

# **FACILITIES PLANNING, DESIGN & CONSTRUCTION**

Sixth Avenue and Grant Street • P.O. Box 172760 • Bozeman, Montana 59717-2760 Phone: (406) 994-5413 • Fax: (406) 994-5665

	F	REQUEST FOR PRO	POSAL	
Project Ti Location:	tle: Cooley Laboratory R Montana State Unive		PPA No.: RFP No.: Date:	10-0023 42 04/24/12
То:	Dick Anderson Constru 4498 Jackrabbit Lane Bozeman, MT 59718	action	_ Attention:	<u>Platisha</u>
From:	Cecilia Vaniman, Proje Cooley Lab Renovation Montana State University	1	Attention: 	
		minimize delays in the Work the urn a response by: 05/01/1		nt: <u>04/24/12</u> ed:
<b>RFP Stairs</b>	and Landing	gs flooring		
Reference Dra	awings: A1.0 thro	ough A1.9		
	•	519 & 09650 Resilient Tile	e Flooring	
Provide Pricing F	or the following (2) Op	otions - Colors from ⊗Standard	d color palette	
Option A:				
insert at t	Bamboo Surface Textu he treads. Rubber base at all land	re Rubber Stair Treads and Rise	rs with integral wide contras	sting solid rubber color
Areas of Stairwel	000, 001, 100, 101, 2	200, 201, 300, 301, 400, & 401		
Option B:				
<ul><li>Provide and Rise</li><li>Provide F</li></ul>	Bamboo Surface Texto	ure Rubber Floor tile for landing ure Rubber Stair Treads with inte lings.		rubber color insert.
Areas of Stairwel	000, 001, 100, 101, 2	200, 201, 300, 301, 400, & 401		
Attachment:	096519 Resilient	Tile Flooring – 09650- Res	silient Flooring	
	ricing purposes only. To owner in writing.	he contractor shall not proceed wi	th the scope of work describ	ed within until pricing
Distribution: [	Owner		Engineer	

Other

Agency



THE ULTIMATE FLOORING EXPERIENCE

# Product Specification

096519 RESILIENT TILE FLOORING

# **RUBBER STAIR TREADS**

#### PROPRIETARY PRODUCT/MANUFACTURER

1.1. **Proprietary Product**: Resilient Rubber Stair Treads A.D.A., Visually-Impaired, and California Title 24 Compliant

#### 1.2. Manufacturer:

Johnsonite, Inc. Phone (800) 899-8916 16910 Munn Road (440) 543-8916 Chagrin Falls, Ohio 44023 Tech: Ext 9297 Web: www.johnsonite.com Samples: Ext 9299 Email: Fax: (440) 543-8920 info@johnsonite.com

### 1.3. Proprietary Product Description:

1.3.1. Construction: Johnsonite Rubber Stair Treads are manufactured from a homogeneous composition of 100% synthetic rubber, high quality additives, and colorants to meet the performance requirements of ASTM F-2169 Standard Specification for Resilient Stair Treads, Type TS, Class 1 and 2, Group 1 and 2. All Johnsonite Stair Treads are available with a 2" (5.08 cm) wide strip of contrasting color to comply with A.D.A., Visually-Impaired, and California Title 24 requirements. Standard formulation exceeds ASTM E 648 Class 1 Flammability requirements.

Johnsonite Rubber Stair Treads are designed for interior applications only and not recommended for environments where the product will be exposed to animal fats, vegetable oils, or petroleum based materials. (i.e.: commercial kitchens)

### 1.3.2. Styles:

 RTR-RD & VIRTR-RD (Visually Impaired) - Roundel Round Raised Disk Pattern Rubber Stair Tread with Integrated Riser, 20" (51 cm) overall length, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .153" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

VIRTR-RD with 2" (5.0 cm) wide contrasting color grit tape insert

VIRTRS-RD with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIRTRP-RD with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

 RTR-SQ & VIRTR-SQ (Visually Impaired) - Roundel Square Raised Disk Pattern Rubber Stair Treads with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .153" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

VIRTR-SQ with 2" (5.0 cm) wide contrasting color grit tape insert

VIRTRS-SQ with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIRTRP-SQ with 2" (5.0 cm) wide contrasting

marbleized rubber color insert strip

 HTR & VIHTR (Visually Impaired) - Hammered Surface Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .153" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

VIHTR with 2" (5.0 cm) wide contrasting color grit tape insert

VIHTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIHTRP with 2" (5.0 cm) wide contrasting marbleized

• BMTR & VIBMTR (Visually Impaired) - Bamboo Surface Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .153" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

VIBMTR with 2" (5.0 cm) wide contrasting color grit tape insert

VIBMTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIBMTRP with 2" (5.0 cm) wide contrasting marbletzed rubber color insert strip

CUTR & VICUTR (Visually Impaired) - Cubis Surface
Texture Rubber Stair Tread with Integrated Riser, 2" (5.08
cm) hinged, square nose configuration, .210" (5.33 mm) to
.153" (3.89 mm) tapered 13" (33 cm) tread depth with 7"
(17.8 cm) integral riser

**VICUTR** with 2" (5.0 cm) wide contrasting color grit tape insert.

VICUTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VICUTRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

 CFLTR & VICFLTR (Visually Impaired) – Fast Lane Surface Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .153" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

**VICFLTR** with 2" (5.0 cm) wide contrasting color grit tape insert.

VICFLTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VICFLTRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip



# **RUBBER STAIR TREADS**

 HMT & VIHMT (Visually Impaired) - Roundel Hammered Pattern Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth

VIHMT with 2" (5.0 cm) wide contrasting color grit tape insert

VIHMTS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIHMTP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

 HMTD & VIHMTD (Visually Impaired) - Roundel Hammered Pattern Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 14" (35.6 cm) tread depth

VIHMTD with 2" (5.0 cm) wide contrasting color grit tape insert

**VIHMTDS** with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIHMTDP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

 RH-RD & VIRH-RD (Visually Impaired) - Roundel Round Raised Disk Pattern Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth

VIRH-RD with 2" (5.0 cm) wide contrasting color grit tape insert

VIRHS-RD with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIRHP-RD with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

 RH-SQ & VIRH-SQ (Visually Impaired) - Roundel Square Raised Disk Pattern Rubber Stair Treads, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth

VIRH-SQ with 2" (5.0 cm) wide contrasting color grit tape insert

VIRHS-SQ with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VIRHP-SQ with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

 CN – (Sq & Rd) Heavy Duty Diamond Rubber Stair Treads, 2" (5.08 cm) square nose or round nose configuration [designed for 3/4" (19 mm) stair nose radius], tapered from 0.240" (6.1 mm) to 0.140" (3.6 mm), 13" (33.02 cm) tread depth.

VICN with 2" (5.0 cm) wide contrasting color grit tape insert.

