



## **SWIMMING POOL, SPAS & HOT TUBS INFORMATION PACKET**

### **GENERAL INFORMATION:**

1. Pool permits are valid for six months from the date of issuance.
2. Fees are \$500.00 for in-ground pools and \$250.00 for above-ground pools. Decks constructed with a pool are \$75.00 per 100 SF (\$300.00 minimum) plus 25% plan review (\$100 minimum)

### **REQUIRED SUBMITTALS AT TIME OF APPLICATION:**

- Building Permit Application
- Swimming Pool, Spas & Hot Tubs Affidavit
- Copy of Plat of Survey with location of pool/spa/hot tub and/or deck shown and distances from the lot lines marked
- If deck will be built for pool, deck plans must be submitted

### **SITE PLAN REQUIREMENTS:**

#### **THE CURRENT PLAT OF SURVEY MUST INCLUDE THE FOLLOWING:**

- A legible copy that includes the legal description, the surveyor's name and date of survey.
- Proposed new construction must be drawn to scale, include exterior dimensions and indicate the distance to the property lines
- Location of existing well and septic system must be shown.
- The Plat of Survey must be separate from any building plans.
- Plat of Survey must include all existing buildings, driveways, improvements and easements

\*For parcels located in a flood plain, contact the Water Resources Department for additional requirements.\*

**BUILDING & ZONING SETBACK RULES & REGULATIONS:**

**IN-GROUND AND ABOVE-GROUND POOLS:**

1. Distance required from side and back lot line is (10) feet and (3) feet from any easement.
2. Lots of (50) feet or less in width require a distance from side lot lines of (5) feet.
3. Distance from septic tank and field-(25) feet for in-ground pool & (1) feet for above-ground pool.
4. Distance required from any road right-of-way is (35) feet unless stipulated greater on zoning map or recorded plat.
5. Every person owning land on which there is situated a swimming pool shall erect and maintain adequate enclosure surrounding the property or pool area. Such enclosure must not be less than (4) feet high with a latching gate.

FOR ABOVE-GROUND POOLS-sides that are (4) feet high and **NOT** dug into the ground, a fence is not required. However, stairs **MUST** be pulled up when not in use

## CHAPTER 11

# REFERENCED STANDARDS

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**User note:**

*About this chapter:* This code contains numerous references to standards promulgated by other organizations that are used to provide requirements for materials and methods of construction. Chapter 11 contains a comprehensive list of all standards that are referenced in this code. These standards, in essence, are part of this code to the extent of the reference to the standard.

*This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 102.7.*

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## AHRI

Air Conditioning, Heating & Refrigeration Institute  
2311 Wilson Boulevard, Suite 400  
Arlington, VA 22201

- 400 (I-P)—2015: Performance Rating of Liquid to Liquid Heat Exchangers**  
Table 316.2(1)
- 1160 (I-P)—2014: Performance Rating of Heat Pump Pool Heaters—(with Addendum 1)**  
Table 316.2(1)

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## ANSI

American National Standards Institute  
25 West 43rd Street, 4th Floor  
New York, NY 10036

- A108/A118/A136.1—2019: Specifications for Installation of Ceramic Tile**  
Table 307.2.2
- Z21.56a/CSA 4.7—2017: Gas Fired Pool Heaters**  
Table 316.2(1)

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## APSP

Pool & Hot Tub Alliance (formerly The Association of Pool & Spa Professionals)  
2111 Eisenhower Avenue, Suite 500  
Alexandria, VA 22314

- ANSI/APSP/ICC 4—2012: American National Standard for Aboveground/Onground Residential Swimming Pools—Includes Addenda A Approved April 4, 2013**  
702.2.1
- ANSI/PHTA/ICC 7—2020: American National Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins**  
310.1
- ANSI/APSP/ICC 14—2019: American National Standard for Portable Electric Spa Energy Efficiency**  
303.2
- ANSI/APSP/ICC 15—2011: American National Standard for Residential Swimming Pool and Spa Energy Efficiency Includes Addenda A Approved January 9, 2013**  
303.3
- ANSI/APSP/ICC 16—2017: American National Standard for Suction Outlet Fitting (SOFA) for Use in Pools, Spas, and Hot Tubs**  
202, 311.4.1, 311.4.4, 505.2.1, 612.4.2
- ANSI/APSP/ICC/NPC 12—2016: American National Standard for the Plastering of Swimming Pools and Spas**  
307.2.5

