Wisconsin Department of Safety and Professional Services Division of Industry Services 1400 East Washington Avenue PO Box 7302 Madison WI 53707-7302



Phone: 608-266-2112 Web: http://dsps.wi.gov Email: dsps@wisconsin.gov

Scott Walker, Governor Laura Gutierrez, Secretary

Inspection Checklist For Typical One- and Two-Family Dwellings CONSTRUCTION 320.09 (09) Permit card posted Zoning 321.33 Proper sethacks FOOTING INSPECTION FOOTINGS 321.16 48" Frost depth including at basement walkouts 321.16 232.133 Proper planned still elevation for zoning and drainage 321.16 2 Soil - no organics, uncompact fill, water, frost (shall be insulated if cold weather) and verify frost depth likely at site 5.12 321.17 Groundwater/clay: tiles with bleeders 8" o.c. (also requires 4" base course under slab and damp roofing of block foundations) 321.15 Forms or adequate soil stiffness (normally will form footings if tiles or basement floor base course required) Form or trench sizes: - width: 8" plus foundation wall width - depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls 320.10 & ACI 318 Rebar per plan or as needed to bridge problem spots 321.125 Slit fence, straw bales, or non-channel matring to protect downslope 321.125 Slit fence, straw bales, or non-channel matring to protect downslope Slit fence, straw bales, or non-channel matring to protect downslope schiment floscharge; no tracking onto street; off-sire individual social stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from seediment discharge; no tracking onto street; off-sire individual social stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from seediment discharge; no tracking onto street; off-sire individual social stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from seediment discharge; no tracking onto street; off-sire individual social stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from seediment discharge; no tracking onto street; off-sire individual social stockpiles protected by groper erosion control methods; waterbo		
Zoning 321.33 Proper setbacks	Inspection Che	ecklist For Typical One- and Two-Family Dwellings
Zoning 321.33 Proper setbacks		CONSTRUCTION
Proper setbacks	320.09 (09)	
FOOTING INSPECTION FOOTINGS 321.16	` ′	
INSPECTION		
321.16 48" Frost depth including at basement walkouts		
321.16 48" Frost depth including at basement walkouts 321.12 & 321.33 Proper planned sill elevation for zoning and drainage 321.14 (2) Soil - no organics, uncompact fill, water, frost 321.16 & ACI 318 (shall be insulated if cold weather) and verify frost depth likely at site 5.12 Groundwater/clay: tiles with bleeders 8' o.c. (also requires 4" base course under slab and damp roofing of block foundations) 321.15 Forms or adequate soil stiffness (normally will form footings if tiles or basement floor base course required) 321.15 (2) Form or trench sizes: - width: 8" plus foundation wall width - depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls 320.10 & ACI 318 15.9.2 321.02 (3)(e) Protected from freezing during cure 321.125 Silf fence, straw bales, or non-channel matting to protect downslope perimeter: 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper crosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - 6' (8 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.18 (3) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) I/2" maximum mortar joint		
321.12 & 321.33 Proper planned sill elevation for zoning and drainage 321.14 (2) Soil – no organics, uncompact fill, water, frost (shall be insulated if cold weather) and verify frost depth likely at site 5.12 321.17 Groundwater/clay: tiles with bleeders 8' o.c. (also requires 4" base course under slab and damp roofing of block foundations) 321.15 Forms or adequate soil stiffness (normally will form footings if tiles or basement floor base course required) 321.15 (2) Form or trench sizes: - width: 8" plus foundation wall width - depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls Rebar per plan or as needed to bridge problem spots 320.10 & ACI 318 15.9.2 321.02 (3)(e) Protected from freezing during cure Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF; 8" block - (6 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(12) 1/2" maximum mortar joint 321.18 (3) Anchor bot placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
321.14 (2) 321.16 & ACI 318 321.17 (shall be insulated if cold weather) and verify frost depth likely at site 5.12 321.17 Groundwater/clay: tiles with bleeders 8' o.c. (also requires 4" base course under slab and damp roofing of block foundations) 321.15 Forms or adequate soil stiffness (normally will form footings if tiles or basement floor base course required) 321.15 (2) Form or trench sizes: - width: 8" plus foundation wall width - depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls 320.10 & ACI 318 15.9.2 321.02 (3)(e) Protected from freezing during cure 321.125 Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in reforcement (short steps okay with plain concrete) 321.18 (3) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) Anchor both placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
Salar Sala		
Silt Services Silt Service		
321.15 Forms or adequate soil stiffness (normally will form footings if tiles or basement floor base course required) 321.15 (2) Form or trench sizes: - width: 8" plus foundation wall width - depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls 320.10 & ACI 318 Rebar per plan or as needed to bridge problem spots 321.02 (3)(e) Protected from freezing during cure 321.125 Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 5' (9 courses) in granular; 10" block - 6' (8 courses) in nongranular; 10" block - 6' (8 courses) in nongranular;		
321.15 Forms or adequate soil stiffness (normally will form footings if tiles or basement floor base course required) 321.15 (2) Form or trench sizes:	321.17	
Form or trench sizes: - width: 8" plus foundation wall width - depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls Sau.10 & ACI 318 15.9.2	321.15	Forms or adequate soil stiffness (normally will form footings if tiles or
- width: 8" plus foundation wall width - depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls Rebar per plan or as needed to bridge problem spots 15.9.2 321.02 (3)(e) Protected from freezing during cure Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF; 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 722.18 (3)(b) Rebar or other reinforcement per plan 723.1.26(12) 729 M or S mortar 721.26(12) 729 M or S mortar 721.27 maximum mortar joint 720 Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	321 15 (2)	1 /
- depth: 8" except fireplace and chimney footings to be 12" - columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls 320.10 & ACI 318 15.9.2 321.02 (3)(e) Protected from freezing during cure 321.125 Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	321.13 (2)	
- columns: 12" x 24" x 24" (can include slab thickness) - footings for basement center bearing walls 320.10 & ACI 318 15.9.2 321.02 (3)(e) Protected from freezing during cure Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
Footings for basement center bearing walls		
Rebar per plan or as needed to bridge problem spots		
15.9.2 321.02 (3)(e) 321.02 (3)(e) 321.125 Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular; 10" block - 6' (8 courses) in ongranular; 6' (9 courses) in granular; 10" block - 10" (10" accordete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	320.10 & ACI 318	
Silt fence, straw bales, or non-channel matting to protect downslope perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosino control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	15.9.2	
perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION	321.02 (3)(e)	Protected from freezing during cure
drives (50 ft. length or to the foundation); soil stockpiles protected by proper erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION	321.125	Silt fence, straw bales, or non-channel matting to protect downslope
erosion control methods; waterbodies and drainage ways protected from sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		perimeter; 12" thick (3" to 6" diam. clean stone) tracking pad on all access
sediment discharge; no tracking onto street; off-site inlet protection; recheck as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
check as needed for repair and maintenance on future inspections. FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint 321.18 (3) Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
FOUNDATION INSPECTION 321.15 (2)(a) Footing has minimum 4" each side of foundation wall and 8" minimum depth Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
Footing has minimum 4" each side of foundation wall and 8" minimum depth 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		check as needed for repair and maintenance on future inspections.
Footing has minimum 4" each side of foundation wall and 8" minimum depth 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
depth 321.18 Proper foundation thickness, pilaster spacing, and reinforcement per code tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
tables 321.18 (3) Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	321.15 (2)(a)	depth
Maximum fill height for unreinforced HCB supporting WF: 8" block - (6 courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	321.18	Proper foundation thickness, pilaster spacing, and reinforcement per code
courses) in nongranular; 5' (8 courses) in granular; 10" block - 6' (8 courses) in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
in nongranular; 6' (9 courses) in granular 321.15 (2)(c) Stepped foundation lintels or reinforcement (short steps okay with plain concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint 321.18 (3) Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	321.18 (3)	
321.15 (2)(c)Stepped foundation lintels or reinforcement (short steps okay with plain concrete)321.18 (3)(b)Rebar or other reinforcement per plan321.26(3)Type M or S mortar321.26(12)1/2" maximum mortar joint321.18 (3)Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
concrete) 321.18 (3)(b) Rebar or other reinforcement per plan 321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint 321.18 (3) Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint 321.18 (3) Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	321.15 (2)(c)	
321.26(3) Type M or S mortar 321.26(12) 1/2" maximum mortar joint 321.18 (3) Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB	321.18 (3)(b)	Rebar or other reinforcement per plan
321.26(12) 1/2" maximum mortar joint 321.18 (3) Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
321.18 (3) Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for HCB		
		Anchor bolt placement: minimum 6' o.c. for concrete and 2 1/2' o.c. for
	321.26(9)	Beam to bear on: 8" height solid of solid concrete (or steel plate)