**VICNS** with 2" (5.0 cm) wide contrasting solid rubber color insert strip

VICNP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

 CNTR & VICNTR (Visually Impaired) - Heavy Duty Diamond Rubber Stair Treads with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, 0.240" (6.1 mm) to 0.125" (3.2 mm) taper, 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

VICNTR with 2" (5.0 cm) wide contrasting color grit tape insert.

**VICNTRS** with 2" (5.0 cm) wide contrasting solid rubber color insert strip

**VICNTRP** with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- **GS** Heavy Duty Smooth Rubber Stair Treads, Square nose configuration 1-7/8" (4.76 cm), 1/4" (6.35 mm) to 1/8" (3.17mm) tapered 13-1/4" (33.66 cm) tread depth
- G Heavy Duty Smooth Safe-T-Grip Rubber Stair Treads, Square nose configuration 1-7/8" (4.76 cm), 1/4" (6.35 mm) to 1/8" (3.17mm) tapered 13-1/4" (33.66 cm) tread depth, with two 1" wide grit tape inserts
- VIG Visually Impaired Heavy Duty Smooth Stair Treads, Square nose configuration 1-7/8" (4.76 cm), 1/4" (6.35 mm) to 1/8" (3.17mm) tapered 13-1/4" (33.66 cm) tread depth, with a 2" (5.0 cm) wide contrasting color grit tape or solid color rubber insert.
- S Service Weight Rubber Stair Treads, Square nose configuration is 1-5/8" (4.66 cm) with a hinge, 3/16" (4.76 mm) to 1/8" (3.17 mm) tapered 13-1/4" (33.66cm) tread depth. [Available with a Visually Impaired (VIS) 2" (5.0 cm) wide contrasting color grit tape or solid color rubber insert.]
- SG Sur-Grip Rubber Stair Treads Square nose configuration 1-5/8" (4.66 cm), 1-5/16" (3.33 cm) diameter 1/4" (6.35 mm) to 1/8" (3.17 mm) tapered 12-1/4" (31.12 cm) tread depth [Available with a Visually Impaired (VISG) 2" (5.0 cm) wide contrasting color grit tape or solid color rubber insert.]
- SA Service Weight Safe-T-Grip Rubber Stair Treads 1-5/8" (4.66 cm) square nose configuration, 3/16" (4.76 mm) to 1/8" (3.17 mm) tapered 13-1/4" (33.66 cm) tread depth, Two 1" (2.5 cm) wide grit tape inserts.

### 1.3.3. Physical Characteristics:

Lengths: 3', 3-1/2', 4', 4-1/2', 5', and 6' (.91 m, 1.07 m, 1.22 m, 1.37 m, 1.52 m, and 1.83 m) [Note: All VIRH-RD Series also available in 7 ft. (2.13 m) and

8 ft. (2.44 m) lengths] [Note: All VIRTR-RD and SQ. pattern also available in 7 ft. (2.13 m), 8 ft. (2.44 m), and 9 ft. (2.74 m) lengths]



# **RUBBER STAIR TREADS**

### 2. PRODUCT PERFORMANCE AND TECHNICAL DATA

- Tensile Strength: ASTM D 412 1200 psi
- Hardness: ASTM D 2240 Not less than 85 Shore A
- Abrasion Resistance: ASTM D 3389 less than 1 gram weight loss
- Slip Resistance: ASTM D 2047 Meets or Exceeds a static coefficient of friction of 0.8
- Fire Resistance:

ASTM E 648/NFPA 253 (Critical Radiant Flux): Class 1 ASTM E 662/NFPA 258 (Smoke Density), less than 450

### 3. INSTALLATION

The installation of Johnsonite Rubber Stair Treads should not begin until the work of all other trades has been completed, especially overhead trades. Areas to receive stair treads shall be clean, fully enclosed, weathertight, and maintained at a uniform temperature of at least 70°F for 24 hours before, during, and after the installation is completed. The stair treads and adhesives shall be conditioned in the same manner. Stair steps shall be smooth, flat, permanently dry, clean and free of all foreign material, such as dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt, and old adhesive residue. Stair Treads may be installed on any smooth, dry interior step. Do not install on exterior steps subject to weather. Stair shape shall conform closely to stair tread contour, especially where the flat part of the tread joins the nosing. An epoxy caulking nose filler shall be applied to ensure a tight fit and eliminate any open spaces between the step edge and stair tread nosing. Stair treads shall be trimmed to within 1/16" of the riser and stringer to allow for expansion. Adhesives shall be applied per Johnsonite's instructions. The stair tread and nosing portion of the stair tread shall be bonded directly to the step surface. Do not overlap the nosing over resilient riser material. Stair treads shall be rolled, with a J-hand roller, after installation, to ensure proper bonding.

# 3.1. Adhesives:

**Johnsonite 965** Flooring & Tread Adhesive Porous Substrates: 1/16" square-notched trowel

(Approximately 125 sq ft /gal)

Non-Porous Substrates: 1/16" V-notched trowel

(Approximately 145 sq ft /gal)

**Important:** This adhesive is substrate porosity sensitive. Determine if the substrate is porous or non-porous prior to application of the adhesive and installation of the flooring products and follow the appropriate instructions.

Johnsonite 945 Contact Bond Adhesive

Application: Brush or roller Coverage: Approx. 360 sq ft/gal

Johnsonite 930 Two-Part Epoxy Caulking Compound Application - Gun, knife, or 13-1/2 ounce cartridge (Use Johnsonite 530 dual-cartridge dispenser gun with cartridge) Coverage: Approx. 250 linear ft/gal or 50 linear with a 1/4" diameter bead per 13-1/2 ounce cartridge

### 4. AVAILABILITY AND COST

Available through authorized Johnsonite distributors nationwide.

### 5. WARRANTY

Limited 1 year warranty against defects in manufacturing and workmanship. For complete details, contact Johnsonite or an authorized Johnsonite distributor.

#### 6. MAINTENANCE

72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to Johnsonite Rubber Floor Tile and Rubber Stair Tread Maintenance Instructions for complete maintenance details.

### 7. TECHNICAL SERVICES

Samples: Submittal samples for verification and approval available upon request from Johnsonite. Samples shall be submitted in compliance with the requirements of the Contract Documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.

For current Installation and Maintenance Instructions, Product Specifications, and other technical data, visit us on the web at www.johnsonite.com or contact Johnsonite at 1-800-899-8916.

