ADDENDUM NO. 1

THE CLUB AT WOODBRIDGE
INDOOR ICE RINK
585 MAIN STREET
WOODBRIDGE, NJ 07095

TOWNSHIP OF WOODBRIDGE
DEPARTMENT OF PURCHASING
ONE MAIN STREET
WOODBRIDGE, MIDDLESEX COUNTY, NJ 07095

August 19, 2020

CONTRACTOR SHALL SIGN AND ACKNOWLEDGE RECEIPT
OF THIS ADDENDUM (w/ #____ of pages received)
BY E-MAILING COVER PAGE BACK TO ARCHITECT

COMPANY NAME: ________________________________

SIGNATURE: ___________________________________

DATE: _______________________________________

The Club at Woodbridge
INDOOR ICE RINK
ADDENDUM NO. 1
TVC #18-27905  T & M #WOOD-00510
Page 1 of 3
ADDENDUM NO. 1

I. INTRODUCTION

A. The information contained herein revises, supplements and/or supersedes the specific parts of the Documents dated July 22, 2020 referred to, and shall be attached to and become part of such Documents as if originally forming a part thereof. Except as herein modified, all other provisions of the Contract Documents shall remain in full force as originally set forth. Additional work called for herein, unless otherwise described in this Addendum, shall comply with the requirements originally specified for similar work.

II. PRE-BID MEETING MINUTES dated 08/18/2020 at 10 AM

A. Attachment with Pre-Bid Meeting Sign-In Sheet.

III. QUESTIONS FROM BIDDERS:

<table>
<thead>
<tr>
<th></th>
<th>Question:</th>
<th>Response:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The specifications in section 096200 call for the rolled rubber flooring to be loose-laid and the use of adhesives is prohibited. This is not standard for rolled rubber products and there is the potential for water to penetrate under the flooring and cause mold issues. Can you clarify why these products are to have a loose-lay installation?</td>
<td>Use of floor adhesive for rolled product is mandatory.</td>
</tr>
<tr>
<td>2</td>
<td>In spec section 096200, Part 2.1 – B. it calls for Sportfloor ReAction 10mm material, with the color to be Black with Blue Speckles. Per Sportfloor’s website, they do not carry that color scheme for the ReAction product line. Is this supposed to be a custom color?</td>
<td>Color changes to Cobalt-640.</td>
</tr>
<tr>
<td>3</td>
<td>Please find attached substitution request for Compact Fleck to be substituted for the Skate Resistant Rubber Flooring as requested by Abacus Sports Installations, Ltd.</td>
<td>A side-by-side comparison was provided for both the Specified Product and Proposed Substitution Product. This office has determined that the Proposed Substitution Product is deemed an “or equal”. Therefore, the substitution request is acceptable. Refer to attachment provided by “Phelps Construction Group”.</td>
</tr>
<tr>
<td>4</td>
<td>Please find attached substitution request for PolyLife Lockers to be substituted for the HDPE Lockers as requested by Abacus Sports Installations, Ltd.</td>
<td>A side-by-side comparison was provided for both the Specified Product and Proposed Substitution Product. This office has determined that the sides, tops, bottom and shelf material thickness, of the Proposed Substitution Product is lesser when compared to the Basis-Of-Design product. Therefore, the substitution request is denied. Refer to attachment provided by “Phelps Construction Group”.</td>
</tr>
</tbody>
</table>

IV. CHANGES TO CONTRACT DOCUMENTS

A. SPECIFICATION:

1. Table of Contents has been revised to include the new specification section noted below.
2. Section 07 8413 “Penetration Firestopping”: new section.
3. Section 07-9200 “Joint Sealants” modified to include new system.
4. Section 09-6200 “Skate-Resistant Rubber Flooring” modifies installation and color.
B. DRAWINGS
   1. G1.1 – Revisions are clouded.
   2. A2.1 – Revisions are clouded.
   3. A2.5 - Revisions are clouded.
   4. A3.1 - Revisions are clouded.
   5. A3.2 – Revisions are clouded.
   6. A3.3 - Revisions are clouded.
   7. A3.4 - Revisions are clouded.
   8. A5.1 – Revisions are clouded.

V. LIST OF ATTACHMENTS

   A. Pre-Bid Meeting Minutes.
   B. Pre-Bid Meeting Sign-In Sheet.
   C. RFI submitted by Phelps Construction Group.

END OF ADDENDUM NO. 1
PRE-BID MEETING

DATE: August 18, 2020

PROJECT: The Club at Woodbridge
Indoor Ice Rink
585 Main Street
Woodbridge, NJ

PROJECT NO: 18-27905

TIME: 10 AM

LOCATION: Site

ATTENDEES
Jerry Volpe, QPA
Jennifer Burns
John Rusbarsky
Paul Losik
Ronald E. “Chip” Vaughn
M. Elaine Dasti

REPRESENTING
Woodbridge-Purchasing
Woodbridge-Purchasing
Woodbridge-Facilities
Woodbridge-Dept. of Recreation
The Vaughn Collaborative
T & M Associates

Contractors/Subs – See Attached Sign-In Sheet

1. Introduction of Woodbridge representatives - Jerry Volpe QPA (Purchasing), John Rusbarsky (Facilities); Architect’s representative TVC - Ronald E. “Chip” Vaughn, Jr.; MMD Consultants – Terry McLaughlin; Engineer’s representative T&M Associates-Elaine Dasti.