321.17 (3)(d)		Required tiles: gravel bed of 2", cover of 12"
321.18 (3)		Block damp proofed in clay soil
322.32 (6)		Foundation insulation per energy worksheet including frost wall under
		basement walkouts
321.07 (2) &		1:1500 crawl space venting and 14" x 24" access
322.34(3)(a)		
321.02 (3)		Protected from freezing during cure
321.26 (1)		
321.18 (1)(c) & (d)		Walls braced or floor system in prior to backfill
321.16 (1)(c) & (d)		Proper elevation for frost depth, zoning, drainage, and protection of wood
321.10, 321.12,		from decay
321.10		nom decay
F!		- See Heating Checklist
Fireplace		- See Heating Checkinst
3 21.29(3)		
BASEMENT F	LOOR INSPEC	TION
321.17 (3)		Bleeders 8' o.c. with tar paper over interior joints
321.17, 321.20 (2)(3)		4" clean base course if clay soil or tiles required
382.36 (8)(a)2.		Storm crock lip to be 1" above floor
321.20		Minimum 3" concrete floor thickness
321.203 (1)(2)		Minimum 4" garage floors on 4" base course, Floor slopes to drain toward
521.205 (1)(2)		overhead door or to an interior floor drain that complies with SPS 382
321.16		Ground to be free of frost
321.10		Ground to be free of frost
Permanent	Permanent Wood	American Forest & Paper Association
	Foundation Design	American Wood Council
Wood	Specification Specification	American wood Council
Foundation	Manual	ANSI/AF&PA PWF-2007
(PWF)	2007 Edition	THOUTH WITH WI 2007
Excavation	2007 Edition	
Inspection	D D	Determine the control of the Mating Decision Decision
3.2	Design Properties of	Determine design properties of soil. Good to Medium Drainage, Poor
25 412	Soil	Drainage, Poor to Unsatisfactory
2.5 4.1.2	Aggregate for	Washed gravel, free of organics 4in. clear granular (3/16" - 3/4")
	Footings and Fill	Crushed Stone, washed with no more than 10% fines (material that passes a
		3.16 in. sieve) Max size ¾ inch
4.1.4	9	Sand, coarse min 1/16 in. free of organics, clayey or silty soils
4.1.4	Sump	Provide sump in soils classified as GW, GP, SW, SP, or GM Sump shall
		extend 24 in. below the top of granular drainage layer.
5.5.2	Composite Footings	Per design specifications prescribed in document
		Granular footing width 2 x footing plate width, and thickness 3/4 x footing
		plate width (2 x 8 or 2 x 10 typical [for 7' backfill]. If interior bearing wall,
		then same rules apply. [2" x 6" minimum footing plate])
5.5.1.1		Footing plate at least at frost depth; or if Group 1 soil or positively drained
		then bottom of granular fill
5.5.2 5.5.3		Column footings as for conventional construction or engineered wood and
		gravel, per design calculations prescribed in document
5.4.5.5.1	Anchorage of	If concrete footer used, place on 4" granular that is positively drained or
	Foundation Wall	provide bleeders at 6' O.C. For basements: anchored to basement floor
	and Footing	slab by spikes and designed per Chap. 11 NDS.
		For crawl spaces: anchored to concrete pad on each side by spikes and
		designed per Chap 11 NDS
	1	and the company of th