# **Johnsonite**

# Product Specification

09650 RESILIENT FLOORING

# Roundel® & CityScape™ Rubber Floor Tile

# 1. PROPRIETARY PRODUCT/MANUFACTURER

1.1 **Proprietary Product**: Resilient Rubber Floor Tiles - A.D.A. Compliant

### 1.2 Manufacturer:

Johnsonite, Inc., 16910 Munn Road Chagrin Falls, Ohio 44023 Phone: (800) 899-8916 (440) 543-8916 Fax: (440) 543-8920 Tech: Ext 297

Samples: Ext 299

Web: www.johnsonite.com E-mail: info@johnsonite.com

### 1.3 Proprietary Product Description

1.3.1 Construction: Johnsonite Rubber Floor Tiles are manufactured from a homogeneous composition of 100% synthetic rubber, high quality additives, and colorants to meet the performance requirements of ASTM F 1344, Class 1-A and 1-B Standard Specification for Rubber Floor Tile.

Johnsonite Rubber Floor Tiles are designed for interior applications only and not recommended for environments where the product will be exposed to animal fats, vegetable oils, or petroleum based materials (e.g.: commercial kitchens). Johnsonite rubber floor tiles require the use of chair pads in work station and similar high use caster wheel environments. Johnsonite rubber floor tiles are not warranted against cuts or lack of protection under caster wheels.

# 1.3.2 **Styles**:

RT-Rd - Roundel Round Raised Disk Pattern Rubber Tile, .125" (3.17 mm) and .155" (4.00 mm) thicknesses, Specify RTSP for speckled tile. (Not available in 12" x 12")

RT-Sq - Roundel Square Raised Disk Pattern Rubber Tile, .125" (3.17 mm) and .155" (4.00 mm) thicknesses, specify RTSP for speckled tile. (Not available in 12" x 12")

RET - Roundel Smooth Accent Rubber Tile, .100" (2.54 mm) and .130" (3.30 mm) thicknesses

C-Smooth - Smooth Surface Rubber Landing Tile, .125" (3.17 mm) thickness

**C-Diamond** - Diamond Surface Rubber Landing Tile, .187" (4.76 mm) thickness

FRT - Flagstone (Slate Surface) Rubber Floor Tile, .125" (3.17 mm) thickness, specify FRTSP for speckled tile

HRT - Hammered Surface Rubber Floor Tile, .125" (3.17 mm) thickness, specify HRTSP for speckled tile

CSH - Hammered Surface, Speckled Rubber Floor Tile, 2 mm (.079") thickness, 12" x 12" (30.5 cm x 30.5 cm), 52 tiles per

carton (52 sq. ft.) (4.8 sq. m.), 24" x 24" (61 cm x 61 cm), 12 tiles per carton 48 sq. ft. (4.4 sq m)

WRT - Weathered (Grained Surface) Rubber Floor Tile, .125" (3.17 mm) thickness, Specify WRTSP for speckled tile

BMRT-Bamboo Rubber Floor Tile, .125" (3.17 mm) thickness, (Not available in 12" x 12")

CBMRT - Chopped Bamboo Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

CRT - Cubis Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

ART - Artistic Square Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

PRT - Pebbles Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

CFL - Circulinity Fast Lane™ Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

CRB - Circulinity Round-A-Bout™ Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

CTR - Circulinity Tricycle™ Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

CTT - Circulinity Tic-Tac-Toe™ Rubber Tiles, 125" (3.17 mm) thickness (Not available in 12" x 12")

CEF - Circulinity Effervescent™ Rubber Tiles, 125" (3.17 mm) thickness (Not available in 12" x 12")

### 1.3.3 Physical Characteristics:

# Tile Size and Packaging:

- 24" x 24" (61 cm x 61 cm), .125" and .100" thick— 8 tiles per carton [32 ft² (2.9 m²)]
- 24" x 24" (61 cm x 61 cm), .155" and .130" thick 6 tiles per carton [24 ft² (2.2 m²)]
- 12" x 12" (30.5 cm x 30.5 cm), 40 tiles per carton 40 ft<sup>2</sup> (3.7 m<sup>2</sup>)

# 2. PRODUCT PERFORMANCE AND TECHNICAL DATA

- 2.1 Tensile Strength: ASTM D 412 > 1200 PSI
- 2.2 Hardness: ASTM D 2240 Not less than 85 Shore A
- 2.3 Abrasion Resistance: ASTM D 3389 < 1.0 gm weight loss
- 2.4 Slip Resistance: ASTM D 2047 Meets or Exceeds a static coefficient of friction of 0.8
- 2.5 Color Heat Stability: ASTM F 1514 < 8.0  $\Delta$ E
- 2.6 Acoustical: ASTM E- 492 Impact Insulation Class 40 IIC (Test performed with 1/8" thick tiles)
- 2.7 Static Load Limit: ASTM F 970 Passes at 250 PSI
- 2.8 Fire Resistance:
  - 2.8.1 ASTM E 648/NFPA 253 (Critical Radiant Flux), Class 1 2.8.2 ASTM E 662/NFPA 258 (Smoke Density), less than 450



2.9 Chemical Resistance: ASTM F 925, Passed - 5% Acetic acid, 70% Isopropyl alcohol, Sodium hydroxide solution (5% NaOH), Hydrochloric acid solution (5% HCl), Sulfuric acid solution (5% H<sub>2</sub>SO<sub>4</sub>), Household ammonia solution (5% NH<sub>4</sub>OH), Household bleach (5.25% NaOCI), Disinfectant cleaner (5% active phenol)

# 3. INSTALLATION

3.1 The installation of Johnsonite Rubber Floor Tiles should not begin until the work of all other trades has been completed, especially overhead trades. The areas to receive flooring materials shall be clean and fully enclosed. The area should be maintained at a minimum of 65° F and a maximum of 75° F for 48 hours before the installation, during the installation and for 48 hours after the installation is completed. The flooring materials and adhesives shall be conditioned in the same manner. Wood floors should be double construction with a minimum thickness of 1 inch. Material selection shall be made utilizing ASTM F 1482, Standard Guide to Wood Underlayments Available or Use under Resilient Floors. "Particle or chipboard" type underlayments are not acceptable. The floor must be rigid, free of movement and have at least 18" of well ventilated air space below. Concrete shall be prepared utilizing ASTM F 710, Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring. Floors shall be smooth, flat, permanently dry, clean and free of all foreign material such as dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt, and old adhesive residue. Floor covering shall not be installed over expansion joints. It is essential that moisture tests be taken on all concrete floors regardless of age and grade level. The test shall be in accordance with ASTM F-1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. One test should be conducted for every 1000 sq. ft. of flooring and the results not exceed 3 lbs. per 1000 sq. ft. in 24 hours. If the test results exceed the limitations, the installation must not proceed until the problem has been corrected. The flooring shall be dry laid and inspected by the installer, under normal, occupied lighting conditions, to ensure proper color and fit prior to final adhesive installation.