2. Review of administrative requirements for bid proposal including bonds and insurance. Mr. Volpe reviewed Township’s purchasing criteria and cautioned all Bidders to provide a complete package including all valid signed documentation. Incomplete documents may be cause for rejection of a bid proposal.
   a. PLA (Project Labor Agreement) – All present were directed to the criteria referenced in the Project Labor Agreement (PLA).

3. Construction Time: 360 Calendar Days commencing after Notice To Proceed (NTP). Architect’s office requested promptness with durations as Township anticipates September 2021 schedule of ice time.
   a. Liquidated damages are stipulated as $1,000.00/calendar day.
4. Permits: Fees shall be waived for building permits. Contractor is responsible for any Authority connection costs or other requirements to complete the work which may not be listed in the Project Manual/Drawings.

5. Deadline for questions is: Thursday, August 27, 2020 by 2 PM in writing to both the Architect’s Office (email - mail@tvcarch.com) and Engineer’s Office (email – Mdasti@TandMassociates.com).
   a. Return visit for subcontractors is 8/25/20.
   b. Engineer stated Mechanical addenda for fitness area of the building is to be sent to Architect on 8/31/20. Architect’s Office will distribute to all plan holders by September 2, 2020. If return visit is required, please coordinate with Owner.

6. Bids due: Thursday, September 10, 2020 at 11 AM at the Woodbridge Purchasing Department, 3rd Floor, One Main Street, Woodbridge, NJ. Late bids will be disqualified.

7. Work hours occupancy, on-site storage, parking
   • Certain sections of the building are to be maintained in operation.

8. A/E review of technical requirements: Coordination of all trades; Protection of site and Owner’s property, etc.

9. A/E misspoke, there will be an Addendum #1 being released on 8/19/20. It will include the wall crack repairs to the retaining wall, rigid insulation at existing concrete walls and the installation of a panel/soffit to cover existing utility pipes along interior south wall of building.

10. Question “Has wall insulation system been coordinated with existing sprinkler system?”
    Response: To follow in subsequent addendum.

[ End of Meeting Minutes ]
<table>
<thead>
<tr>
<th>Representative’s Name</th>
<th>Company Name &amp; Address</th>
<th>Telephone &amp; Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>John R.</td>
<td>Woodbridge Tivs</td>
<td>732-492-4178</td>
</tr>
<tr>
<td>Ray Vaughn</td>
<td>Vaughn Collaborative</td>
<td>609-530-7402</td>
</tr>
<tr>
<td>Terry MacLaughlin</td>
<td>MacLaughlin &amp; Design</td>
<td>609-486-0485</td>
</tr>
<tr>
<td>Ian Bennett</td>
<td>Everything Ice</td>
<td></td>
</tr>
<tr>
<td>Bill Batch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steve Hernandez</td>
<td>M-P Electric <a href="mailto:Bids@m-pelectric.com">Bids@m-pelectric.com</a></td>
<td></td>
</tr>
<tr>
<td>Christopher Renna</td>
<td>JP Bath Tech America</td>
<td><a href="mailto:cremo@telectamerica.com">cremo@telectamerica.com</a></td>
</tr>
<tr>
<td>Tyler Sharkey</td>
<td>Central Salvage Co.</td>
<td><a href="mailto:tsharesky@centralsalvage.com">tsharesky@centralsalvage.com</a></td>
</tr>
<tr>
<td>Peter Schaefer</td>
<td>PipeCraft Inc.</td>
<td></td>
</tr>
<tr>
<td>CHRIS JENKINS</td>
<td>Michael Pizzuto</td>
<td><a href="mailto:ejensen@leezio.com">ejensen@leezio.com</a></td>
</tr>
<tr>
<td>EDIC JENKINS</td>
<td></td>
<td><a href="mailto:ejensen@leezio.com">ejensen@leezio.com</a></td>
</tr>
<tr>
<td>Rich Lemke</td>
<td>Phelps Corn Group</td>
<td><a href="mailto:Richie@leemk.coni.com">Richie@leemk.coni.com</a></td>
</tr>
<tr>
<td>Jonathan Smith</td>
<td>Brain Eby</td>
<td><a href="mailto:jondouns@brainelsey.com">jondouns@brainelsey.com</a></td>
</tr>
<tr>
<td>Jim Harmon</td>
<td>Phelps Corn Group</td>
<td>jme @phelpscorn.com</td>
</tr>
<tr>
<td>Steve Goddard</td>
<td>Affordable Fire Protect Inc</td>
<td><a href="mailto:steve@afpi.uscom">steve@afpi.uscom</a></td>
</tr>
<tr>
<td>Keith Steedensky</td>
<td>Central Jersey Wrecking</td>
<td><a href="mailto:info@centraljerseywrecking.com">info@centraljerseywrecking.com</a></td>
</tr>
<tr>
<td>Urmac Tisher</td>
<td>Hall Building Corp.</td>
<td><a href="mailto:estimating@hallbuilding.com">estimating@hallbuilding.com</a></td>
</tr>
<tr>
<td>Jerry Vange AEA</td>
<td>Purchasing</td>
<td></td>
</tr>
<tr>
<td>Jim Burns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paul Loyen</td>
<td>Dept CE Recognize</td>
<td></td>
</tr>
<tr>
<td>Elaine Grisipe</td>
<td>Proj Ass</td>
<td></td>
</tr>
</tbody>
</table>
REQUEST FOR INFORMATION No. 01