REFERENCED STANDARDS

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**ASCE/SEI**

American Society of Civil Engineers  
Structural Engineering Institute  
1801 Alexander Bell Drive  
Reston, VA 20191-4400

**ASCE 24—14: Flood Resistant Design & Construction**  
304.3

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**ASHRAE**

ASHRAE  
1791 Tullie Circle NE  
Atlanta, GA 30329

**62.1—2019: Ventilation for Acceptable Air Quality**  
325.1

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**ASME**

American Society of Mechanical Engineers  
Two Park Avenue  
New York, NY 10016-5990

**A112.1.2—2012(R2022): Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-connected Receptors)**  
318.2

**B16.15—2013: Cast Alloy Threaded Fittings: Classes 125 and 250**  
Table 311.4.1

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**ASTM**

ASTM International  
100 Barr Harbor, P.O. Box C700  
West Conshohocken, PA 19428-2959

**A182/A182M—2018A: Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-temperature Service**  
Table 311.4.1

**A240/A240M—17: Standard Specification for Chromium and Chromium-nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications**  
Table 307.2.2

**A312/A312M—2018: Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes**  
Table 311.4

**A403/A403M—2018A: Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings**  
Table 311.4.1

**B88—2016: Standard Specification for Seamless Copper Water Tube**  
Table 311.4

**B447—12a: Specification for Welded Copper Tube**  
Table 311.4

**D1527—99(2005): Specifications for Acrylonitrile Butadiene Styrene (ABS) Plastic Pipe, Schedules 40 and 80**  
Table 311.4, Table 311.4.1

**D1593—13: Standard Specification for Nonrigid Vinyl Chloride Plastic Film and Sheeting**  
Table 307.2.2

**D1785—15E1: Specification for Poly Vinyl Chloride (PVC) Plastic Pipe, Schedules 40, 80 and 120**  
Table 311.4

**D2241—15: Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR Series)**  
Table 311.4

**D2464—15: Standard Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80**  
Table 311.4.1

**D2466—2017: Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40**  
Table 311.4.1

**D2467—15: Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80**  
Table 311.4.1

**ASTM—continued**

- D2672—14: Standard Specification for Joints for IPS PVC Pipe Using Solvent Cement**  
Table 311.4
- D2846/D2846M—2017BE1: Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems**  
Table 311.4, Table 311.4.1
- F437—15: Standard Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80**  
Table 311.4.1
- F438—2017: Standard Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40**  
Table 311.4.1
- F439—13: Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80**  
Table 311.4.1
- F1346—1991(2018): Standard Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs**  
305.1, 305.4

**CPSC**

Consumer Product Safety Commission  
4330 East-West Highway  
Bethesda, MD 20814

- 16 CFR Part 1207—04: Safety Standard for Swimming Pool Slides**  
406.10

**CSA**

CSA Group  
8501 East Pleasant Valley Road  
Cleveland, OH 44131-5516

- B137.2—17: Polyvinylchloride (PVC) Injection-moulded Gasketed Fittings for Pressure Application**  
Table 311.4, Table 311.4.1
- B137.3—17: Rigid Polyvinylchloride (PVC) Pipe and Fitting and Pressure Applications**  
Table 311.4, Table 311.4.1
- B137.6—17: Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fitting for Hot- and Cold-water Distribution Systems**  
Table 311.4, Table 311.4.1
- C22.2 No. 108—14: Liquid Pumps**  
313.8
- C22.2 No. 218.1—13 (2017): Spas, Hot Tubs and Associated Equipment**  
302.3, 309.1, 310.1, 313.8, Table 316.2(1), 317.2, 509.1, 1001.4, 1001.7
- C22.2 No. 236—15: Heating and Cooling Equipment**  
Table 316.2(1)
- Z21.56a/CSA 4.7—2017: Gas Fired Pool Heaters**  
Table 316.2(1)