### 3.2 Adhesives:

- 3.2.1 Johnsonite #965 Flooring & Tread Adhesive
  - Porous Substrates: 1/16" square-notched trowel (Approximately 125 sq ft /gal)
  - Non-Porous Substrates: 1/16" V-notched trowel (Approximately 145 sq ft /gal)

**Important:** This adhesive is substrate porosity sensitive. Determine if the substrate is porous or non-porous prior to application of the adhesive and installation of the flooring products and follow the appropriate instructions.

3.2.2 Johnsonite #996 Two-Part Epoxy Adhesive

Application: 1/16" square notched trowel

(Approximately 150 sq. ft/gal)

3.2.3 Johnsonite #975 Two-Part Urethane Adhesive

Application: 1/16" square notched trowel

(Approximately 150 sq. ft/gal)

3.3 **Installation Manual:** Refer to Johnsonite Rubber Tile Installation Instructions for complete installation details.

# 4. AVAILABILITY AND COST

4.1 Available through authorized Johnsonite distributors nationwide.

#### 5. WARRANTY

5.1 Limited 5 year warranty for 2 mm and .125" (3.17 mm) rubber tiles and limited 10 year warranty for .155" (4 mm) rubber tiles. For complete details, contact Johnsonite or an authorized Johnsonite distributor.

### 6. MAINTENANCE

6.1 72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to Johnsonite Rubber Tile Maintenance Instructions for complete maintenance details.

# 7. TECHNICAL SERVICES

- 7.1 Samples: Submittal samples for verification and approval available upon request from Johnsonite. Samples shall be submitted in compliance with the requirements of the Contract Documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.
- 7.2 For current Installation and Maintenance Instructions, Product Specifications, and other technical data, visit us on the web at www.johnsonite.com or contact Johnsonite at 1-800-899-8916.



# Stringers and Risers

# 1. PROPRIETARY PRODUCT/MANUFACTURER

Proprietary Product: Resilient Stair Stringers and Risers

#### 1.1 Manufacturer:

Johnsonite, Inc., 16910 Munn Road Chagrin Falls, Ohio 44023 Phone: (800) 899-8916 (440) 543-8916 Fax: (440) 543-8920

Tech: Ext 297
Samples: Ext 299

Web: www.johnsonite.com E-mail: info@johnsonite.com

1.2 Construction: Johnsonite Rubber Stringers and Risers are manufactured from a proprietary thermoplastic rubber formulation designed specifically to meet the performance and dimensional requirements of ASTM F-1861, Type TP, Group 1 (solid) Standard Specification for Resilient Wall Base. Johnsonite Vinyl Stringers and Risers are formulated from a homogeneous polyvinyl chloride composition combined with high quality additives and colorants designed specifically to meet the performance and dimensional requirements of ASTM F-1861-98, Type TV, Group 1 (solid) Standard Specification for Resilient Wall Base.

### 1.3 Physical Characteristics:

Rubber Stringers (RS):

Size: 10" (25.4 cm) high x 6' (1.83 cm) long Thickness: .080" (2.03 mm) or .125" (3.17 cm)

Vinyl Stringers (VS):

Size: 10" (25.4 cm) high x 50' (15.24 m) long

Thickness: .080" (2.03 mm)

Rubber Risers (RR):

Sizes: 6" (15.24 cm) high x 4' (1.22 m) long 6" (15.24 cm) high x 100' (30.48 m) long 7" (17.78 cm) high x 4' (1.22 m) long 7" (17.78 cm) high x 5' (1.52 m) long 7" (17.78 cm) high x 6' (1.83 m) long 7" (17.78 cm) high x 50' (15.24 m) long Thickness: .125" (3.17 cm)

Vinyl Risers (VR):

Sizes: 6" (15.24 cm) high x 4' (1.22 m) long 6" (15.24 cm) high x 120' (36.58 m) long 7" (17.78 cm) high x 4' (1.22 m) long 7" (17.78 cm) high x 50' (15.24 m) long Thickness: .080" (2.03 mm)

### 2. PRODUCT PERFORMANCE AND TECHNICAL DATA

- 2.1 Hardness: ASTM D 2240 Not less than 85 Shore A
- 2.2 Flexibility: Will not crack, break, or show any signs of fatigue when bent around a 1/4" (6.35 mm) diameter cylinder.
- 2.3 Meets or exceeds the performance requirements for resistance to heat/light aging, chemicals, and dimensional stability when tested to the methods, as described, in ASTM F-1861.
- 2.4 Fire Resistance: ASTM E 84/NFPA 255 (Flame/Smoke) Class B, < 450 Smoke

### 3. INSTALLATION

3.1 The installation of Johnsonite Stair Stringers and Risers should not begin until the work of all other trades has been completed, especially overhead trades. Areas to receive stair stringers and risers shall be clean, fully enclosed, weathertight, and maintained at a uniform temperature of at least 65° F for 24 hours before, during, and after the installation is completed. The stair stringers, risers and adhesives shall be conditioned in the same manner. Stair step and adjacent surfaces shall be smooth, flat, level, permanently dry, clean and free of all foreign material, such as dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt, and old adhesive residue. Stair stringers and risers may be installed on any smooth, dry interior surface. Do not install on exterior surfaces subject to weather. Stringers and risers shall be trimmed to fit the contour of the stair step. Risers shall be trimmed to abut the bottom of the stair tread or nosing. Do not overlap nosing of stair tread or stair nosing over resilient riser material. Adhesives shall be uniformly applied per Johnsonite's recommendations. Stair stringers and risers shall be rolled, with a J-hand roller, after installation, to ensure proper bonding.

#### 3.2 Adhesives:

Porous surfaces:

Johnsonite #960 Acrylic Cove Base Adhesive

Application: 1/8" square notch trowel

Coverage: approximately 160 sq ft/gallon of 6" riser;

approximately 100 sq ft/gallon of 10" stringer

Non-porous surfaces:

Johnsonite #945 Contact Bond Adhesive

Application - Brush or roller

Coverage - approximately 360 sq ft/gallon

3.3 **Installation Manual:** Refer to Johnsonite Stair Tread, Nosing, Riser, and Stringer Installation Instructions for complete installation details.