1.3 2.3.3		All wood within 8" of grade treated to "FDN" standards and so stamped in
1.5 2.5.5		accordance with AWPA U1. Treated field cuts in accordance with AWPA
		M4.
2.4.1 321.10 (5)		Fasteners and connectors used in preservative treated wood shall be Type
2 321.10 (3)		304 or 316 stainless steel, or hot dipped galvanized zinc coated steel
		fasteners where excepted.
5.5 5.5.2.1		Framing connections properly designed. (Critical)
5.5		Properly sized footing plate per design calculation set in the standard (2 x 8
0.0		or 2 x 10 for 7" backfill and 2 x 8 studs)
5.2.3 5.4.4	Design of Lateral	Footing plate secured to wall plate (10d 12" O.C.) Design in accordance
	Connections	with the NDS
5.5		Provide support frame under stepped footing
5.4.1	Design of Studs	Properly sized study Per design calculations in the standard (2" x 8" usually
		for 7" backfill)
5.4.3		Joints in footing plate and top plate staggered at least one stud space form
		joints in the corresponding plate
5.5.3		Adequate bearing stress $(1^{1/2}" - 2")$ bottom of studs against floor slab
5.4.5.5		Studs secured to plates: Basement Wall anchorage to resist wind uplift (2 –
		16d at bottom plate; 4 – 20d or U framing anchor at top plate)
5.2.3 5.4.3		Top plates secured together (10d face nailed 2" o.c.)
5.2.3 5.4.3		Joists secured to top plate (common joists with U framing anchor; header
3.1.3		joist with 8d 8" o.c.; end joist with 8d 4" o.c.)
5.4		On end walls, provide full depth joist blocking (24" o.c. for 7' backfill)
		between top plate and parallel joist (secured with anchor or 8d 4" o.c. to top
		plate, 9 - 6d to floor sheathing)
5.4.2		Properly sized plywood sheathing (19/32" 40/20 for 12" o.c., 23/32" 48/24
J.T.2		for 16" o.c. and 7' backfill)
5.5.2		Properly secured plywood per spec. (8d 6" o.c. on edges, 12" o.c. 23/32"
3.3.2		48/24 for 16" o.c. in field)
5.2.3 5.4.3		Reinforce top plate with additional bolted top plates if stairwell opening is
3.2.3 3.4.3		adjacent to foundation wall (4 additional plates for 10' opening)
4.1.7		If unequal backfill, provide shear strength (Between 2' and 6' differential,
7.1.7		provide additional sheathing nailing of all walls and block and possibly
		double sheath end walls to act as shear walls. Also provide interior shear
		wall(s) if house is longer than 24')
2.6 4.1.5		Caulk plywood joints
2.7 2.8 4.1.3		Six mil poly over below-grade foundation wall down to footing plate. Joints
4.1.6 4.1.5		lapped 6" and caulked. Top edge caulked to wall and protected above grade
4.1.0 4.1.3		with wood or similar material
4.1.7		Granular fill for 1/2 excavation height
4.1./		Protect granular fill with proper erosion control BMPs
4 2 1		
4.2.1		Insulation of exterior walls per UDC SPS 322
4.2.2		Vapor Barrier – with Vented Air Space: b/t insulation and plywood
		foundation wall, barrier shall be installed from the upper plate and extend
100		down to the bottom plate
4.2.3		Vapor Barrier – with No Vented Air Space: barrier shall be installed from
		the upper plate to approx. one foot below outside ground surface
321.07		Crawl Space Access per 321.07
4.2.2		Crawl Space Ventilation: per 322.34
	1	Sump Requirements
4.1.4		Sump Requirements

~ .	
General	Suggested order of inspection: Scan exterior layout for offset walls,
	overhangs, wings and porches. Inspect in general order of exterior garage,
	upstairs, downstairs, basement. Follow load transfer down to earth including
	linear loads from bearing walls and any masonry and point loads from
	header ends, beam ends, and columns. Check for adequate fasteners
	especially for foam sheathed homes. For metal anchors, all holes generally
D C.	filled with special connector nails (not roofing nails).
Roofs	C:1(111.):f:.1:
321.28 (7)(d)	Cricket (saddle) if chimney over 30" wide
321.27 (9)	Roof sheathing
	Properly sized: minimum thickness 5/8" for solid sheathing on rafter
	spacing of 24" or less, 3/4" minimum thickness for spaced sheathing
321.08 (2)	Tenant separation in attic
321.08 (2)	Roof openings headered similar to floor openings (around skylights,
321.27 (1)	chimneys, etc.)
221 02 (1)(4)	
321.02 (1)(d)	Roof member to top plate: 2-16d or 3-8d
Rafters	2 x sawn members
Karters	2 A SUWII IIIOIIIOCIS
321.27 (4)(b)	Ridge board to be 2 x if rafter pairs offset; ridge board shall have a depth at
321.27 (4)(0)	least equal to the length of the cut end of the rafter abutting it
321.27 (4)(a)	Collar ties every third pair in upper one third
321.27 (4)(a)	Contai des every dinta pair in apper one dinta
321.27 (6)	Hip rafters 2" deeper than commons
	Interior end of lower intersecting ridge board supported
321.27 (6)(a)	Valley rafters doubled and minimum 2" deeper than commons
321.28 (2)	Large cathedral ceilings and 1 1/2-story homes with properly sized ridge
221.28 (2)	beam; or cantilevered wall ties; or rigid ridge connection (batts or gussets)
	and wall ties, or other means. Adequate hangers or bearing of rafters on
	ridge beam.
321.27 (8)(b)	Notches maximum 1/6 of depth and not in mid-1/3 span
	Notches in end maximum 1/4 depth of rafter
	Holes in center of rafter and maximum 1/3 depth of rafter
321.22 (4)(b)	Minimum bearing of 1 1/2" on wood, 3" on masonry or anchor clips (ledger
	boards for shed roofs well anchored)
321.27 (4)(e)	Gable end ladders anchored to interior rafter if overhang more than about 1'
Rafters	Per Mfr.
Wood I Member	
Rafters (TJIs, etal.)	
General	
	Properly sized
	No cutting of flanges or other damage
	Proper cutting of web - watch holes by bearing points
Ridge	
	Must be supported by ledger board or ridge beam, not ridge board and collar
	ties
	Bottom flange bearing condition
	- blocking or X-bracing between I members
	- beveled top edge of ridge beam
	- pairs of members gusseted with 3/4" plywood or lapped with
	filler block between members
	Framed into ridge beam or ledger condition
	- proper hangers - may need web stiffeners
-	- strap together I members across ridge if more than 7/12 slope
Eaves	