**IAPMO**

IAPMO  
4755 E. Philadelphia Street  
Ontario, CA 91761-USA

- IAPMO Z124.7—2013: Prefabricated Plastic Spa Shells**  
TABLE 307.2.2

**ICC**

International Code Council, Inc.  
500 New Jersey Avenue, NW 6th Floor  
Washington, DC 20001

- IBC—21: International Building Code\***  
201.3, 304.2, 306.1, 307.2, 410.1

REFERENCED STANDARDS

ICC—continued

- ICC 901/SRCC 100—2020: Solar Thermal Collector Standard  
316.6.2
- ICC 902/APSP/SRCC 400—2020: Solar Pool and Spa Heating System Standard  
Table 316.2(2)
- ICC A117.1—2017: Accessible and Usable Buildings and Facilities  
307.1.4
- IECC—21: International Energy Conservation Code®  
201.3, 316.4
- IFC—21: International Fire Code®  
201.3
- IFGC—21: International Fuel Gas Code®  
201.3, 316.4
- IMC—21: International Mechanical Code®  
201.3, 316.4
- IPC—21: International Plumbing Code®  
201.3, 302.2, 302.5, 302.6, 306.8, 318.2, 410.1
- IRC—21: International Residential Code®  
102.7.1, 201.3, 302.1, 302.5, 302.6, 304.2, 306.1, 306.3, 306.8, 307.2, 316.4, 318.2, 321.2.1, 321.4,  
703.1, 802.1, 802.2

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**NEMA**

National Electrical Manufacturers Association  
1300 North 17th Street Suite 900  
Rosslyn, VA 22209

- NEMA Z535—2017: ANSI/NEMA Color Chart  
409.3

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**NFPA**

National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02169-7471

- NFPA 70—2020: National Electrical Code  
302.1, 316.4, 321.2.1, 321.4

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**NSF**

NSF International  
789 N. Dixboro Road P.O. Box 130140  
Ann Arbor, MI 48105

- NSF 14—2017: Plastics Pumping Systems Components and Related Materials  
302.3, 311.4
- NSF 50—2017: Equipment for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities  
302.3, 309.2, Table 316.2(1), 508.1, 612.5.4

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**UL**

UL LLC  
333 Pfingsten Road  
Northbrook, IL 60062

- 372—2007: Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Burner Ignition Systems and Components—with revisions through July 2012  
506.2.1, 506.2.2
- 873—2007: Temperature-indicating and Regulating Equipment—with revisions through February 2015  
506.2.1, 506.2.2
- 1004-1—12: Rotating Electrical Machines General Requirements—with August 2018  
313.8

UL—continued

- 1081—2016: Swimming Pool Pumps, Filters and Chlorinators—with revisions through October 2017  
313.8
- 1261—2016: Standard for Electric Water Heaters for Pools and Tubs—with revisions through September 2017  
Table 316.2(1)
- 1563—2009: Electric Spas Equipment Assemblies and Associated Equipment—with revisions through October 2017  
302.3, 309.1, 310.1, 313.8, Table 316.2(1), 317.2, 509.1, 1001.4, 1001.7
- 1995—2015: Heating and Cooling Equipment—with revisions through August 2018  
Table 316.2(1)
- 2017—2008: General-purpose Signaling Devices and Systems—with revisions through January 2018  
305.4
- 60335-2-100: Standard for Household and Similar Electrical Appliances: Particular Requirements for Electrically Powered Pool Lifts, with revisions through September 29, 2017  
307.1.4
- UL/CSA 60335-2-40-17: Standard for Safety for Household and Similar Electrical Appliances – Safety – Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers  
Table 316.2(1)