# 4. AVAILABILITY AND COST

4.1 Available through authorized Johnsonite distributors nationwide.

### 5. WARRANTY

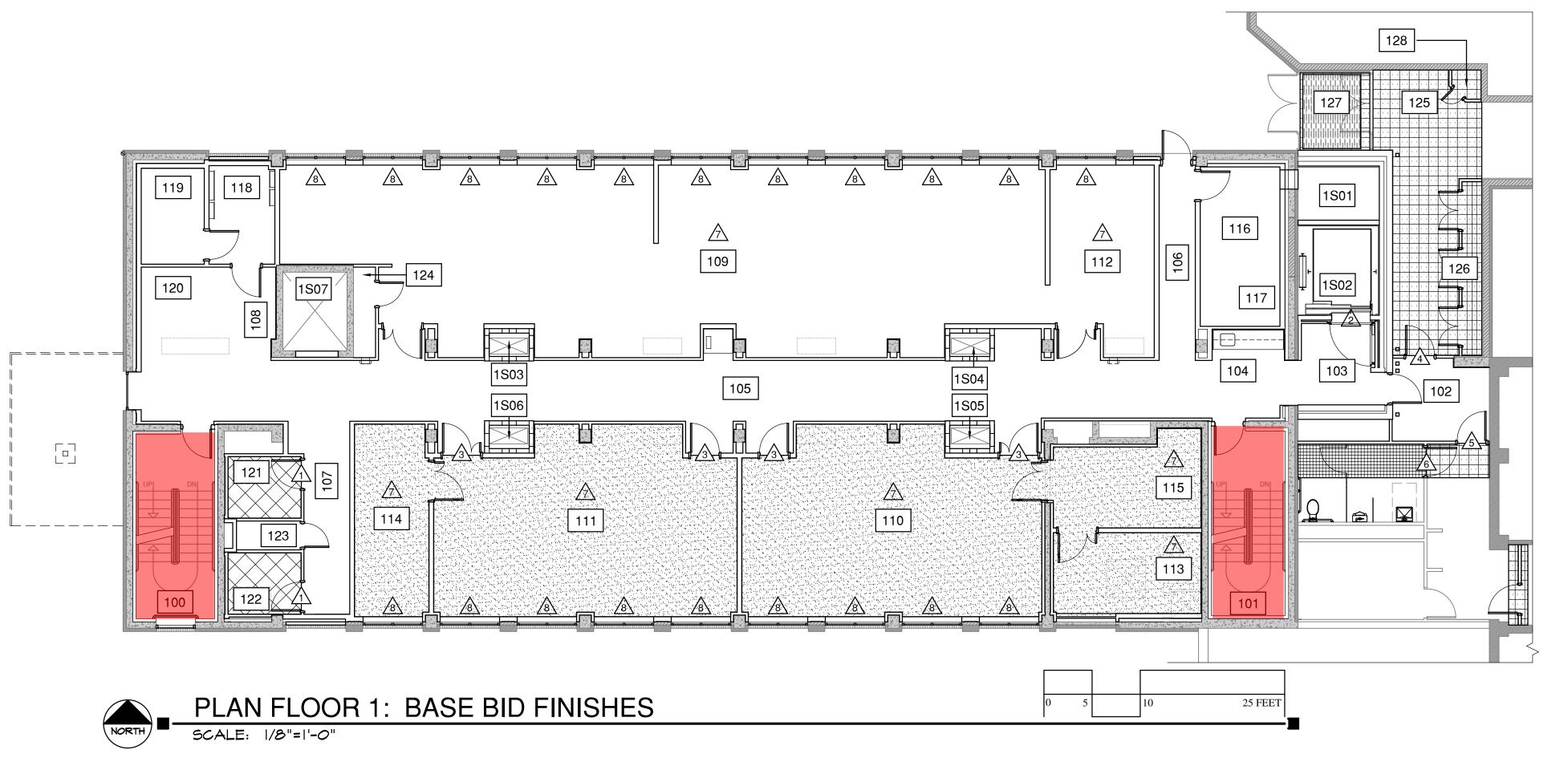
5.1 Limited 1 year warranty. For complete details, contact Johnsonite or an authorized Johnsonite distributor.

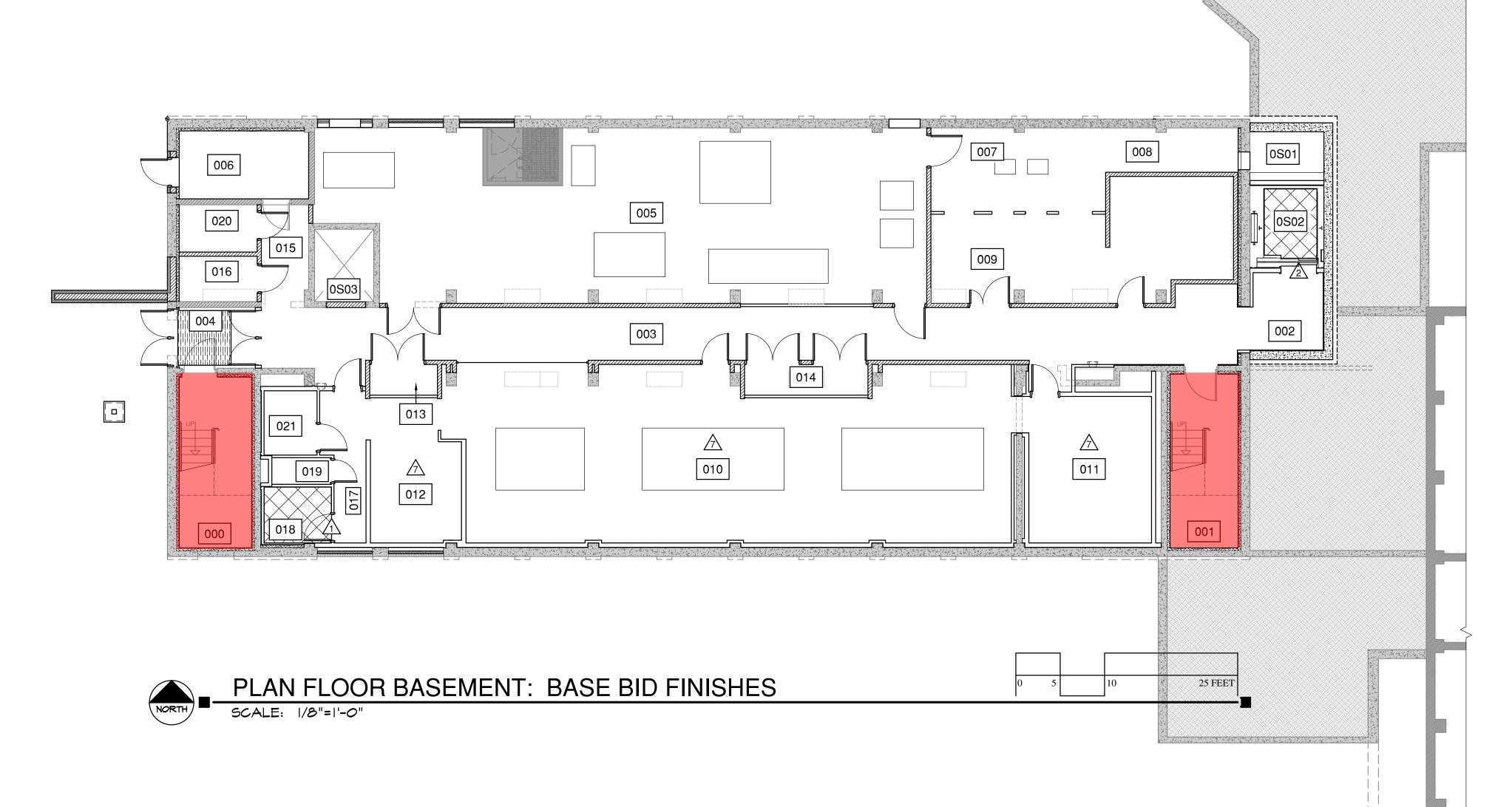
#### 6. MAINTENANCE

6.1 Refer to Johnsonite Stair Tread, Nosing, Riser, and Stringer Installation Instructions for complete maintenance details.

