

SECTION 096466 --- WOOD GYMNASIUM FLOORING**PART 1-GENERAL****1.1 DESCRIPTION**

- A. This document specifies a wood strip athletic floor system consisting, in general, of wood subflooring, maple flooring, vapor retarder, vertical restraints (system specific), sanding, sealers, finishes, game lines, and wall base.
- B. The concrete contractor shall provide a concrete slab, smooth troweled and level to a tolerance of 1/8" (3mm) in a 10'0" (3m) radius, subject to the approval of the wood flooring contractor. LABOR AND MATERIALS NECESSARY TO PUT THE CONCRETE SLAB IN ACCEPTABLE CONDITION (HIGH AREAS GROUND DOWN AND LOW AREAS FILLED WITH APPROVED LEVELING COMPOUNDS) SHALL BE THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR.
 - 1. Concrete slab depression to use with 3/4" (19mm) SAFE™ pads shall be:
 - a. 2 3/4" (70mm) for 25/32" (20mm) thick flooring.
 - b. 3" (76mm) for 33/32" (26mm) thick flooring.
 - 2. Concrete slab depression to use with 7/16" (11mm) SAFE™ shall be:
 - a. 2 1/2" (64mm) for 25/32" (20mm) thick flooring.
 - b. 2 3/4" (70mm) for 33/32" (26mm) thick flooring.
 - 3. Concrete subfloors shall have an adequate vapor retarder beneath and at the perimeter of the slab.
 - 4. No pea gravel, river gravel or slag aggregate shall be allowed in the concrete. The concrete strength range at the time of wood flooring installation shall be between 3,000 PSI and 3,500 PSI.

1.2 QUALITY ASSURANCE

- A. Supplier Qualifications
 - 1. Supplier of wood flooring shall be Horner Flooring Company.
 - 2. Basis of design shall be "Laminated Sleeper" sports floor system as provided by Horner Flooring, www.hornerflooring.com. (800-380-0119).
 - 3. Materials other than those listed must be approved 10 days prior to bid date by written addendum. Materials from non-approved manufacturers will not be accepted.
- B. Installer Qualifications
 - 1. The flooring contractor shall be a Horner Accredited Installation Company with MFMA Accredited Installer(s) on-site for the duration of the wood floor installation; or, a contractor approved by Horner Flooring.
- C. Flooring shall be stored on the premises before installation commences as required for acclimation. Final determination as to acclimation will be made by the flooring contractor.
- D. System fully meets all DIN/EN requirements.

1.3 WORKING CONDITIONS

- A. The floor system shall not be delivered or installed until the concrete slab is properly cured and all masonry, plastering, tile work and overhead mechanical trades are completed and building is permanently enclosed and weathertight.
- B. Permanent heat, light and ventilation shall be installed and operative during and after installation, maintaining a temperature range of 55° F (13° C) to 75° F (24° C) and a relative humidity range that changes no more than 15% from low to high humidity levels.
- C. HVAC System shall be operating in balance at levels and conditions consistent with those during permanent occupancy.

1.4 WARRANTY

- A. Horner Flooring Company hereby warrants the flooring materials to be free from manufacturing defects for a period of one year from the date of substantial completion. This warranty is expressly limited to the flooring materials supplied by Horner. This warranty is in lieu of all other warranties, expressed or implied including but not limited to any warranty of merchantability or fitness for a particular purpose, and of any other obligations on the part of Horner. This warranty does not cover floor damage caused by conditions beyond our control, such as fire, wind, floor surface chemical action, faulty maintenance, improper ventilation, faulty construction of building, Act of God, ordinary wear and tear, excess moisture and excess dryness, separation of concrete slab, settlement of walls, failure of floor if not installed properly, when installed over poured urethane if poured urethane returns to its liquid state, if poured

urethane releases from concrete slab or failure of floor if installed over polyvinyl chloride synthetic flooring. In the event of breach of any warranty, the liability of Horner shall be limited to repairing or replacing material and system components supplied by Horner and proven to be defective in manufacture, and shall not include any other damages, either direct or consequential.

- B. Extended warranties are based on maintenance and yearly/annual cleaning and recoating agreements with certified contractors.