ICE RINK AT THE CLUB
TOWNSHIP OF WOODBRIDGE
585 MAIN STREET
WOODBRIDGE, NJ 07095

TO: Sally
The Vaughn Collaborative
Mary Elaine Dasti, P.E.
T and M Associates

FROM: Richard Lemere
PHELPS CONSTRUCTION GROUP, LLC

RE: DRAWING: A2.1 Partial Lower Level Construction Floor Plan
A6.1 Room Finish Plan, Room Finish Schedule, Symbol Legend
SPECIFICATION: 096200 Skate Resist Rubber Flooring
105116 HDPE Lockers

SUBJECT: Product Substitution Request

1-1. Please find attached substitution request for Compact Fleck to be substituted for the Skate Resistant Rubber Flooring as requested by Abacus Sports Installations, Ltd.

1-2. Please find attached substitution request for PolyLife Lockers to be substituted for the HDPE Lockers as requested by Abacus Sports Installations, Ltd.
SUBSTITUTION REQUEST
(During the Bidding Phase)

Project: The Club at Woodbridge – Indoor Ice Rink
Substitution Request Number: 2

From: Andrew Crawford

To: The Vaugh Collaborative
Date: 8/14/20

Re: HDPE Lockers
A/E Project Number: 18-27905

Contract For: Abacus Sports Installations

Specification Title: High Density Polyethylene Lockers
Description: HDPE Lockers

Section: 10 5116 Page: 3 Article/Paragraph: 2.3.A

Proposed Substitution: PolyLife Lockers

Manufacturer: Columbia Lockers Address: 9031 Farrow Rd, Columbia, SC 29203 Phone: 803-252-3020
Trade Name: Athletic Lockers Model No.: 

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:
- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Andrew Crawford
Signed by: Andrew Crawford
Firm: Abacus Sports Installations Ltd.
Address: 2330 Dairy Road, Lancaster, PA 17601
Telephone: 717-560-8050

A/E’s REVIEW AND ACTION

☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: Date:

Supporting Data Attached: ☐ Drawings ☑ Product Data ☐ Samples ☐ Tests ☐ Reports ☐
Comparison of Columbia PolyLife Lockers to Scranton-Comtec Lockers

<table>
<thead>
<tr>
<th></th>
<th>Scranton-Comtec Products</th>
<th>Columbia PolyLife Lockers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Plastic Panels - Lockers</td>
<td>Duralife and &quot;Tufftec&quot;</td>
<td>Same</td>
</tr>
<tr>
<td>Recycled Content</td>
<td>Minimum 25 percent</td>
<td>Same</td>
</tr>
<tr>
<td>Locker Doors and Frames</td>
<td>1/2&quot; Thick - Door/Frame shall be machined from a single piece. Door/Frame attached with fasteners to locker body.</td>
<td>1/2&quot; Thick - Locker Door shall be the full width of the Locker Uni-Box® and shall be frameless allowing access to the entire width of the locker</td>
</tr>
<tr>
<td>Sides, Tops, Bottoms and Shelves</td>
<td>1/2&quot; Thick</td>
<td>3/8&quot; Thick</td>
</tr>
<tr>
<td>Latch</td>
<td>Continuous Type manufactured form HDPE, capable of accepting various locking mechanisms, fastened to entire length of door.</td>
<td>Patented Latching Mechanism with multiple contact points that provides maximum security. Capable of accepting various locking mechanisms.</td>
</tr>
<tr>
<td>Locking Mechanism</td>
<td>Standard - Hasp for padlock</td>
<td>Same</td>
</tr>
<tr>
<td></td>
<td>Optional - Key Locks, Mechanical &amp; Digital Combination Locks.</td>
<td></td>
</tr>
<tr>
<td>Assembly Profile</td>
<td>Locker Box Enclosure shall be assembled by means of machined joints, pins and tamper resistant fasteners.</td>
<td>Uni-Box Locker Body Construction. The Uni-Box incorporates Mortise &amp; Tenon Construction and is mechanically fastened to the Locker Side, Top, Bottom, and Shelves with 304 S/S Torx Head Fasteners This assembly method provides the strongest and most durable Locker Frame available in Solid HDPE Plastic Lockers.</td>
</tr>
<tr>
<td>Coat Hooks</td>
<td>Zinc plated forged steel, ball ends.</td>
<td>(2) Type 304 Stainless Steel Coat Hooks attached to the side of the locker body with S/S Theft Proof Thru Bolts.</td>
</tr>
</tbody>
</table>

