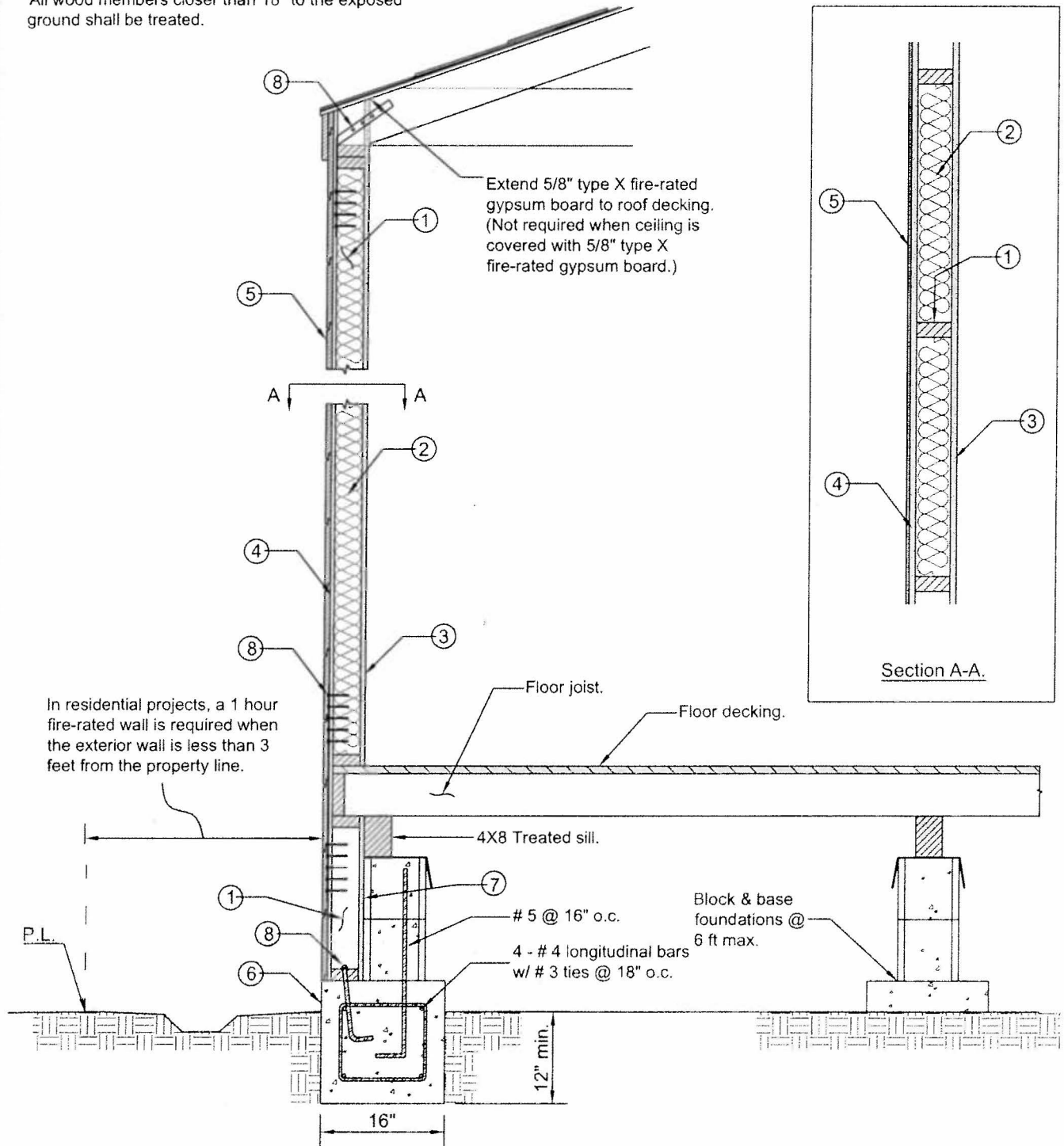


* All wood members closer than 18" to the exposed ground shall be treated.




Extend 5/8" type X fire-rated gypsum board to roof decking. (Not required when ceiling is covered with 5/8" type X fire-rated gypsum board.)

Section A-A.

In residential projects, a 1 hour fire-rated wall is required when the exterior wall is less than 3 feet from the property line.

- ① Wood Studs: Nominal 2" X 4" solid sawn wood studs, 24" o.c. max, with two top plates and a single bottom plate.
- ② Insulation: R13 fiber glass batt insulation.
- ③ Gypsum Wallboard: 5/8" Type X gypsum wallboard 48" wide, oriented vertically and fastened with 1-3/4" long cup-head gypsum nails, spaced 7" on center at board edges and in field areas, or 1-1/2" Type S drywall screws, spaced 8" o.c. at board edges and in field areas of boards. The joints and nail heads require treatment consisting of joint compound followed by joint tape and a second layer of joint compound.
- ④ Gypsum Sheathing: 1/2" Type X or 5/8" Type X gypsum sheathing fastened with 1-3/4" long roofing nails spaced 7" o.c. in the field and 4" o.c. along the perimeter. Sheathing edge joints shall be staggered from those on opposite sides of the wall.
- ⑤ Fiber-Cement Exterior Siding: 5/16" thick Fiber-Cement lap siding, applied horizontally with a 1-1/4" headlap and fastened with a single 6d corrosion resistant common nail driven through the lapped planks at each stud location.
- ⑥ Grade Beam: Concrete shall have a minimum compressive strength of 2500 psi at 28 days.
- ⑦ Fire Rated Exterior Cement Board: 1/2" or 5/8" to match gypsum sheathing in (4). Fasten with 6d nails spaced 6" o.c. along the perimeter & 12" o.c. in the field.
- ⑧ Install strapping to provide continuous ties from the roof to the foundation system as per Appendix L of the City of Houston Residential Code.

CITY OF HOUSTON Department of Public Works and Engineering	
1 Hour Fire-Rated Exterior Wall for Block & Base Foundations (Sub-floor Knee Wall)	
Approved by:	 Building Official
Revision Date: 11/7/2013	Dwg No: 12-06-R (Revision 1) 1 of 1