PART 2-PRODUCTS

2.1 MATERIAL

- A. Flooring shall be Horner Maple, 25/32" (20mm) or 33/32" (26mm) thick x 1½" (38mm) or 2¼" (57mm) wide, First, Second and Better, Third and Better or Third Grade, random length continuous tongue and groove and end-matched MFMA Northern Hard Maple, grade marked and stamped as manufactured by Horner Flooring Company.
OPTION: Horner Long Life™ flooring if so specified.
- B. Vapor retarder shall be 6 mil polyethylene.
- C. Laminated Sleepers shall be ¾" x 4" x 8' (19mm x 102mm x 244cm) plywood sleepers padded with 7/16" (11mm) Eco Pads or ¾" (19mm) SAFE™ Pads.
OPTION: Rawl type restraint. Horner sleepers shall be prenotched to accept R-I restraints, or predrilled to accept R-II retaining pins if so specified.
- D. Subfloor shall be 15/32" (12mm) rated sheathing, exposure 1, plywood or 7/16" (11mm) OSB.
- E. Flooring fasteners shall be 1 ¾" (45mm) barbed cleat or 15 gauge (2mm) coated staples.
OPTION: If Horner Long Life™ is specified, use 1 1/2" (51mm) 15 gauge (1.8mm) staples only.
- F. Wall base shall be 3" x 4" (76mm x 102mm) Vent Cove heavy duty molded, vented base with preformed outside corners as supplied by Horner Flooring Company. Specify color: black or brown.
- G. Finish material shall be specified from the latest listing provided by the MFMA, and shall be applied according to finish manufacturer's instructions.
- H. Gameline paint shall be compatible with finish.
- I. Stop blocking, where heavy loads are anticipated, stop blocking shall be installed between pad locations.

PART 3-EXECUTION

3.1 INSPECTION

- A. Inspect concrete slab for proper tolerance and dryness and report any discrepancies to the general contractor for correction.
- B. The concrete slab shall be cleaned of all debris so flooring contractor will have adequate access to work surface.
- C. All overhead work, wet trades shall be complete in floor work area.

3.2 INSTALLATION

- A. Cover concrete with 6 mil polyethylene, sealing and lapping joints a minimum of 4" (102mm).
- B. Subfloor:
 - 1. Install Horner sleepers along short dimension of room (at right angles to the main playing court), butting ends with a ¼" (6mm) space and staggering joints. Provide 1 1/2" (51mm) expansion voids at the perimeter and at all vertical obstructions. Sleepers shall be spaced 16" (406mm) o.c. Attach plywood or OSB to the sleepers, with the long dimension of the sheet good running perpendicular to the maple flooring, using 1 ¼" (32mm) cleated nails with ¼" (6mm) spacing between adjoining sheets.
OPTION: Rawl type restraint. Install R-I restraints over prenotched sleepers or install R-II pins into predrilled sleepers if so specified. Install restraints to a positive pad compression of 1/32" (.8mm).
- C. Install finish flooring parallel with main playing court by power nailing or stapling approximately 12" (305mm) o.c.
 - 2. Provide 1 1/2" (51mm) expansion voids at the perimeter and at all vertical obstructions.

- D. Stop blocking 4"x4" minimum shall be attached to underside of 1st layer of subfloor allowing a maximum of ¼" less than pad thickness where heavy loads are anticipated.
- E. Solid blocking shall be attached to areas under bleachers in the closed position. Solid blocking shall match the thickness of system pad. Solid blocking shall be a minimum of 4" wide and 12" O.C.
- F. Expansion Provisions-Size joints between maple flooring strips to allow for intermediate expansion in accordance with expected humidity changes and conditions in the space.

3.3 FLOOR SANDING

- A. Machine sand with coarse, medium and fine paper to a smooth, even and uniform surface.
- B. Remove sanding dust from entire surface by tack of vacuum.
- C. Refer to MFMA sanding and finishing guide for procedures.

3.4 FINISHING

- A. Inspect entire area of floor to insure that surface is acceptable for finishing, completely free from sanding dust and perfectly clean.
- B. Apply seal and finish per finish manufacturer's instructions.
- C. Buff and clean floor between each coat or as necessary.
- D. Paint game lines as shown on drawings, between seal coats.
- E. Game line paint shall be compatible with finish.