## **WOOD DECK PLAN REQUIREMENTS:**

1. One (1) set of the building plans, drawn at 1/4" to 1'-0 scale.
2. The building plans must show the following:
  - The overall size of the deck features a plain view.
  - The locations with dimensions of all piers, beams, stairs and the direction of joists.
  - The minimum pier footing is 8" thick and 12" diameter. Required deck pier footing depths are 42" for structures with frost footings and 24" deep for free standing decks (decks not attached to houses).
  - The loading on the deck is 40# live and 10# dead load for each square foot of deck surface including the stairs. Specify the soil pounds per square foot bearing capacity at the building site or a 3000-pound per square foot minimum soil pressure will be assumed. Design the pier sizes and locations to support the imposed loads.
  - Show the grade, species and size of the lumber used. The lumber must be rot resistant or a treated material.
  - Raised floor areas a total of 30 inches above the ground shall have guardrails. The minimum height of platform guardrails shall be 36 inches and railings on the open side of stairs shall be 34" to 38". Open side of stairs with a total rise of less than 30" require a handrail only.
  - Guardrail opening limitations will not allow passage of a 4" diameter sphere.
  - The ledger board must be attached directly to the wood framing of the structure or concrete foundation by a bolted connection. Use *W* diameter bolts with washers - staggered 16" oc. for ledger attachment to structure. Concrete anchors must be a minimum of six (6) inches in length. Ledger boards are prohibited from attachment thru siding.
  - Ledger board attachment thru any stone veneer must be designed by an Illinois registered structural engineer or architect.
  - Provide continuous flashing, with drip edge, over the ledger board.
  - Lateral Load Tensioning Devices (Min. 2) are required on all decks per R 507
  - Free Standing and attached decks require lateral bracing in both directions on the comers.
  - If you are building a multi level deck configuration, then show the decks in "plan view" marked; upper deck, lower deck, etc. and a section thru each level step-up to show the construction.
  - Post-base anchors are required for all posts or beams "setting-on" any type of foundation system. Exception: Post "setting-on" footings 42" or more below grade.
  - Show the distance of the deck floor above the ground.
  - "Ready-mix" concrete is required, no "dry-mix" dumped into the footings.
  - Handrail grip-size R311 IRC code section "Means of Egress" shall apply to exterior decks. Grip sizes: Type I: 1-1/4" to 2" Dia. Or Type II: 1-1/4" to 2-3 /4" grip width above the grip recess. Grip recess: see code for the size and location.
  - Open and closed riser stairs, show what type to be used follow R311• Profile" Open rise are permitted, provided that the opening between treads does not permit the passage of a 4" sphere



48" Fence and Self Latching Gate With Locking Device At 52" On Inside Of Gate

**POOL and Deck**  
48" Above Finished Grade

5/4"X6" COMPOSITE DECKING

STEPS TO GRADE

**SAMPLE**

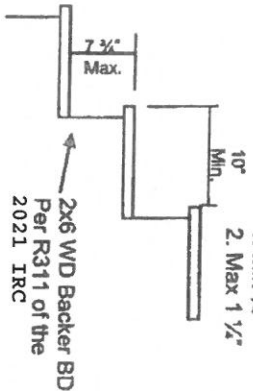
**Deck Framing Materials**

Show Lumber Grade \_\_\_\_\_  
Lumber Species – Southern Pine  
or Mixed Southern Pine  
(Circle One)  
Lumber to be Pressure Treated –  
Yes or No (Circle One)

Handrail required on stair with four or more risers.  
 Handrail height 34"-38".  
 Handrail grip-size R 311 IRC code section.

