

6. The material should NOT be applied when:
  - a. standing water is present
  - b. rain is expected within eight (8) hours.
  - c. temperature is below 40 degrees F
  - d. temperature is expected to fall below 32 degrees F within 12 hours of application
7. Damp, but not water saturated surfaces may be treated. Dry conditions are referred to facilitate maximum penetration.
8. Solution shall be sprayed onto concrete surfaces using a low pressure, airless, spray apparatus with fifteen (15) PSI maximum nozzle pressure.
9. All spray equipment shall be thoroughly cleaned and free of foreign matter, oil residue and water prior to spraying the silane solution.

#### D. Reinforcing Steel/Anchoring

1. Reinforcing steel shall be deformed steel reinforcing bars conforming to ASTM A61572 Grade 60. Metal shall be clean and free from loose rust, scale or coatings that will reduce bond (epoxy coated).
2. Anchor bolts shall be unfinished grade, "hot dipped" galvanized or zinc plated, conforming to ASTM Designation A307, with a yield strength of FY-36 KSI.
3. Contractor shall provide all spacers, chairs, ties and other devices necessary to properly space, support and fasten reinforcement in place.

#### E. Wood

1. The exterior walls and roof shall be constructed of 2" x 6" wood framing covered with 100% Douglas Fir, five (5) ply 1/2" thick, CC structural grade #1, or 1/2" CDX agency rated, conforming with PS-1-83, plywood sheathing, with 4" x 4" studding.
2. For structural framing (2" to 4" nominal thickness, and 5" and wider), provide the following grade and species:  
  
No. 2 grade and any species that comply with the requirements of the N.F.P.A National Design Specification, for extreme fiber stress in bending (Fb) and modulus of elasticity (E), for single and repetitive members.
3. Sheathing shall be attached to the framing with 2" spiral nails or staples spaced 6 inches apart.
4. Sheathing shall be glued to framing prior to nailing or stapling with plastic resin glue.
5. All nails shall be set flush to the sheathing.
6. If wood siding is needed, it shall be T-111, textured, exterior grade, five eighths inch

(5/8") southern pine plywood with rough sawn face, ship lap joints and five eighths inch (5/8") wide grooves at eight inches (8") on center.

7. T-111 siding shall conform to federal specifications TT-W-571 and American Wood Preservers Association (AWPA) standards and shall bare an American Wood Preservers Bureau (AWPB) quality control mark.
8. Wood shall be applied using galvanized nails only.

#### F. Metal Connectors

1. Contractor shall provide hot-dipped galvanized fasteners for all connectors, plates, anchors, seats, brackets, etc.
2. All exposed metal connectors shall be sealed with a coat of exterior primer, factory formulated to be compatible with the substrate, followed by a finish coat of chemical-curing aliphatic urethane gloss enamel coating over galvanized and ferrous metal connections to prevent salt corrosion.

#### G. Roofing Material/Underlayment

1. Roof underlayment shall be non-perforated, 36 inch or 32 inch, 15 lbs. per square foot asphalt saturated felts, conforming to ASTM Designation D-226-68.
2. The felt shall be attached directly to the wood decking with large flathead, galvanized, roofing nails or staples.
3. Surface to which felt is applied shall be free of dirt and debris before felt is applied.
4. Flashing, where required, shall be galvanized sheet metal or aluminum.

#### H. Roofing Shingles

1. Contractor shall provide three (3) tab asphalt Class "C" ASTM D225 Type III, or three (3) tab fiber glass Class "A" ASTM D3018 Type I.
2. ODOT shall be provided with documentation indicating the manufacturer's specifications and recommended installation procedures.
3. A sample of the proposed roofing material will be submitted to ODOT for approval and color selection.
4. Shingles shall be installed in strict accordance with manufacturer's guidelines.
5. Shingles shall be applied to roof deck with large head galvanized roofing nails or staples. Manufacturer's guidelines will dictate location and number of fasteners to be used in each shingle. This information shall be provided to ODOT prior to installation of the roof.

CALCULATED  
CHECKED

SPECIAL PROVISIONS

LAK-90-4.12

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