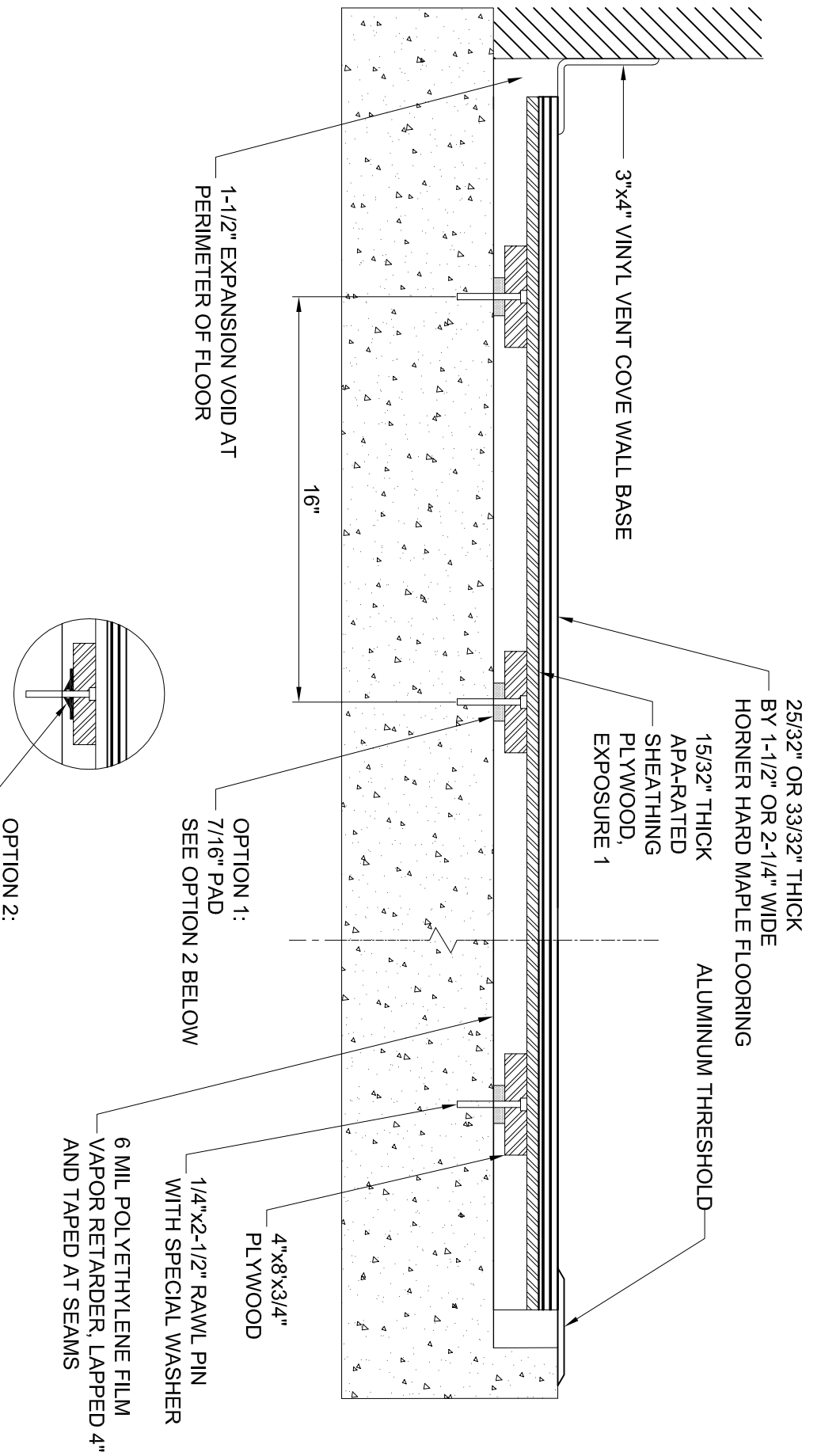
3.5 BASE INSTALLATION

- A. Install Vent Cove base, mitering inside corners and anchoring to walls with base cement or screws and anchors.

3.6 MAINTENANCE

- A. Upon completion of floor installation, the owner, attendants or individuals in charge and responsible for the upkeep of the building are to see that the care and maintenance instructions outlined within the provided Horner Care and Maintenance Manual are followed. Horner flooring and certified dealers may offer extended warranty and maintenance agreements. It is recommended that any extended agreements include maintenance and recoats by the original installing contractor or related/recommended parties. (See maintenance/cleaning and recoating information on Horner Flooring website).