	II
	Uncut bottom flange must bear on beveled top plate (or hanger if < 6/12 slope)
	Cut bottom joist flange must bear fully on top plate and have web stiffener(s) or cripples
	Blocking or X-bracing between I members
	Refer to manufacturer's literature for other eave details
Ladders	
	Outriggers notched to top chord
321.27 (8)	Roof trusses
	- proper factory fabrication per plans
	- no modifications or damage
	- Bearing
	- end bearing points under scarf cut, factory blocking or
	cantilever strut
	- any interior bearing points to be at panel points
	- adequate bearing width for design (typical 3 1/2" for dwellings) (need extended seat or "double shear" hangers)
	- Girder trusses
	- laminated girder trusses properly nailed together (typical
	staggered o.c. spacing: 10" Top Chord, 3" Bottom Chord, 4" webs)
	- proper girder truss hangers for common trusses
	- adequate end columns or multiple studs for girder trusses
	- Permanent bracing per plans or markings
	- Location
	- TC - only if no rigid sheathing
	- BC - 10' o.c. only if no rigid ceiling such as drywall
	- webs - typically for webs over 8' long or if intersecting
	interior bearing point
	- cantilever struts at mid-point
	- TC of bottom portion of piggyback type truss
	- Method of lateral bracing
	- near panel points on TC and BC
	- minimum 1" x 4" continuous or lapped for one truss bay
	- anchored into solid (not frame) end walls or diagonally
	braced in plane of brace (up or out at end walls)
	- Gable ends fully supported along full length unless trussed
Ceilings	
321.06	Ceiling height, at least 7 feet, habitable rooms may be less than 7 ft. if at least 50% of the room's floor area has a ceiling height of at least 7 feet. Beams and girders shall not project more than 8 inches below the required ceiling height.
321.07 (1)	14" x 24" scuttle opening for attic access
321.27 (2)	Properly sized ceiling joists
321.27(5)	Joist to rafter: 3-16d
	Joist to plate: 2-16d or 3-8d
	or in accordance with the floor joist requirements under s. SPS 321.22(4)(a)1.d.
Frame Walls	('/\")
321.25 (2)	Top plate
	- doubled or bearing members above studs (includes basement
	center walls)

	- lower top plate broken over stud
	- corners and tees tied by laps or straps
	- corners and tees tied by taps of straps
	Proper stud sizing and spacing (2 x 6 16" o.c. or 2 x 4 12" o.c.)
+	Proper stud sizing and spacing (2 x 0 10 ° 0.c. of 2 x 4 12 ° 0.c.)
321.25 (8)	Wall Bracing
321.25 (8)	Wall brace plans meet code requirements
321.23 (0)	Redesign / reconfigure wall bracing detail on plans as needed to satisfy code
	requirements
(8)(b)	Wall bracing methods match those on plans
(8)(b)	Proper products used for wall bracing
	Nailing patterns as per code
(8)(b)	UT T
(8)(c)	Brace panels installed to proper lengths
(2)(2) (4)	Headone whom load bearing
(3)(a), (b)	Headers where load bearing
	properly sized
	- Headers > 3' but < 6' in length shall be directly supported on each end by
	the single common stud and 1 shoulder stud
	- 3 feet or less, supported by single 2 x 4 common stud and a shoulder stud;
	or single common stud with a framing anchor attached
	- Headers greater than 6' in length shall be supported on each end by the
	single 2 x 4 common stud and 2 shoulder studs
321.18(1)(c)3.	Bottom plate anchored in garage and whole foundation
321.10 (2)	
Treated Wood	
Required	A11
(a)	All wood resting directly upon or embedded in earth
(1)	T. '4. '4.' 10.' 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
(c)	Joists within 18 inches above exterior grade unless protected with a moisture
	barrier
(1)	
(d)	Girders spanning directly over and within 12 inches of earth
(e)	Sills and rim joists resting on concrete or masonry and also below grade or
	within 8 inches above final exterior grade
(f)	Siding and sheathing in contact with concrete, masonry, or earth and within
	6 inches above final exterior grade
(g)	Ends of wood structural members and their shims resting on or supported in
	masonry or concrete walls and having clearances of less than ½ inch on the
	top, sides, and ends
(h)	Bottom plates or sole plates of walls that rest on concrete or masonry and
	that are below exterior grade or less than 8 inches above final exterior grade
(i)	Columns in direct contact with concrete or masonry unless supported by a
	structural pedestal or plinth block at least one inch above the floor
(5)	Proper fasteners compatible with treated lumber
(*)	Troper rustoners computation with trouted fullion
321.25 (4)	Reinforce stud if more than 1/3 depth bored or cut out
341.43 (4)	Remotee stud if more than 1/3 depth bored of cut but