Columbia Lockers are made from the same materials, some of the major differences are: Uni-Box construction and larger face openings which provides access to accommodate Helmets, Basketballs, Back Packs, Computer Bags, Duffel Bags and other large items.
**SUBSTITUTION REQUEST**
(During the Bidding Phase)

<table>
<thead>
<tr>
<th>Project: The Club at Woodbridge – Indoor Ice Rink</th>
<th>Substitution Request Number: 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>To: The Vaughn Collaborative</td>
<td>From: Andrew Crawford</td>
</tr>
<tr>
<td>Re: Rubber Flooring</td>
<td>Date: 8/14/20</td>
</tr>
<tr>
<td>A/E Project Number: 18-27905</td>
<td>Contract For: Abacus Sports Installations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification Title: Skate Resistant Rubber Flooring</th>
<th>Description: Vulcanized Athletic Rubber Flooring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section: 09 6200</td>
<td>Article/Paragraph: 2.1.A</td>
</tr>
</tbody>
</table>

**Proposed Substitution:** Compact Fleck

<table>
<thead>
<tr>
<th>Manufacturer: OSST Sport</th>
<th>Address: 1258 N Rose Farm Rd, Unit 4, Woodstock, IL 60098</th>
<th>Phone: 815-206-0049</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Name: Resilient Athletic Flooring</td>
<td>Model No.: __________</td>
<td></td>
</tr>
</tbody>
</table>

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

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- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Andrew Crawford
Signed by: Andrew Crawford
Firm: Abacus Sports Installations Ltd.
Address: 2330 Dairy Road, Lancaster, PA 17601
Telephone 717-560-8050

---

**A/E’s REVIEW AND ACTION**

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- [ ] Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- [ ] Substitution rejected - Use specified materials.
- [ ] Substitution Request received too late - Use specified materials.

Signed by: ___________________________ Date: ___________________________

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**Supporting Data Attached:**
- [ ] Drawings
- [X] Product Data
- [ ] Samples
- [ ] Tests
- [ ] Reports
- [ ] ________
# ComPact Fleck vs Mondo Ramflex

<table>
<thead>
<tr>
<th>Test</th>
<th>Compact Fleck</th>
<th>Ramflex</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thickness Available</strong></td>
<td>6mm, 8mm, 10mm</td>
<td>6mm, 8mm, 10mm</td>
</tr>
<tr>
<td><strong>Tensile Strength</strong></td>
<td>ASTM D412</td>
<td>650</td>
</tr>
<tr>
<td><strong>Elongation to Break</strong></td>
<td>ASTM D412</td>
<td>200%</td>
</tr>
<tr>
<td><strong>Static Load Limit</strong></td>
<td>ASTM D412</td>
<td>0.16 in.</td>
</tr>
<tr>
<td><strong>Shore Hardness Wear Layer</strong></td>
<td>ASTM D2240</td>
<td>82</td>
</tr>
<tr>
<td><strong>Shore Hardness Backing</strong></td>
<td>ASTM D2240</td>
<td>75</td>
</tr>
<tr>
<td><strong>Abrasion Resistance</strong></td>
<td>ASTM D3389</td>
<td>≤0.04 g</td>
</tr>
<tr>
<td><strong>Fungi Resistance</strong></td>
<td>ASTM G21-15</td>
<td>Level 0</td>
</tr>
<tr>
<td><strong>Critical Radiant Flux</strong></td>
<td>ASTM E648-03</td>
<td>0.49 w/cm²</td>
</tr>
<tr>
<td><strong>Anti-microbial/Anti-fungal properties</strong></td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Greenguard</strong></td>
<td>Compliant</td>
<td>Compliant</td>
</tr>
<tr>
<td><strong>Greenguard Gold</strong></td>
<td>Compliant</td>
<td>Compliant</td>
</tr>
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</table>
ADDENDUM NO. 1

All changes are identified with left-side vertical bar.