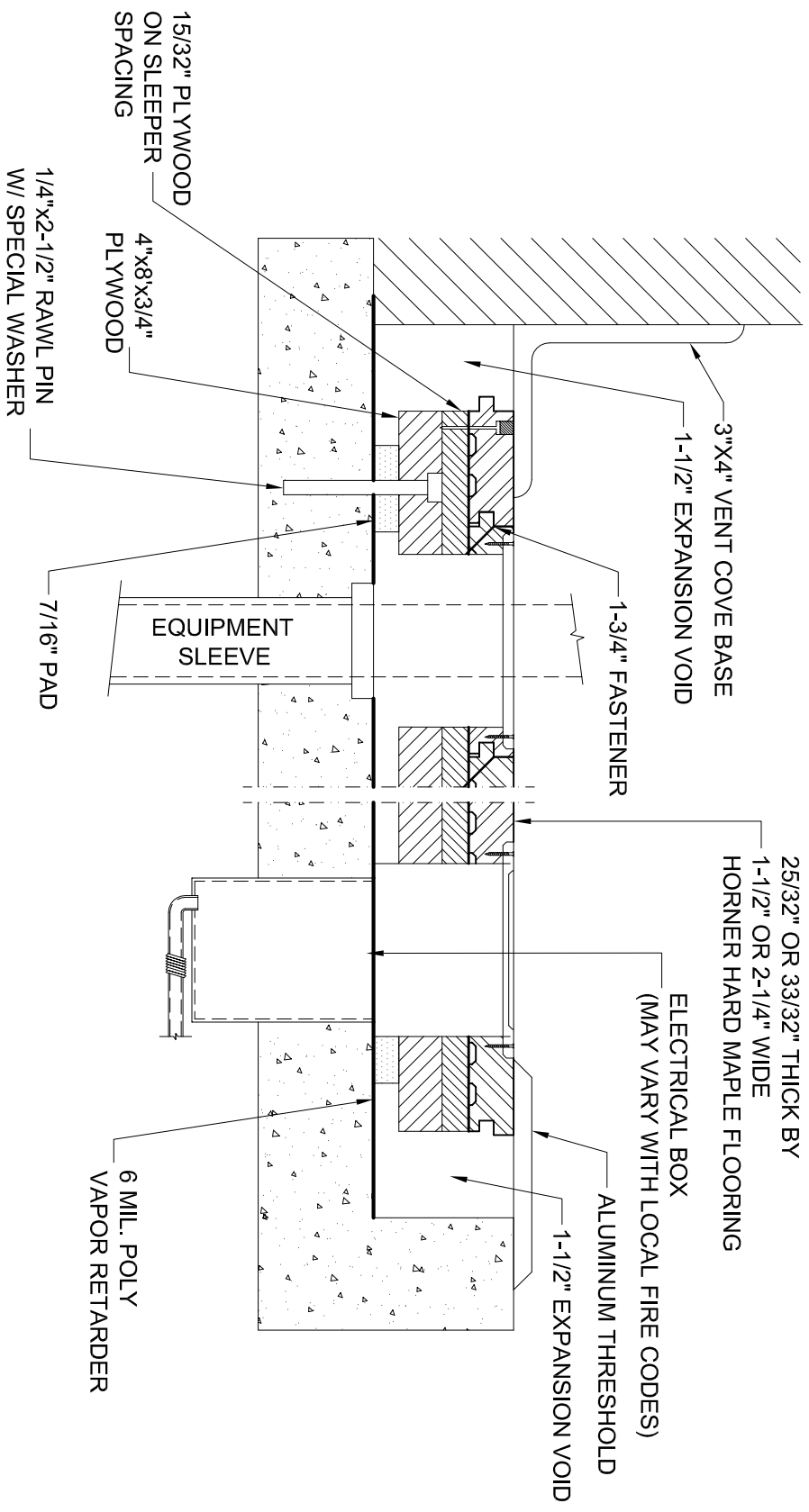
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LAMINATED SLEEPER SYSTEM - SIDE VIEW

