**February 28, 2020**

**PRE-PROPOSAL MEETING SIGN-IN**

**RIVERLAND COMMUNITY COLLEGE, AUSTIN EAST ELECTRICAL INFRASTRUCTURE**

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*Minnesota State is an affirmative action, equal opportunity employer and educator.*
10-1 General and Special Conditions

Sections 1 and 2 govern work of Section 10.

10-2 Work Included

A) Premoulded Membrane: Under concrete floor slabs where wood floors occur over slab on grade.

B) Plastic Membrane: Over slab, under topping, at showers (Rooms C-114, C-115, C-118, C-123, C-128, E-155, E-156); at electrical rooms C-135, C-138 and E-158; at mechanical rooms where specifically indicated on drawings.

Over concrete roof slab at tunnel from boiler plant.

C) Trowelled Mastic Coatings: Earth side of exterior foundation walls enclosing room space and tunnels. (Not required at foundation wall with earth both sides.)

Materials

10-3 Premoulded Membrane

W. R. Meadows "Seal-Tight" premoulded membrane, 7-element construction, 1/8" thick, semi-rigid asphalt core board sealed under heat and pressure or Philip Carey Elastite Asbestoseal. Joints shall be sealed with adhesive recommended by manufacturer, full width of lap.

10-4 Plastic Membrane

Nervastra Seal-Pruf HD. 20 mils or equivalent membrane of Lexsuco, Reflecto Barrier, B. F. Goodrich, Sandell. Adhesive as recommended by membrane manufacturer.

10-5 Mastic Coating

Pitch Base Material: Barrett Plastics P.B. Cement, trowelled on, or similar products of Koppers, Ruberoid or Carey.

10-6 Drain Flashing at Plastic Membrane

6 lb. lead.

Installation and Application

10-7 Premoulded Membrane at Wood Floor Areas

Provide under concrete slab of entire area of wood floors. Carry 3 feet beyond the wood floor areas at doors or other lines where floor does not terminate against a wall.

Apply over hard tamped and level sub-base. Lap all joints 6" and seal the full 6" lap with adhesive. Turn up minimum 3" at walls and 2" into slab to form a large pan. Turned up edges at walls shall be tightly bonded to the wall with adhesive. Finished work to be reasonably level and suitable for pouring concrete.
Overslaking without breaking seal. Install only after roofing is on building, temperature is warm and just prior to pouring slabs.

10-3 General - Coatings and Membranes over Concrete

Apply to clean, dry surfaces, free of loose particles, projections and similar. Remove all such obstructions.

For membranes over concrete slabs, prime surfaces prior to starting membrane work if recommended by manufacturer. Membranes shall be placed just prior to subsequent finish work. Where necessary, as masonry is laid, install "flashing" sheet in masonry with excess material out onto slab area for building-in later.

Apply coatings only after form ties have been removed and patched. Coverage shall be over entire surface, creating a continuous impervious film.

Carry coatings at exterior foundations from 3" below grade to footings and carry out to edge of footings to completely seal wall to footing joints. Finish grade lines must be accurately established prior to coating walls, to prevent dampproofing above grade. Wherever footing may be substantially lower than floor level on opposite side of wall, coating may terminate 24" below the floor line. Where coated walls intersect non-coated walls, run bead in corner and carry coating minimum 3 feet onto non-coated walls.

Provide workmanship in best practice accomplished by skilled mechanics trained in their trade and in strict accordance with manufacturer's instructions. Finished work to be free of damage, blisters, cracks, open joints, pin holes, skips, holidays, thin spots, etc.

10-3 Troweled Mastic Coating

Trowel on as recommended by manufacturer to a coat 1/16" to 1/8" thick.

10-10 Plastic Membrane

Accomplish plastic membrane work by following manufacturer's directions. Butt joints of sheets and cover with 12" strip. Clean free of all residue. It is intended this subcontractor provide complete and waterproof membranes and he shall be responsible to accomplish all work to meet intent. Protect against abrasion or perforations from any source, at all times. At relets and elsewhere necessary, install sealant to manufacturer's directions to insure proper sealing of materials and joints. Membrane shall be approved by architect before placing subsequent work.

At slabs, floors and elsewhere under a finish material or other topping, install just prior to installation of subsequent topping. At showers, test membrane with 1" water to presence of tile subcontractor to insure against leaks. Membrane must have tile subcontractor's acceptance.

At showers and elsewhere that membrane abuts masonry, install a flashing ply in masonry, extending 8" onto floor slab. Build-in flashing ply as masonry progresses.

Flashing ply shall be waterproof with sealed laps at corners and minimum number of joints. Carry flashing plies at least 6" above highest point of floor and at least 2" above any curbs. Carry up curbs at entrances to showers and similar locations.
At slabs, form a "pan" with folded corners. At slabs, butt joints and cover joint with full coating of adhesive and 12" wide strip of plastic membrane. At all horizontal surfaces, roll with 50-100 lb. roller. Use rubber roller at all vertical surfaces.

At tunnel roof coat entire surface with adhesive. Run membrane lengths (i.e. rolls) in direction of tunnel and roll into mastic. Carry membrane down 12" onto wall.

At tunnel provide continuous protective cover (i.e. 40 lb. roof felt) during backfill operations. Use care to prevent membrane from slipping, punctures or other damage.

At floor drains, set lead flashing pan, extending 6" beyond drain body, built into membrane. Make waterproof connection to drain flange, using clamp furnished with drain.