August 19, 2020

SECTION 00 0001 - TABLE OF CONTENTS

A. Specifications for this Project are arranged in accordance with the Construction Specifications Institute numbering system and format. Division and Section numbering is discontinuous and all numbers not appearing in the Table of Contents are not used for the portions of the Project described below.

B. The Construction Documents prepared by the Vaughn Collaborative address the Bidding, Contract, General Conditions and Architectural portions of this project. A separate set of Construction Documents, prepared by T&M Associates, address the Civil, Structural, Fire Protection, Plumbing, Mechanical and Electrical portions of this project. The Contractor must coordinate all of their work activities using both sets of Construction Documents.

C. DOCUMENTS BOUND HEREWITH

DIVISION 00 - BIDDING AND CONTRACT REQUIREMENTS

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<td>00 1000</td>
<td>Woodbridge Instructions to Bidders II (Part A-S) and III Forms</td>
<td>1 - 25</td>
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<td>00 1002</td>
<td>Woodbridge – Project Labor Agreement (PLA)</td>
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<td>Bid Document Checklist</td>
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<td>Bid Proposal Form</td>
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<td>00 3132</td>
<td>Geotechnical Report</td>
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<td>General Conditions of the Contract for Construction AIA Document A201 – 2017</td>
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<td>00 8000</td>
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DIVISION 01 - GENERAL REQUIREMENTS

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<th>Division</th>
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</thead>
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<td>Allowances</td>
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<td>01 2500</td>
<td>Substitution Procedures</td>
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<td>01 2600</td>
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<tr>
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<td>01 4200</td>
<td>References</td>
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<td>01 7823</td>
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The Club At Woodbridge
INDOOR ICE RINK

TVC Project No.: 18-27905

00 0001 - 1
DIVISION 02 – EXISTING CONDITIONS
02 4119 Selective Demolition 1 – 6

DIVISION 03 – CONCRETE
03 1000 Concrete Forming and Accessories Included in T & M Assoc. Project Manual
03 2000 Concrete Reinforcing Included in T & M Assoc. Project Manual
03 3000 Cast-In-Place Concrete Included in T & M Assoc. Project Manual
03 6000 Grouting Included in T & M Assoc. Project Manual

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04 7200 Cast Stone Masonry 1 – 4

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05 3123 Steel Roof Decking Included in T & M Assoc. Project Manual
05 4000 Cold Formed Metal Framing Included in T & M Assoc. Project Manual
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*Included in T & M Assoc. Project Manual*

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| 32 1123 | Aggregate Base Courses | *Included in T & M Assoc. Project Manual* |
| 32 1313 | Concrete Paving | *Included in T & M Assoc. Project Manual* |
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See T & M Associates Contract Drawings Cover Sheet for Schedule of Drawings

END OF SECTION 00 0001
SECTIO

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.

2. SUMMARY
   A. Section includes penetration firestopping as detailed on the drawings.

3. ACTION SUBMITTALS
   A. Product Data: For each type of product.
   B. Product Schedule: For each penetration firestopping system. Include location, illustration of firestopping system, and design designation of qualified testing and inspecting agency.

4. CLOSEOUT SUBMITTALS
   A. Installer Certificates: From Installer indicating that penetration firestopping systems have been installed in compliance with requirements and manufacturer's written instructions.

5. PROJECT CONDITIONS
   A. Environmental Limitations: Do not install penetration firestopping system when ambient or substrate temperatures are outside limits permitted by penetration firestopping system manufacturers or when substrates are wet because of rain, frost, condensation, or other causes.
   B. Install and cure penetration firestopping materials per manufacturer's written instructions using natural means of ventilations or, where this is inadequate, forced-air circulation.

6. COORDINATION
   A. Coordinate construction of openings and penetrating items to ensure that penetration firestopping systems can be installed according to specified firestopping system design.
   B. Coordinate sizing of sleeves, openings, core-drilled holes, or cut openings to accommodate penetration firestopping systems.

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PENETRATION FIRESTOPPING

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PART 2 - PRODUCTS

2.1 PENETRATION FIRESTOPPING SYSTEMS

A. Refer to Detail 3/A2.1 for Penetration Firestopping System.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for opening configurations, penetrating items, substrates, and other conditions affecting performance of the Work.

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

3.2 PREPARATION

A. Surface Cleaning: Before installing penetration firestopping systems, clean out openings immediately to comply with manufacturer's written instructions.

B. Prime substrates where recommended in writing by manufacturer using that manufacturer's recommended products and methods. Confine primers to areas of bond; do not allow spillage and migration onto exposed surfaces.

3.3 INSTALLATION

A. General: Install penetration firestopping systems to comply with manufacturer's written installation instructions and published drawings for products and applications.

B. Install forming materials and other accessories of types required to support fill materials during their application and in the position needed to produce cross-sectional shapes and depths required to achieve fire ratings.