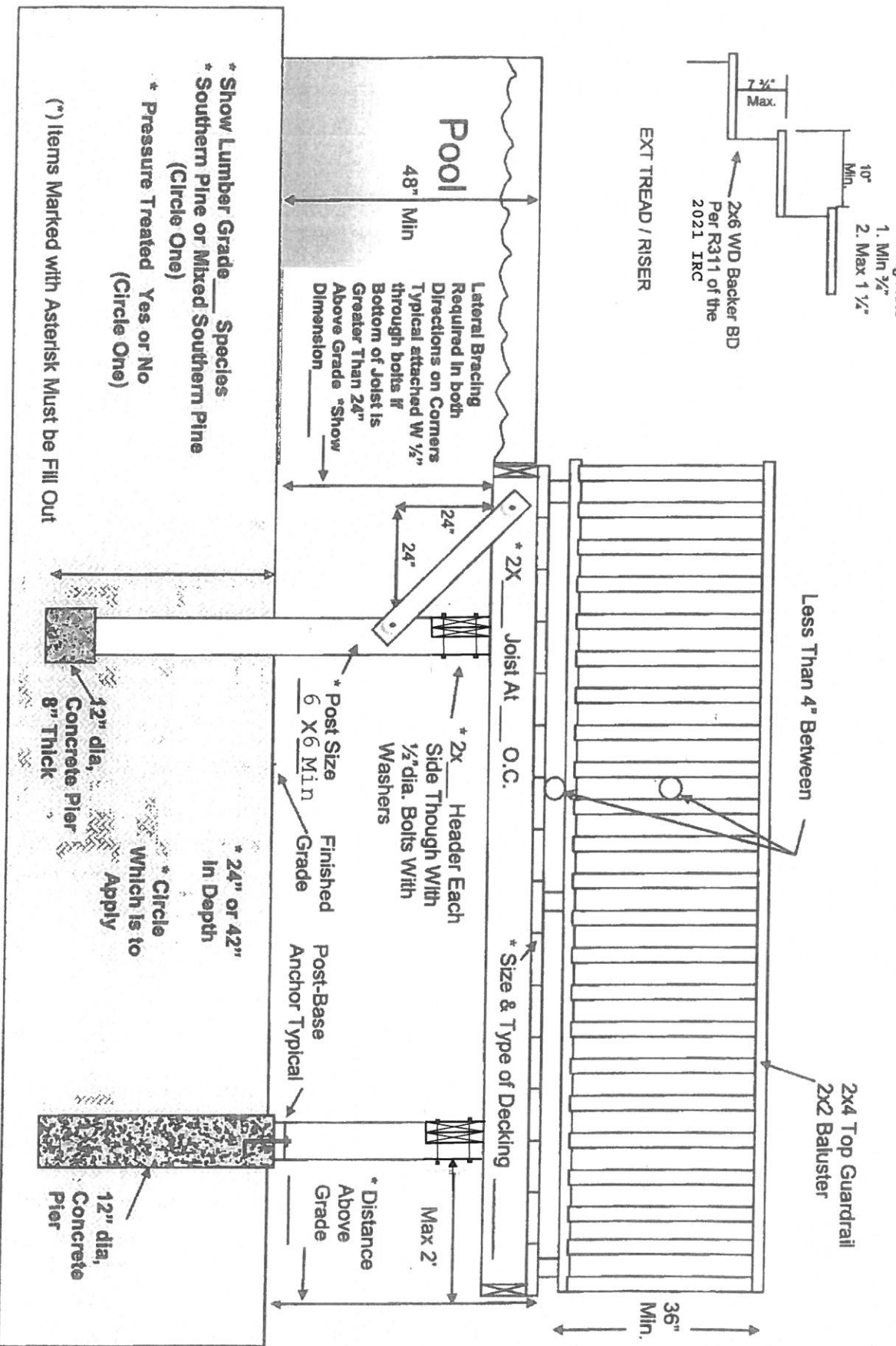
**Nosing Note**

- 1. Min 1/2"
- 2. Max 1 1/2"



EXT TREAD / RISER

**POOL WITH FREESTANDING DECK**  
 REFER TO 2021 ISPPC SECTION 305  
 FOR BARRIER REQUIREMENTS AND  
 GATE/LATCHING REQUIREMENTS



\* Show Lumber Grade \_\_\_\_\_ Species  
 \* Southern Pine or Mixed Southern Pine  
 (Circle One)  
 \* Pressure Treated Yes or No  
 (Circle One)

(\*) Items Marked with Asterisk Must be Filled Out

\* 24" or 42" In Depth  
 \* Circle Which is to Apply  
 12" dia, Concrete Pier  
 8" Thick