# 7. TECHNICAL SERVICES

- 7.1 Samples: Submittal samples for verification and approval available upon request from Johnsonite. Samples shall be submitted in compliance with the requirements of the Contract Documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.
- 7.2 For current Installation and Maintenance Instructions, Product Specifications, and other technical data, visit us on the web at www.johnsonite.com or contact Johnsonite at 1-800-899-8916.





# INDEX - BASE BID

18X18 PORCELAIN TILE

12X12 VINYL COMPOSITION TILE - REPLACE VCT AS REQUIRED IN THIS AREA, MATCH EXISTING

SHEET VINYL - EXTEND UP WALLS AS BASE

RESTROOM TILE - MATCH EXISTING

ENTRANCE FLOOR MAT & FRAME

SEALED CONCRETE

# **KEY NOTES**

TRANSITION RAMP - SEE I/A8.3

ELEVATOR EDGE - SEE 3/A8.3

TRANSITION EDGE - SEE 5/A8.3

TRANSITION EDGE - SEE 7/A8.3

TRANSITION EDGE - SEE 9/A8.3

TRANSITION EDGE - SIMILAR II/A8.4

SHEET METAL BACKING STRIPS ON ALL STUD WALLS PER 7/A8.0

[N] HORIZONTAL LOUVER BLINDS - 6'-2" WIDE BY 5'-6" HIGH - SITE CONFIRM EXACT REQUIRED DIMENSIONS

# FLOOR-1

# ROOM

100 [E] EXIT STAIR

101 [E] EXIT STAIR

102 [E] A.R.C. ACCESS

103 N ELEVATOR VESTIBULE

104 [N] COLLISION-COFFEE CABINET

105 N CORRIDOR

106 [N] CORRIDOR

107 [N] CORRIDOR

108 N CORRIDOR

109 [N] LABORATORY 110 | [N] LABORATORY

111 [N] LABORATORY

112 N LABORATORY

113 | [N] TISSUE CULTURE

114 [N] TISSUE CULTURE

115 [N] COMMON EQUIPMENT

116 [N] 2-4 DEG C COLD ROOM

117 N COLD ROOM VESTIBULE

118 [N] ELECTRICAL

119 [N] INFORMATION TECHNOLOGY

120 [N] COLLISION

121 [N] WOMEN

122 [N] MEN

123 [N] PLUMBING CHASE

| 124 | [N] LABORATORY SUPPORT CHASE

125 [E] CORRIDOR

126 N STORAGE

127 [E] VESTIBULE

128 [N] CLOSET

1S01 [N] EXTERIOR M/E SHAFT

1502 [N] ELEVATOR SHAFT

1803 [N] SHAFT ENCLOSURE

1804 [N] SHAFT ENCLOSURE

1905 [N] SHAFT ENCLOSURE

1506 [N] SHAFT ENCLOSURE

1807 [E] ELEVATOR SHAFT ENCLOSURE

# FLOOR-BASEMENT

ROOM

000 [E] EXIT STAIR

001 [E] EXIT STAIR

002 N ELEVATOR VESTIBULE

003 [E] CORRIDOR

004 N EXIT VESTIBULE

005 | [N] MECHANICAL

006 [E] TRANSFORMER VAULT

007 [N] STEAM CHASE

008 [N] AUTOCLAVE REPAIR

009 [N] AUTOCLAVE

010 [N] IMAGING

011 [N] LABORATORY

012 [N] LABORATORY

013 [N] IMAGING CLOSET

014 [N] IMAGING CLOSET

015 [N] HALLWAY

016 [N] CUSTODIAL

017 [N] HALLWAY-VESTIBULE

018 [N] TOILET

019 [N] PLUMBING CHASE

020 [N] INFORMATION TECHNOLOGY

021 [N] LASER DARK ROOM

0S01 [N] EXTERIOR M/E SHAFT

0S02 [N] ELEVATOR SHAFT

0S03 [E] ELEVATOR SHAFT ENCLOSURE

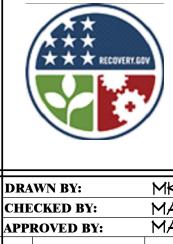
# **ROOM NAME & SIGNS**

- A. ALL ROOM NUMBERING INDICATED ON THE DRAWINGS IS FOR CONSTRUCTION REFERENCE ONLY. SPECIFICATION SECTION 10431 "SIGNS" IDENTIFIES OWNER'S FINAL ROOM NUMBERS
- B. REFERENCE SPECIFICATION SECTION 10431 FOR OWNER'S ROOM & SIGN SCHEDULE
- C. REFERENCE DRAWING SHEETS A9.9 \$ A9.10 FOR SIGN SIZE AND TEXT.
- D. CONTRACTOR SHALL USE OWNER'S ROOM NUMBERS ON ALL FINAL REQUIRED LABELING