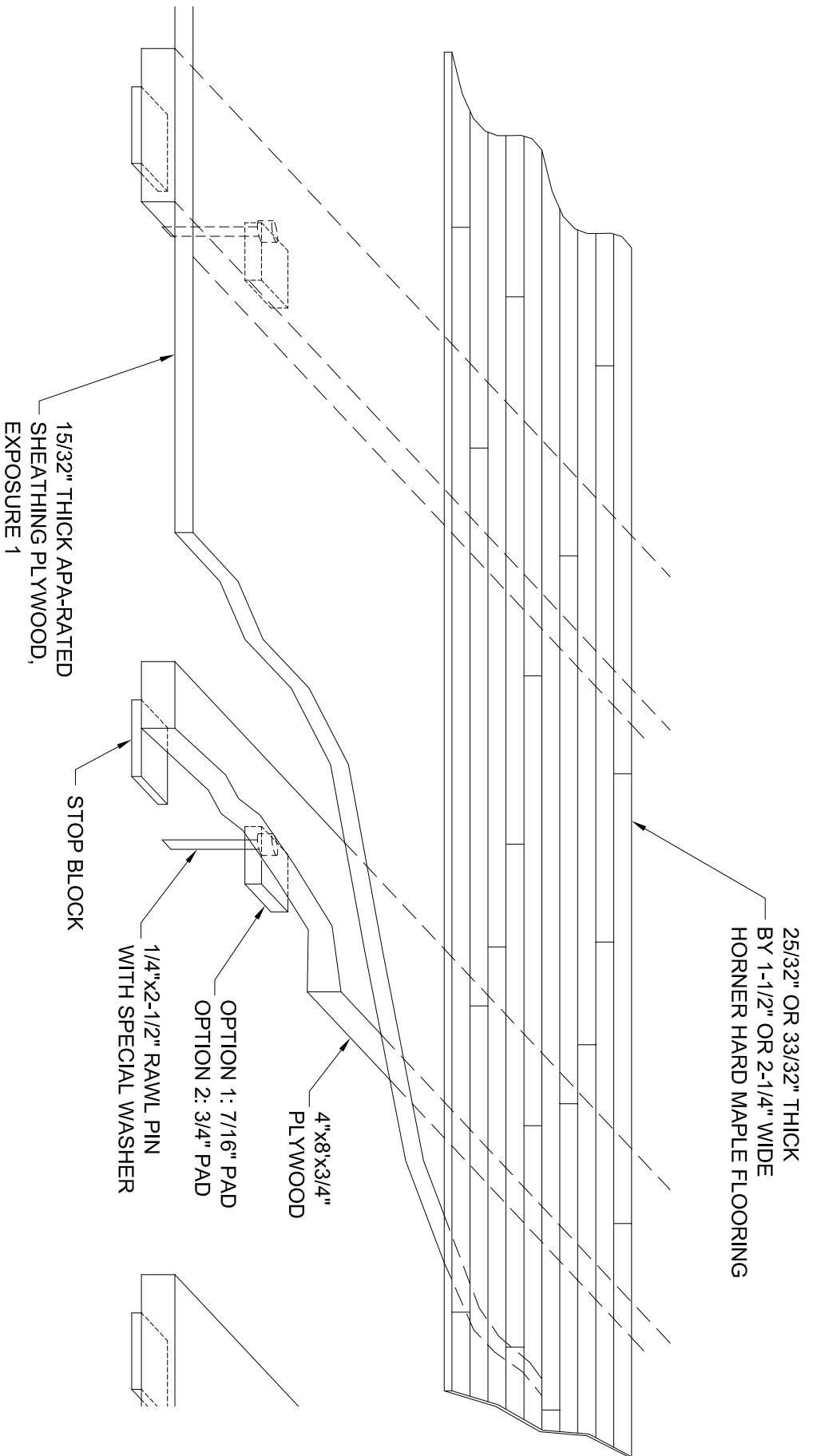
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SLAB DEPRESSION		
FLOORING	25/32" (20mm)	33/32" (26mm)
7/16" PAD (11mm)	2-1/2" (64mm)	2-3/4" (70mm)
3/4" PAD (19mm)	2-13/16" (71mm)	3-1/8" (79mm)



LAMINATED SLEEPER SYSTEM

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