double-Glue-Down Installation: Comply with CRI 104, Section 10, "Double Glue-Down Installation."
  - 3. Stair Installation: Comply with CRI 104, Section 13, "Carpet on Stairs" for glue-down installation.

- B. Comply with carpet manufacturer's written recommendations and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.
- C. Do not bridge building expansion joints with carpet.
- D. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
- E. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.
- G. Install pattern parallel to walls and borders to comply with CRI 104, Section 15, "Patterned Carpet Installations" and with carpet manufacturer's written recommendations.

#### 3.4 CLEANING AND PROTECTING

- A. Perform the following operations immediately after installing carpet:
  - 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
  - 2. Remove yarns that protrude from carpet surface.
  - 3. Vacuum carpet using commercial machine with face-beater element.
- B. Protect installed carpet to comply with CRI 104, Section 16, "Protection of Indoor Installations."
- C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet manufacturer and carpet adhesive manufacturer.

END OF SECTION 09 68 16