321.085 (1)(2)	Fire blocking at soffits, dropped ceilings, openings around wires, cables,
	vents, pipes, ducts, chimneys, etc., concealed spaces, connections between
	concealed vertical or horizontal spaces
321.08 (1)	Fire Separation per code specifications
(a)	Attached garages
	3/4 hour fire-resistive construction or shall be:
	- One layer of 5/8 inch Type X gypsum drywall on the garage side of the
	separation wall or ceiling
	- One layer ½ inch gypsum drywall on each side of the separation wall or
	ceiling
	- Two layers of ½ inch gypsum drywall shall be used on the garage side of separation wall or ceiling
	- Drywall joints taped and sealed
	- Gap between joints no greater than 1/20 inch, joints backed by solid
	wood or another layer of drywall
(b)	Structural elements exposed in an attached garage shall be protected as per
	321.08 (a)
(c)	Doors: minimum fire resistant rating of 20 min.
(2)	Dwelling Unit Separation per code specifications
(a)	Dwelling units separated from each other: attics, basements, garages,
	vestibules and corridors
(b)	Attic Separation: complete separation extended to underside of the roof
(d)	deck,
	Walls: At least one layer 5/8 inch Type X gypsum wallboard or equiv.
(c)	Or two layers of ½ inch gypsum wallboard or equiv.
(e)	Doors: Minimum 20 minute fire rating
(f)	Floors and Ceiling: 5/8 inch Type X gypsum wallboard with joints in compliance with sub. (1) (a)2.
	Building Design - recheck architectural plan review, plus:
	The state of the s
321.04(2)	Stairs
	- 36 inches minimum width
	- Handrails and trim may project max. 4.5 inches into width area at each side
	- 6'4" headroom measured from the stair's nosing to the ceiling, soffit or any
	overhead obstruction
	- 8" riser, 9" tread
	- winders in series - minimum 7" tread 12 inches in from pivot (individual
	winder - equal to tread depth of the rectangular steps 12 inches in from
	pivot)
	Handrail: located at least 30 inches, but no more than 38 inches above
(2)	tread nosing
(3)	Handrails: required on stair flights with more than 3 risers. At least one
	handrail provided for full length of stair flight. Handrails: symmetrical about the vertical centerline to allow for equal
	wraparound of thumb and finger
	Round or truncated round handrail: max. whole diameter of 2 inches
	Rectangular handrails: max perimeter of 61/4 inches with a max. cross
	sectional area of 27/8 inches.
(4) (a)	Landings: Intermediate landing required for any stairway with a height of
	12 feet or more
(b)	Landing: Provide a level landing at the top and base of every set of stairs.
	Landing as wide as stairs and measure at least 3 feet in direction of travel.

	Doors at landings: Level landing provided on each side of any door located
	at the top or base of stairs
	Exterior landing: Landing, platform or sidewalk located max 8 inches
	below the interior floor elevation. Minimum 36 inch length to in the
	direction of travel out of the building.
Brick Veneer	
Walls	
321.26(7)(a) 1.	Brick ledge or base flashing provided
521.25(7)(a) 11	Maximum 1" corbel over foundation
(a)2.	Provide (1") air space behind brick
4.	Provide weep holes at max. intervals of 2 feet.
T.321.26 - C	Properly sized lintels
	Large stone securely anchored with 1/4" dowels
321.26(8)(a)1 .	Proper flashing installed to drain water away from structural members
Floors	
321.22(8)	Properly sized sheathing, as per Table 321.22-B
Joists	2 x sawn members
321.22(1)	Properly sized
321.10(1)	Untreated crawlspace joists at least 18" to earth
321.22(4)	Bearing - minimum 1 1/2" on wood, 3" on masonry
321.22(4)	Bearing - minimum 1 1/2 on wood, 3 on mason y
321.22 (1) (c)	Where a sill plate is provided for floor joists on solid block top
	course masonry, the sill plate shall be fastened to the foundation.
321.22(1)(d)	Where the masonry wall has an open top course, a sill plate at least
	as wide as the foundation wall shall be fastened to the foundation.
221 22(4)(.)	
321.22(4)(c)	The tail end of a floor joist may not extend past the edge of
	a beam by more than the depth of the floor joist.
321.22 (5)	Notching and boring
321.22 (8)	- notches maximum of 1/6 of depth and not in mid-1/3 span
	- notches in end maximum 1/4 depth of joist
	- holes in center of joist and maximum 1/3 depth
321.22 (6)	Overhangs
	- maximum 2' where common joists are extended over wall and
	carry roof load
	- lookout joists anchored to doubled common joist setback
	2 x overhang
Toigta	Wood I member Joists (TJIs, etal.) Per Mfr.
Joists General:	Properly sized
General.	No cutting of flanges or other damage
	Proper cutting of web - watch holes by bearing points
Rim	1 toper cutting of web - water notes by bearing points
	1 story: 3/4" plywood
	Carrying 2 stories: I-blocking: 2 layers 3/4" plywood; pair of 2 x 4 cripples;
	or continuous 2 x rim

	Provide solid blocking under point column loads
Center bearing	
5	I-blocking or 2 x 4 cripples if bearing wall above
	May need web stiffener
Sistered 2 x	
cantilevered deck	
	Plywood filler between I-member and 2 x joist
	Maximum 4' cantilever
Cantilevered I-	May need to reinforce I-member
member with roof	
load	
Hangers	
	Proper nails and nailing
	Sized for I-member thickness and either full depth or install web stiffener
	Top mounted hangers on I-member header - may also need backer block
221 22 (2)	Filler between doubled I-member header at hangers Parallel Chord Floor Trusses
321.22 (2)	- no modifications or damage
	- no modifications or damage - bottom bearing trusses not flipped top for bottom
	- top bearing trusses bearing within 1" of last web
	- strong back installed 10' o.c. and tied to end walls
	- any interior bearing point at joint
	- no cantilevers unless engineered
	- if top bearing trusses used on frame wall, will need
	fire stopping in wall at bottom chord
321.22 (7)	Floor openings (around stairs, fireplaces, chimneys, plumbing, etc.)
321.22 (1)	- doubled trimmers and headers if header over 4'
	- hangers or bearing for headers over 6'
	- clips, hangers, blocking plates, or bearing for tail joists
	over 8' including joists over basement windows
	gj
Beams	
321.22 (3)	Properly sized
321.22 (5)	No notching or boring
T. 321.22 A-2	Built up wood beams to have double row of 10d nails spaced 18" in each
	row; member joints within 1/4 span points, no adjacent butt joints, maximum
	1/2 of plies jointed at same 1/4 point (especially critical for side-loaded
	beams)
321.02	Proper beam nailers (width equal to beam width)
321.22 (3)(a)	Adjoining ends to be fastened together at columns
321.22 (4)	Bearing length of 3" on 8" thick solid masonry concrete or on metal
321.02	Adequate beam columns
201 15 (1)(1)	D 1 C C
321.15 (1)(b)	Beam columns on footings
221 10 (1)	
321.10 (1)	
The state of the s	
Foundation	
321.18 (1) (a)(b)(c)	Lateral support for tops of masonry wall including knee walls