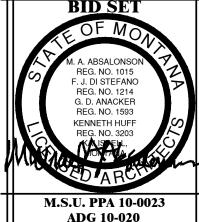
MONTANA STATE UNIVERSITY









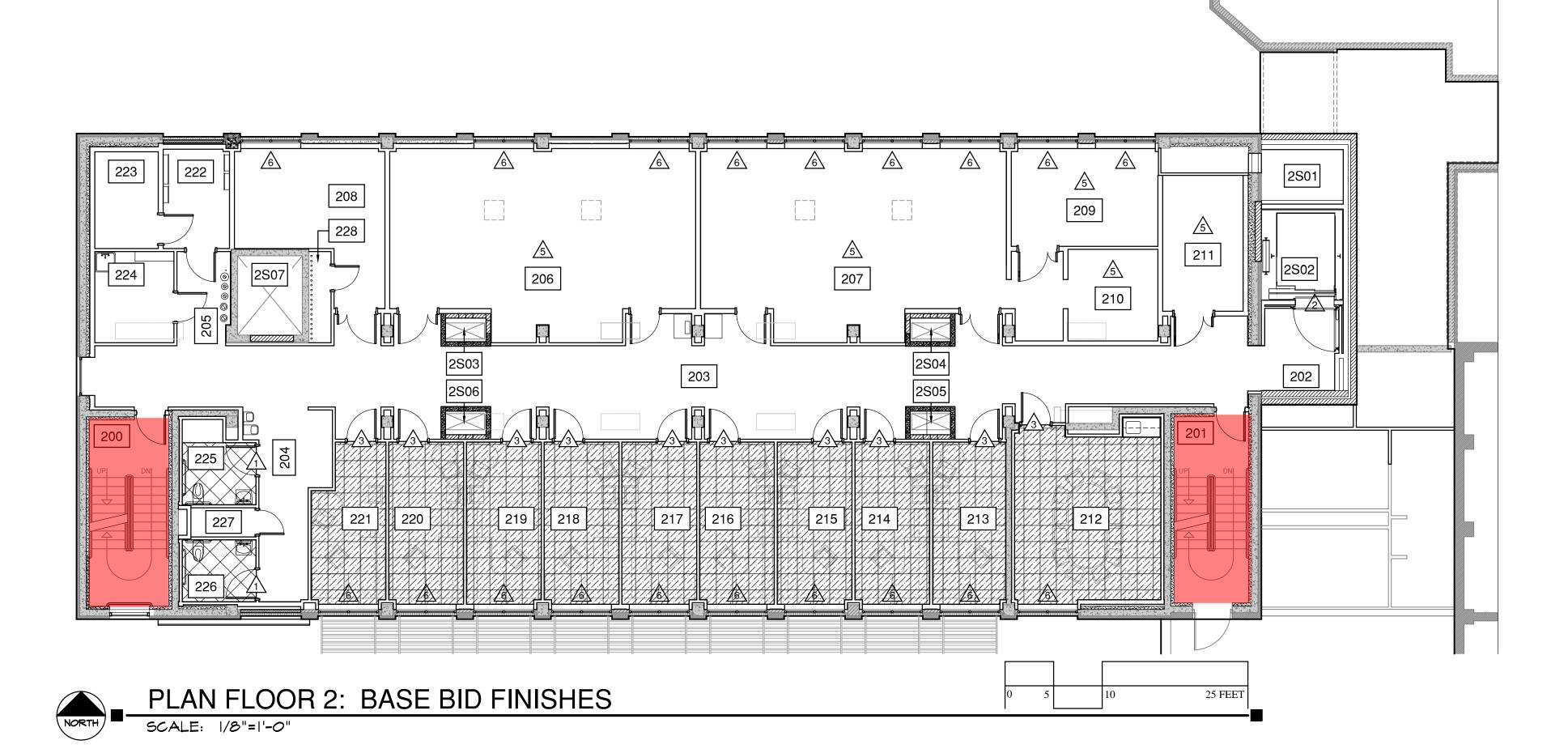


M.S.U. PPA 10-0023 ADG 10-020

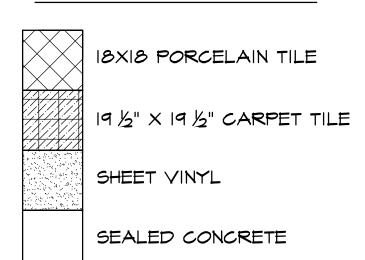
BASE BID

FINISHES B-I

March 14, 2011



# INDEX - BASE BID



# **KEY NOTES**

1	TRANSITION RA	AMP - SEE 1/A8.3
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ELEVATOR EDGE - SEE 3/A8.3

TRANSITION EDGE - SEE II/A8.3

TRANSITION EDGE - SEE 13/A8.3

PLACE SHEET METAL BLOCKING STRIPS ON ALL STUD WALLS PER 7/A8.0

[N] HORIZONTAL LOUVER BLINDS - 6'-2" WIDE BY 5'-6" HIGH - SITE CONFIRM EXACT REQUIRED DIMENSIONS

FLOOR-3	FLO
DOOM	DOOM

000	F-1	
300	[E] EXIT STAIR	
	· •	

**ROOM** 

301 [E] EXIT STAIR

302 [N] ELEVATOR VESTIBULE

303 [N] CORRIDOR

304 [N] CORRIDOR

305 [N] CORRIDOR

306 [N] LABORATORY

307 [N] LABORATORY

308 [N] LABORATORY

309 [N] TISSUE CULTURE

310 [N] TISSUE CULTURE

311 [N] COMMON EQUIPMENT

312 N COMMON EQUIPMENT

| 313 | [N] 2-4 DEG C COLD ROOM

314 [N] COMMON EQUIPMENT

315 | [N] OFFICE

316 N ELECTRICAL

317 [N] INFORMATION TECHNOLOGY

318 [N] CUSTODIAL

319 [N] WOMEN

320 [N] MEN

321 [N] GENERAL STORAGE

322 [N] PLUMBING CHASE

323 [N] LABORATORY SUPPORT CHASE 222 [N] ELECTRICAL

3S1 [N] M/E SHAFT

3S2 [N] ELEVATOR SHAFT

3S3 [N] SHAFT ENCLOSURE

3S4 [N] SHAFT ENCLOSURE

3S5 [N] SHAFT ENCLOSURE

3S6 [N] SHAFT ENCLOSURE

3S7 [E] ELEVATOR SHAFT ENCLOSURE

# OOR-2

ROOM

200 [E] EXIT STAIR

201 [E] EXIT STAIR

202 [N] ELEVATOR VESTIBULE

203 [N] CORRIDOR

204 [N] CORRIDOR

205 | [N] CORRIDOR

206 | [N] BIOINFORMATICS

207 [N] GENOMICS

208 [N] BIOINFORMATICS SERVERS

[N] NEXT GEN SEQUENCING

210 [N] LASER DISSECTION MICROSCOPE

211 [N] COMMON EQUIPMENT

212 [N] CONFERENCE

213 [N] OFFICE

214 [N] OFFICE

215 [N] OFFICE

216 NOFFICE

217 [N] OFFICE

218 NOFFICE

219 [N] OFFICE

220 [N] OFFICE

221 [N] OFFICE

223 [N] INFORMATION TECHNOLOGY

224 [N] CUSTODIAL

225 [N] WOMEN

226 [N] MEN

227 [N] PLUMBING CHASE

228 [N] LABORATORY SUPPORT CHASE

2S01 [N] M/E SHAFT

2S02 [N] ELEVATOR SHAFT

2S03 [N] SHAFT ENCLOSURE