C. Install fill materials by proven techniques to produce the following results:

3.4 IDENTIFICATION

A. Penetration Identification: Identify each penetration firestopping system with legible metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches (150 mm) of penetration firestopping system edge so labels are visible to anyone seeking to remove penetrating items or firestopping systems. Use mechanical fasteners or self-adhering-type labels with adhesives capable of permanently bonding labels to surfaces on which labels are placed. Include the following information on labels:
Entire section is added by this Addendum.

1. The words "Warning - Penetration Firestopping - Do Not Disturb. Notify Building Management of Any Damage."
2. Contractor's name, address, and phone number.
3. Designation of applicable testing and inspecting agency.
4. Date of installation.
5. Manufacturer's name.
6. Installer's name.

3.5 CLEANING AND PROTECTION

A. Clean off excess fill materials adjacent to openings as the Work progresses by methods and with cleaning materials that are approved in writing by penetration firestopping system manufacturers and that do not damage materials in which openings occur.

B. Provide final protection and maintain conditions during and after installation that ensure that penetration firestopping systems are without damage or deterioration at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, immediately cut out and remove damaged or deteriorated penetration firestopping material and install new materials to produce systems complying with specified requirements.

END OF SECTION 078413
SECTION 07 9200 - JOINT SEALANTS

PART 1 - GENERAL

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

1.2 SUMMARY
   A. Section Includes:
      1. Silicone joint sealants.
      2. Urethane joint sealants.
      3. Sealant tape for metal panel lap joints.

1.3 ACTION SUBMITTALS
   A. Product Data: For each joint-sealant product.
   B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.
   C. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- (13-mm-) wide joints formed between two 6-inch- (150-mm-) long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
   D. Joint-Sealant Schedule: Include the following information:
      1. Joint-sealant application, joint location, and designation.
      2. Joint-sealant manufacturer and product name.

1.4 INFORMATIONAL SUBMITTALS
   A. Qualification Data: For qualified testing agency.
   B. Product Test Reports: For each kind of joint sealant, for tests performed by manufacturer and witnessed by a qualified testing agency.
   C. Preconstruction Laboratory Test Reports: From sealant manufacturer, indicating the following:
      1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.
      2. Interpretation of test results and written recommendations for primers and substrate preparation are needed for adhesion.

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E. Field-Adhesion-Test Reports: For each sealant application tested.

F. Sample Warranties: For special warranties.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

B. Product Testing: Test joint sealants using a qualified testing agency.
   1. Testing Agency Qualifications: Qualified according to ASTM C1021 to conduct the testing indicated.

C. Mockups: Install sealant in mockups of assemblies specified in other Sections that are indicated to receive joint sealants specified in this Section. Use materials and installation methods specified in this Section.

1.6 PRECONSTRUCTION TESTING

A. Preconstruction Laboratory Testing: Submit to joint-sealant manufacturers, for testing indicated below, samples of materials that will contact or affect joint sealants.
   1. Adhesion Testing: Use ASTM C794 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
   2. Compatibility Testing: Use ASTM C1087 to determine sealant compatibility when in contact with glazing and gasket materials.
   3. Submit manufacturer's recommended number of pieces of each type of material, including joint substrates, joint-sealant backings, and miscellaneous materials.
   4. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
   5. For materials failing tests, obtain joint-sealant manufacturer's written instructions for corrective measures, including use of specially formulated primers.
   6. Testing will not be required if joint-sealant manufacturers submit data that are based on previous testing, not older than 24 months, of sealant products for adhesion to, staining of, and compatibility with joint substrates and other materials matching those submitted.

B. Preconstruction Field-Adhesion Testing: Before installing sealants, field test their adhesion to Project joint substrates as follows:
   1. Locate test joints where indicated on Project or, if not indicated, as directed by Architect.
   2. Conduct field tests for each kind of sealant and joint substrate.
   3. Notify Architect seven days in advance of dates and times when test joints will be erected.
   4. Arrange for tests to take place with joint-sealant manufacturer's technical representative present.

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1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.

b. Report whether sealant failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. For sealants that fail adhesively, retest until satisfactory adhesion is obtained.
c. Evaluation of Preconstruction Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing, in absence of other indications of noncompliance with requirements, will be considered satisfactory. Do not use sealants that fail to adhere to joint substrates during testing.

1.7 FIELD CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:
   1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer.
   2. When joint substrates are wet.
   3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
   4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.8 WARRANTY

A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
   1. Warranty Period: One year from date of Substantial Completion.