	- foundation bolts or anchors
	- ledger board and end wall blocking
	- furred interior wall with connection to floor joists
INSULATION	
INSPECTION	
322 20 – 322.39	Envelope (ceiling, walls, floors, foundation) insulated per Subchapter IV
322 20 – 322.39	SPS 322 and ResCheck/RemRate Heat Loss Programs or SPS 322.31
	Prescriptive tables:
	Insulation matches inputs used for heat loss calcs and cross section
	plans
322.20 – 322.39	Check installation and plans of window U values and insulation R
322.20 - 322.37	values for consistency with inputs used in heat loss calculation
322.20 (6)	A permanent certificate from the heat loss calculations shall be posted
322.20 (0)	on or immediately adjacent to the electrical distribution panel. Include
	predominant R-Values and U-Values
322.20 (5)	Thermal Resistance Identification shown on insulation greater than 12
322.20 (3)	inches wide
322.20 (5)	Blown attic insulation: ID tag per 300ft ² tag min 1 in height Text facing
322.20 (3)	attic access
322.20 (4)	Manufacturer's installation instructions available at job site
322.20 (4) 322.37 Joint and	- behind studs at wall corners and intersections
Penetration Sealing	- benniu studs at wan corners and intersections
322.37 (3)	- attic knee walls
322.37 (3)	- gable ends of cathedral ceilings
322.37 (3)	- bay window seats and roof/ceilings
322.37 (3)	- skylight wells
	, 0
322.37 (3)	Recessed lighting fixtures
322.37 (3)	- between window/door jambs and framing
322.37 (3)	Between wall assemblies, sill plates and foundation
322.37 (3)	Penetrations of utility services through walls, floor and roof assemblies, top
222.25 (2)	and bottom roof plates
322.37 (3)	Attic and crawl space panels
322.37 (4)	Recessed lights
322.37	Fan housings
322.34	- spaces over unheated areas such as garages and crawlspaces
322.32(7)	- second floor box sill
322.32 (8)	Overhang Joist Spaces
322.32(9)	- 2nd story walls adjacent to attics
322.30 (4)	- house/garage wall (including insulating sheathing)
	- window glazing
322.21	- support provided for ceiling insulation where not dry walled (stairwells,
	chases, etc.)
322.42(1)	All heating (supply and return) ducts exposed to unheated spaces insulated
	to R-8 including in exterior walls
382.40(8)(a)	Water piping protected from freezing by insulation in exterior walls
322.38(1)	Continuous vapor barrier on warm side of all insulation
	- seams lapped at least 6 inches or batt flanges stapled to stud/joist faces
	- tightly cut around penetrations
	- interior soffits properly handled
	- vapor barrier paint also okay
322.37 (3) (4)	Top plate penetrations sealed
321.37 (5)	Exhaust fans terminate outside dwelling

		T
322.39(1)		Attic venting: one side 1:150, high/low 1:300; insulated roof vents = 1/3 square foot, air chutes in or raised truss heel
322.37(3)		Sill sealer on foundation
322.34		Vapor retarder properly covering soil in Crawl Spaces
		Insulated Crawl Space per Table 322.31-1
323.08(2)		Metallic duct for kitchen hoods
Insulation of	Permanent Wood	American Forest & Paper Association
Permanent	Foundation Design	American Wood Council
	Specification	
Wood	Manual	ANSI/AF&PA PWF-2007
Foundation	2007 Edition	
322.31		Insulated per Energy Worksheet or an acceptable software program
322.38(1)(b)		Continuous vapor barrier
Below-Grade per	Permanent Wood	ANSI/AF&PA PWF-2007
PWF Manual	Foundation Design Specification Manual 2007 Edition	
6.10.3.	2007 Edition	- Provide air space between insulation and foundation sheathing or
6.10.2.		- Stop vapor barrier 1' below outside grade and fold against foundation
		sheathing
6.10.4.		Stop insulation 2" above bottom plate
CONSTRUCTIO	ON	
FINAL INSPEC		
Outside	11011	
		Broken sidewalk and curb replaced
Zoning		Broken sidewark and curb repraced
321.12		Contract Constanting
321.125		Grade away from dwelling Final erosion control measures in place or site "stabilized" per code
322.31		Foundation insulation protection
Table 322.31-1		Podudation insulation protection
1 autc 322.31-1		
321.24(2)(c)		Caulking or flashing of penetrations and joints
321.24(2)(0)		Weather resistant wall covering (painted if necessary)
321.24 (4)		weather resistant wan covering (painted if necessary)
321.24(3)(4)		Horizontal plywood siding joints lapped, Z-flashed, or battered per mfr. and
		APA
321.10		Untreated wood clearance to grade
321.27(4)		Proper roof flashing
Various		Code complying decks
323.02 (3)		Bath exhaust terminating outside dwelling
321.04(2)		Code complying steps, riser heights, tread depths
201.06(7)		Driel vancer installed manual:
321.26(7)		Brick veneer installed properly
Inside		
321.09		Smoke detector in each sleeping room,
		outside of each sleeping room within 21 feet of sleeping room door opening
		(at centerline)
		On floor levels without sleeping rooms, one alarm on each level