2S04 [N] SHAFT ENCLOSURE

2805 [N] SHAFT ENCLOSURE

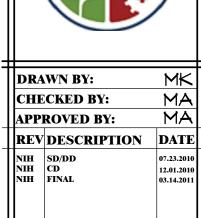
2S06 [N] SHAFT ENCLOSURE

2S07 [E] ELEVATOR SHAFT ENCLOSURE

MONTANA STATE UNIVERSITY

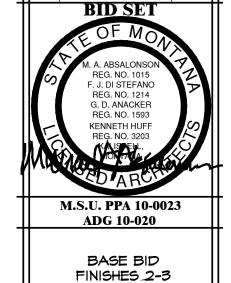


University Ova State Montana



AXXX

\* \* RECOVERY.GO



A1.13

March 14, 2011

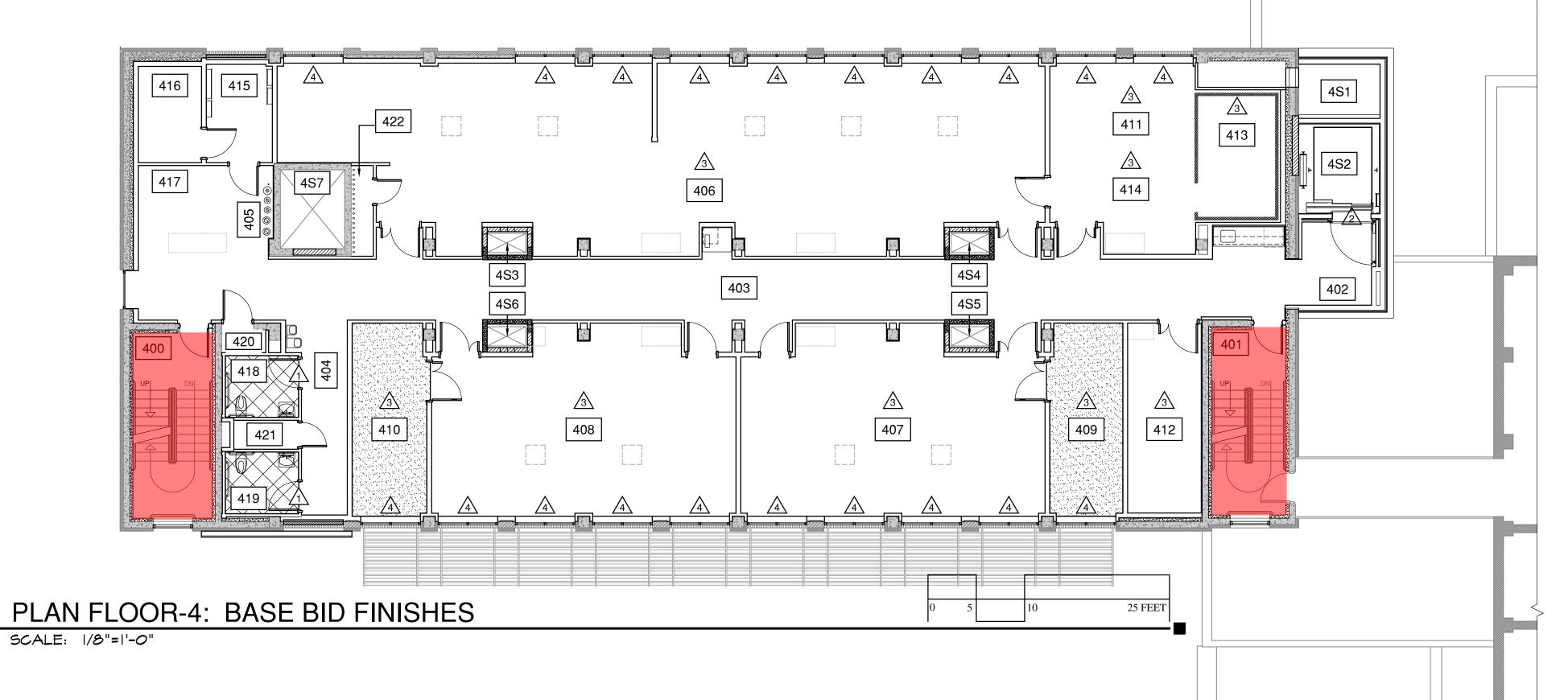
• Provide Bamboo Surface Texture Rubber Stair Treads and Risers with integral wide contrasting solid rubber color insert at treads.

Areas of Stairwell 000, 001, 100, 101, 200, 201, 300, 301, 400, & 401

# Option B:

Provide Bamboo Surface Texture Rubber Floor tile for landings.

Areas of Stairwell 000, 001, 100, 101, 200, 201, 300, 301, 400, & 401



# INDEX - BASE BID

18XI8 PORCELAIN TILE

SHEET VINYL

SEALED CONCRETE

# **KEY NOTES**

TRANSITION RAMP - SEE I/A8.3

[N] HORIZONTAL LOUVER BLINDS - 6'-2" WIDE BY 5'-6" HIGH - SITE CONFIRM EXACT REQUIRED DIMENSIONS

# FLOOR 4

400 [E] EXIT STAIR

401 [E] EXIT STAIR

402 [N] ELEVATOR VESTIBULE

403 [N] CORRIDOR

404 [N] CORRIDOR

405 [N] CORRIDOR

406 [N] LABORATORY

[N] LABORATORY

408 [N] LABORATORY

409 | [N] TISSUE CULTURE

410 [N] TISSUE CULTURE

411 [N] COMMON EQUIPMENT

412 N COMMON EQUIPMENT

413 [N] 2-4 DEG C COLD ROOM

414 [N] COMMON EQUIPMENT

415 [N] ELECTRICAL

416 [N] INFORMATION TECHNOLOGY

[N] COLLISION

418 [N] WOMEN

419 [N] MEN

420 [N] GENERAL STORAGE

421 [N] PLUMBING CHASE

422 [N] LABORATORY SUPPORT CHASE

4S1 [N] M/E SHAFT

4S2 [N] ELEVATOR SHAFT

4S3 [N] SHAFT ENCLOSURE

4S4 [N] SHAFT ENCLOSURE

4S5 [N] SHAFT ENCLOSURE 4S6 [N] SHAFT ENCLOSURE

4S7 [E] MECHANICAL SHAFT ENCLOSURE

# FLOOR 5

500 [N] EXIT STAIR 501 [N] EXIT STAIR

502 [N] ELEVATOR VESTIBULE

503 [N] MECHANICAL ROOM 504 [N] ELEVATOR CONTROLS

505 [N] MECHANICAL PLENUM

506 [N] CUSTODIAL

5S01 [N] M/E SHAFT

5802 [N] ELEVATOR SHAFT

State

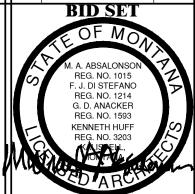
University

Architects Design Group Pc

PC



DRAWN BY: CHECKED BY: APPROVED BY:



A1.14

BASE BID FINISHES 4-5

March 14, 2011

# STRINGER DETAIL

SCALE 1/4" = 1'-0"