B. Warranties specified in this article exclude deterioration or failure of joint sealants from the following:
   1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
   2. Disintegration of joint substrates from causes exceeding design specifications.
   3. Mechanical damage caused by individuals, tools, or other outside agents.
   4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 - PRODUCTS

2.1 JOINT SEALANTS, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

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JOINT SEALANTS

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2.2 NONSTAINING SILICONE JOINT SEALANTS

A. Silicone, S, NS, 50, NT: Single-component, nonsag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 50, Use NT.
   1. Basis-Of-Design: Sika Corporation; Sikasil WS-295; or equal.

2.3 URETHANE JOINT SEALANTS

A. Urethane, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.
   1. Basis-Of-Design (excluding Snow Melt Pit): Sika Corporation; Sikaflex 15LM; or equal.
   2. Basis-Of-Design at Snow Melt Pit only: Sika Corporation; Sikaflex -1C SL; or equal.

2.4 SELF-ADHERING POLYMERIC RUBBERIZED TAPE

A. Self-adhering polymeric rubberized tape with plastic release liner on underside and woven polyester facer top side.
   1. Basis-Of-Design: Sika Corporation; Sika Joint Tape SA; or equal.
   2. Tape width: 3 inches.
   3. Tape thickness: 30 mils.

B. Prior to applying above product, prime existing wall and roof panels with the following:
   1. Basis-Of-Design: Sika Corporation; Sika Joint Tape SA Primer; or equal.

2.5 JOINT-SEALANT BACKING

A. Sealant Backing Material, General: Non-staining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

B. Cylindrical Sealant Backings: ASTM C1330, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.6 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.

C. Masking Tape: Non-staining, non-absorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.

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

3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
   1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
   2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
      a. Concrete.
      b. Masonry.
      c. Exterior insulation and finish systems.
      d. Fiberglass infused gypsum wallboard.
   3. Remove laitance and form-release agents from concrete.
   4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
      a. Metal.
      b. Glass.

B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer’s written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
   1. Do not leave gaps between ends of sealant backings.
   2. Do not stretch, twist, puncture, or tear sealant backings.
   3. Remove absorbent sealant backings that have become wet before sealant application, and replace them with dry materials.

D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
   1. Place sealants so they directly contact and fully wet joint substrates.
   2. Completely fill recesses in each joint configuration.
   3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
   1. Remove excess sealant from surfaces adjacent to joints.
   2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
   3. Provide concave joint profile per Figure 8A in ASTM C1193 unless otherwise indicated.

3.4 FIELD QUALITY CONTROL

A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:
   1. Extent of Testing: Test completed and cured sealant joints as follows:
      a. Perform 10 tests for the first 1000 feet (300 m) of joint length for each kind of sealant and joint substrate.
a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.

3. Inspect tested joints and report on the following:
   a. Whether sealants filled joint cavities and are free of voids.
   b. Whether sealant dimensions and configurations comply with specified requirements.
   c. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion complies with sealant manufacturer's field-adhesion hand-pull test criteria.

4. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant material, sealant configuration, and sealant dimensions.

5. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

B. Evaluation of Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.5 CLEANING

A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.6 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.7 JOINT-SEALANT SCHEDULE

A. **JS-01**: Joint-Sealant Application: Interior face of roof and wall lap seams.
   1. Joint Sealant: Sikaflex Sika Joint Tape SA.

B. **JS-02**: Joint-Sealant Application: Interior face of roof and wall panels and covering joint tape.
   1. Joint Sealant: Sikalastic 641 Lo-VOC.
C. **JS-03:** Joint-Sealant Application: Interior junction at metal wall panel and top of concrete wall.
   1. Joint Sealant: Sika Boom; One Component Polyurethane Foam.

D. **JS-04:** Joint-Sealant Application: Interior junction at gypsum walls and concrete floor.
   2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

E. **JS-05:** Joint-Sealant Application: Exterior Personnel Door and Window Frame Perimeters.
   2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

F. **JS-06:** Joint-Sealant Application: Interior Personnel Door and Window Frame Perimeters.
   2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

G. **JS-07:** Joint-Sealant Application: Exterior and Interior Coiling Overhead Doors.
   2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

H. **JS-08:** Joint-Sealant Application: Exterior wall utility penetrations.
   2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

I. **JS-09:** Joint-Sealant Application: Interior wall utility penetrations, interior joints between plumbing fixtures and wall & floor surfaces, and interior joints between solid surfacing material and adjacent materials.
   2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

J. **JS-10:** Joint-Sealant Application: Horizontal joint between concrete underpinning at existing footing and concrete slab at Snow Melt Pit; (refer to detail 8/A2.5).

K. **JS-11:** Joint Sealant Application: Vertical settlement cracks on existing retaining wall interior face.
   2. Joint Sealant Color: Manufacturer’s standard color.

END OF SECTION 07 9200

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The Club at Woodbridge
INDOOR ICE RINK
JOINT SEALANTS

TVC Project No.: 18-27905

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SECTION 09 6200 – SKATE RESISTANT RUBBER FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This is a proprietary specification, matching the Owner’s anti-skate flooring material in their Community Center Ice Skating Arena. Substitutions are not permitted.