(2)	Smoke Alarms hardwired per code
321.097	Carbon Monoxide (CO) detector installed on each floor hardwired per code
321.077	Carbon Monoxide (CO) detector installed on each floor hardwired per code
322.37(3)	Minimum 14" x 24" weather-stripped scuttle to each attic
322.37(3)	Minimum 11 N 21 Woulder Supped Southe to each acte
321.08(1)	Garage fire separation in place including door casing, eaves, complying attic
321.00(1)	scuttle, and protection of beams and columns supporting living space above
321.05(3)	Safety glazing in doors and sidelights
321.03(3)	Code complying stairs - risers, tread, handrail, headroom, guardrail
321.04	Code comprying stairs - fisers, aread, nandram, neadroom, guardram
321.03	Code complying bedroom egress windows in basement and second floor if
321.03	no second exit
	no second exit
Basement	
321.22 (3)	Columns secured to beams, providing full beam width bearing,
321.25 (6)	and anchored to floor
321.09	Smoke detector / CO detector
321.097	Carbon Monoxide (CO) detector installed hardwired per code
321.085	Fire stop around all chimneys, vents, ducts, and pipes in ceiling and also
	open stud spaces in split level
322.32 (7)	Box sill insulation
322.34 (2) (1)	Vapor barrier on crawl space floors, organics removed
321.22(5)	Recheck notching and boring of joists
321.22(1)	Recheck floor joist support and header
ROUGH HEATING	
INSPECTION	
323.11(1)	Metal Chimney/Vent
Listing	Metal Chilings, Fore
Listing	
323.11 (2)	Proper roof termination - 3' above roof and 2' above roof within 10' (B vent
323.11 (2)	with listed cap can terminate 1' above a roof with slope less than 8/12)
Listing	with fisted cap can terminate 1 above a roof with slope less than 6/12)
321.08	- Fire stop and clearance to combustibles per label,
321.08 (2)	Proper Dwelling Unit Separation: attics, doors, walls, floors and ceilings
321.08 (2)	
	at roof, ceiling and floor penetrations and at each
*	floor level unless in a chase
Listing	- Insulation shield in attic
Listing	- Enclosed in chase through occupied spaces
Rough ductwork	
(and-to-be concealed	
ducts)	
323.09(2)(b)	At least one return air opening per floor
1	The resist one return an opening per ricor
221 22(5)	
321.22(5)	Proper notching and boring of joists - maximum notch of 1/6 of depth but
	Proper notching and boring of joists - maximum notch of 1/6 of depth but not in mid-1/3 span
321.22(5) 321.225) T.323.08-A	Proper notching and boring of joists - maximum notch of 1/6 of depth but

222.00 (1)	
323.08 (1)	Not used for any other systems (any electrical, telephone or CATV boxes in
	return air spaces to be separated off)
Т.323.08-В	Supported 10' - 12' o.c.
323.08(8)	Joints securely fastened
323.08(2)	Ducts serving kitchen hoods to be metallic
321.32	Factory-built fireplace
323.18(1)	Equipment Installed per listing and manual (which is to be left on site)
	Safety strip in front of opening
	Chimney installed per above
Listing	No combustibles below top spacers or closer to jacket than listing (1"
Listing	typical)
323.09	No combustion air from garage without backdraft damper;
Listing	Manufactured Fireplace
Zisting	Safety strip installed
	Clearances to combustibles
	Cicurances to combustions
ROUGH	
MASONRY	
FIREPLACE	
AND	
MASONRY	
CHIMNEY	
Masonry	
Fireplace	
321.15(2) (d)	Supported on 12" thick footings that extend 4" on either side
321.29	Fireplace supported on minimum 8" thick foundation
(10)	Cleanout provided
(6)	Properly sized hearth extension: less than 6 square feet opening - 8" to
	sides, 16" to front; bigger - 12" to sides, 20" to front
(3)	Side and back walls of fireplace at least 8" thick
	Masonry fireboxes of firebrick laid in thin refractory cement
(1)	Flue sized for fireplaces: round: 1/12 of opening; rectangular: 1/10;
,	minimum 75 square inches
Masonry	
Chimney	
321.30(2)	Proper flue size for other appliances
(3)	Multiple flues separated by 4" masonry
(9)(a)	Minimum clearance to combustible framing of 2" for interior chimneys and
(2)(4)	1/2" for exterior chimneys
(9)(b)	Minimum clearance of 1/2" to combustible trim
(9)(c)	Draft stop at each floor level
(8)	Minimum 2" chimney cap
321.29(2)	Terminate 3' above roof and 2' above any roof within 10'
321.27(2)	Terminate 5 above 1001 and 2 above any 1001 within 10
HEATING	
FINAL	
INSPECTION	
Outside	
NFPA 54	Gas pipe entrance nipple protected - galvanized, epoxy coated, taped or
7.2.1	sleeved
	·

323.11	Sidewall appliance venting
Typical Listing per	- 3' from gas meter or regulator
NFPA 54 12.7.2	- 5 from gas meter of regulator
12.7.2	- 1' above grade
3.3.107	- sealed combustion
10.7.1.2	- 50,000 BTU or less - 9" from building opening
10.7.1.2	- over 50,000 BTU - 12" from opening
10.7.2	- power vented - 4' from openings
323.11 (2)	Chimney and vent termination
323.11 (2)	- 3' above roof and 2' above roof within 10'
323.13	
	- B vent with listed cap can terminate 1' above roof with slope less than 8/12
Typical Listing	
222.16 (1)/NIEDA 59	LP Tanks
323.16 (1)/NFPA 58 6.3	
0.3	125 gallon tank - 5' from doors or windows, 10' from any sources of ignition
	(AC, furnace intakes)
6.3	125-1200 gallons - 10' from building, sources of ignition or property line
323.16 (1)(c)	On adequate supports
6.3	Safe from vehicle damage
6.3	Gas regulator outlet to be 3' horizontally away from building opening below outlet
6.8.1	Piping and regulator properly secured
Inside	
323.09 (1)&(2)	Dampers, registers, and grilles
T-323.07	
Listing	Insulation shield around vent or chimney in attic
323.16/NFPA 54	Gas range and dryer shutoffs within 6' of appliance
9.6.4	
Woodstoves properly	
installed (see	
checklist)	
323.045	
Fireplaces	
	H. d. t. '. a. a. 1. '. 11. d. C. a. a. C. t. 0" t. '1. 10" t.
321.29 (6)	Hearth extension properly sized, less than 6 square feet: 8" to sides, 16" to front; bigger: 12" and 20"
	7 66
321.32 (1)(a)	Factory-built fireplace firebox caulked or mortared to surround
321.29 (11)	Proper mantel and trim clearances; masonry fireplace: not within 6",
	maximum 1/8 projection per inch of clearance between 6" and 12" away
	from fireplace opening
Basement	
NFPA 54/7.2.6	Gas pipe hangers: 1/2": 6' o.c., 3/4" and 1": 8' o.c. lines on 8' centers
321.30 (9)	2" clearance between chimney and combustibles
323.11 (1)	Proper clearance to B vent (typically 1")
Listing	
_	Furnace and water heater properly installed (see heating checklist)
Ducts	
323.09(1)	- shutoff dampers on accessible runs
322.17	onaton adinpers on december runs
T.323.08-B	- supported 10' - 12' o.c.
1.525.00 B	supported to 12 o.c.
323 ()8(1)	- not used as chases for other mechanical systems
323.08(1)	- not used as chases for other mechanical systems

General Heating	
O	
Plant 323.04	To be fortilled and the form
323.18(1)	To be installed per listing Manual left at site
323.18(1)	Manual left at site
322.15	Sized per ResCheck/RemRate Energy Worksheet
323.17(2)	24" of clearance in front of portions needing servicing
322.31 (3)	80% AFUE minimum
T-322.31-3	00% Al OE minimum
322.39 (5)	Automatic flue damper (or outside combustion air or induced draft or
622.65 (0)	secondary exchanger) and electronic ignition
Typical Listing	If damp floor, provide raised base
- 7 F	
NFPA 54	Gas Piping
9.6.4.1	Shutoff valve within 6'
7.6.1	Drip tee
NEC 90	HVAC Electrical Connection - Venting
112000	Dedicated circuit (new construction)
4450.53	Properly fused per data plate
440.14	Disconnect within sight
440.61	Grounding connection made
323.06	Combustion air
(1)(a)	100 cubic feet of room volume per 1000 BTU (12.5 square foot floor area if
	8' tall) input or bring in air
(4)(d)4.c.	House air - two openings (high/low), each 1 square inch per 1000 BTU
	(figure 20% free air for wood louvers and 60% for metal louvers)
(4)(b)	Outside air - two openings (high/low) each 1 square inch per 4000 BTU
Venting	
Atmospheric	
Venting	
T.323.15-C	6" min. clearance between single wall connector and combustibles
323.045 (4)(d) 4.	Connector securely joined and supported
323.155	Vent sized to appliance collar
	Co-venting - no exhaust pipe tees or back-to-back flue entrances – f Venting
	area shall be at least equal to the size of the largest vent connectors plus at
	least 50% of the area of the other vent connectors.
323.11(1) + (2)	Termination - 3' above roof and 2' above roof within 10' (B vent with listed
	cap can terminate 1' above roof with slope less than 8/12)
T ' .'	Sidewall venting (typical)
Listing	All vents under positive pressure to be tightly sealed
Listing	PVC vent slaged 1/4" are fact to former
Listing Listing	PVC vent sloped 1/4" per foot to furnace Maximum vent length per manufacturer (typical 30-40 feet plus two elbows)
	Termination
NFPA 54 and	Termination
Listing	21.5
12.7.2	3' from gas meter or regulator
12.7.2	1' above grade
12.7.2	Away from damageable items (AC, electrical equipment)
3.3.107	Sealed combustion
12.7.2	- 50,000 BTU or less - 9" from windows, etc.
12.7.2	- power vented - 4' from openings
Listing	Condensate drain vent in place Condensate drain to sanitary drain
323.156	

Ducts	
T.323.08-A	Duct construction - Minimum Sheet Metal Gauge
323.08(1)	Not used as chases for other mechanical systems
323.09(1)	Duct dampers (on accessible ducts)
T.323.08-B	Rigid Duct Support 12' o.c.
323.08(8)	Joints securely fastened
323.09(2)(b)	No return air openings in same room as atmospheric vented appliance
323.09(2)(b)	Doors undercut if no return air opening in room
Boilers	
T-(382.43-1)	Backflow prevention: per Table 382.43-1
,	Pressure/temperature blow off valve and pipe
Listing	
Listing	Barometric damper in same room as appliance
WARED HEARED	
WATER HEATER 323.04	To tall along the design
323.18 (1)	Installed per listing Manual left at site
323.17 (2)	Twenty-four inches clearance in front of portions needing servicing
382.40 (5)(d)	Pressure/temperature blow off valve and pipe discharging within 6 inches of
382.40 (3)(d)	the floor or receptor but not less than 2 x pipe dia. to floor
323.06	Combustion air - see furnace section
NFPA 54 5.5.6	Gas sediment trap
NFPA 54 5.5.4	Gas shutoff within 6 feet
T-323.15-C	Six inches clearance to smoke pipe
323.045 (4)(d)4.	Smoke pipe sections securely joined and supported
Listing & NFPA 54	Sidewall venting - see furnace section
Wood	
Appliances	
323.045 (1)	To be listed and installed per listing
Listing	Proper clearances to combustibles
g	
323.045 (5)	Proper floor protection
	Supplemental units (connected to furnace)
323.045(8)	Connected on warm air side of furnace (stove not to dump hot air into
, ´	furnace return air cabinet)
323.045(8)(e)	Three feet separation between stove and furnace
Chimney	
Connector	
323.045(4)(b)	Eighteen inches clearance between single wall connector and unprotected combustibles
323.045(4)(c)	Readily accessible
323.045(4)(d) 4.	Sections joined with 3 screws or rivets
323.045(4)(d) 5.	Sections joined so creosote flows to stove
323.045(4)(d) 4.	Securely supported
	Damper installed
Chimney	
323.045(3)(b)	Vented to own flue
323.045(3)(a) 2	Lined masonry

323.045(3)(a) 1.	Factory built chimney to be 2100° F. high temperature (HT) type
Ducts	
323.045 (9)	Supply duct clearances to combustibles
T- 323.045-F	First 3 feet from stove: 18 inches
	3 to 6 feet: 6 inches
	Over 6 feet: 1 inch
Final Inspection (uidelines
The following items a	e generally critical items that must be complying in order for occupancy to take place:
	All easily accessible electrical boxes closed up
	Bathroom and kitchen plumbing fixtures in place
	Smoke detectors
	Guardrails
	Steps and handrails
	Erosion Control measures to be maintained by owner until site is stabilized
	(70% perennial vegetative cover)
The following items n	ay generally be noted as non-complying on the occupancy permit and not require re-inspection
	Caulking
	Final Grade