B. Section includes, loose-laid, rubber-roll floor finish capable of withstanding foot traffic impact from occupants wearing ice skates.

1.3 REFERENCES


F. ASTM F-2170 “Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In-Situ Probes”.


1.4 ACTION SUBMITTALS

A. Product data for roll rubber flooring.

B. Shop Drawings: Include floor roll layout, edge conditions, columns, doorways, enclosing partitions, indoor metal bleacher assembly, and floor finish transitions.

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SKATE RESISTANT RUBBER FLOORING
C. Samples for Initial Selection: Manufacturer’s standard color palette for initial color selection.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification data for Installer.

B. Product warranty.

1.6 MAINTENANCE MATERIAL SUBMITTAL

A. Furnish extra material, from same product run, that matches products installed and are packaged with manufacturer’s protective covering for storage and identified with labels describing contents. Furnish minimum of 5% of material installed, but not less than one full roll.

B. Include on Operation and Maintenance Manual, submitted during Project Close-Out, rubber flooring manufacturer’s recommended cleaning and maintenance documents.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Minimum three (3) years of experience and has completed three (3) projects of similar magnitude within the past three (3) years.

B. Warranties:
   1. Manufacturer’s Warranty: Minimum five (5) year material and workmanship warranty.
   2. Installer Warranty: Minimum two (2) year installation warranty.

C. Mockups: Build a mockup, at the size and location designated on the drawings, to demonstrate aesthetic effects, and to set quality standards for material and execution.
   1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups, unless such deviations are approved in writing.
   2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE AND HANDLING

A. Store rubber material in dry spaces protected from the weather with ambient temperatures maintained within range recommended by the manufacturer.

1.9 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, in spaces to receive rubber flooring during the following periods:
   1. 48 hours before installation.
   2. During installation.
   3. 48 hours after installation.
B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer.

C. Close spaces to foot traffic during, and 48 hours after rubber floor material installation.

D. Install rubber floor material after other finishing operations, including painting, are complete.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-Of-Design: Athletica, North West Rubber Ltd.
   1. Alternate Manufacturers include, but are not limited, to the following:
      a. Flexco, Prime Sports.
      c. Mondo, Ramflex.

   1. Minimum Size: 48 inch (1.2m) wide roll.
   2. Minimum Thickness: 3/8 inch (10mm).
   3. Adhesive installation.

   1. Minimum Size: 48 inch (1.2m) wide roll.
   2. Minimum Thickness: 3/8 inch (10mm).
   3. Loose-Lay installation. The use of any adhesive is prohibited.

D. Drawing Designation SRFT-3: Athletica, Sportfloor, Stamina.
   1. Minimum Size: 48 inch (1.2m) wide roll.
   2. Minimum Thickness: 1/2 inch (12.7mm).
   3. Loose-Lay installation. The use of any adhesive is prohibited.

E. Material: Vulcanized rubber.

F. Flame Spread Index: Less than 25.

G. Smoke Developed Index: Less than 450.

H. Minimum Performance Criteria:
   1. Dimensional Stability: ASTM F2199; less than or equal to 0.15.
   2. Static Load Limit: ASTM F970; less than 0.005 inches at 250psi.
   3. Coefficient of Friction: ASTM D2047; dry > 0.80.
   4. Anti-Fungal: Resistant.
PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for moisture content and other conditions affecting performance of the Work.
   1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that may interfere with rubber flooring installation.

3.2 PREPARATION

A. Prepare substrates according to rubber flooring manufacturer’s written instructions to ensure proper installation.

B. New Concrete Surfaces: The Contractor shall verify to the Owner and Installer a minimum of thirty (30) days prior to the scheduled rubber flooring installation the following substrate conditions. All substrate testing shall be documented and submitted to the Architect and Owner before commencement of the rubber flooring installation
   1. Verify that substrates are dry, free of debris, and that all curing compounds, sealers and hardeners have properly cured.
   2. Moisture Testing: Perform tests recommended by manufacturer, and submit results to manufacturer’s local representative for approval. Forward approvals to Owner and Architect for record.

3.3 INSTALLATION

A. Install rubber flooring according to manufacturer’s written instructions and recommendations.

B. Align flooring seam pattern parallel with walls.

3.4 CLEANING

A. Upon installation completion, and acceptance by Architect and Owner, perform the rubber flooring manufacturer’s written instructions and recommendations.

3.5 PROTECTION

A. Protect the installed surface from damage resulting from subsequent on-site construction activity using protective materials recommended by rubber flooring manufacturer.

B. Touch-Up: Repair any minor damage to eliminate all evidence of repair. Remove and replace rubber flooring which cannot be satisfactorily repaired.

END OF SECTION 09 6200