12" dia, Concrete Pier

# COUNTY OF KANE

DEVELOPMENT DEPARTMENT  
Building & Community Services Division  
Mark D. VanKerkhoff, AIA, Director



County Government Center  
719 Batavia Avenue  
Geneva, Illinois 60134  
Phone: (630) 232-3485  
Fax: (630) 232-3411  
Website: [www.co.kane.il.us](http://www.co.kane.il.us)

## BUILDING PLAN REVISIONS

TO AVOID POSSIBLE DELAYS IN APPROVAL OF YOUR PLANS PLEASE FOLLOW THESE PROCEDURES  
ALL CORRECTIONS AND REVISIONS MUST BE MADE IN RED.

- 1) The Kane County Development Department, Building and Community Service Division must approve ALL revisions to approved building plans.
- 2) FOR ALL REVISIONS: (during application review process and after permit is issued)

Revisions may be made on the original submitted plan sets. If "new drawings" are submitted the originally submitted plan marked "permit copy" must be returned with two new plan sets.

- a) Each revision set must be identified by a "revision #, item #" and date. The revision numbers must be sequential e.g. "first revision" 1.1, 1.2, 1.3, etc., 2-02-01, "Second revision" 2.1, 2.2, 2.3, etc., 3-05-01. Each revision must have a "cloud" drawn around it and "item number triangle" to call attention to its location on the plan.

Examples: 

- b) Revisions in response to a Plan Review or Field Inspection Report must be added to the proper locations on the plans and correlated to the plan review or field inspection report. AN EXAMPLE OF THIS IS ON THE REVERSE SIDE OF THIS SHEET.
  - c) Revisions to plans sealed by an Illinois licensed architect or Illinois structural engineer must be approved and added to the plans by that same professional.
  - d) Revisions prepared by an Illinois licensed architect or Illinois structural engineer must have their initials at each revision and be accompanied by two sealed copies of an approval letter confirming the added revisions.
  - e) New building plans may be required for plans that have extensive changes and/or are in a unreadable condition or damaged beyond reasonable repair, as determined by the Building Division.
  - f) No faxed or mailed revisions will be accepted.
- 3) FOR REVISIONS TO APPROVED PERMIT PLANS:
    - a) A \$50.00 minimum re-examination fee will be charged plus other fees e.g. "additional square footage."
    - b) The approved Permit Copy plan set must accompany all proposed revisions.
    - c) Submit all revisions for approval one week prior to any scheduled inspections. The Building Division cannot assure "on the spot" review of revisions. Major revisions may require review by other county departments.

# SAMPLE OF CORRELATED PLAN REVIEW SHEET



**Building Plan Review Notice**  
 County of Kane  
 Plan Review Notice

## SAMPLE OF CORRELATED PLAN REVIEW SHEET

February 11, 2001  
 ACME CONSTRUCTION  
 22N135 RIVERVIEW AVE.  
 AURORA, IL 60001

Permit #: DB-2001-6842  
 Parcel: 01-40-211-8420  
 Owner of App: SMITH, JOHN  
 Date of Plans: 01/22/01

PROJECT NAME: JOHN SMITH RESIDENCE

**Make All Corrections in Red on Original Prints Submitted**

Review # 1 Review Date 01/22/01 Reviewer Jack Longfellow

Code Section Comment

### FOUNDATION PLAN

CHAP. 29 AMENDED

2-02-01  
 JLM  
 SHEET 4



Basement floor drain - to sanitary sewer  
 \* MARK ALL - ALSO NEED DRAIN AT LOWER LEVEL(SPORTS AREA) TO SANITARY (GRAY WATER)

R403

2-02-01  
 JLM  
 SHEET 4



Column footings - size and thickness  
 \* YOUR NOTE SAYS TYPICAL FOR 8 - THERE ARE 10 (ONE BY THE STAIRWAY TO 1ST FLOOR (NEAR ARCADE AREA)

R1003

2-02-01  
 JLM  
 SHEET 4



Fireplace footing - 12" thick - project 6" all sides  
 \* FIREPLACE FOR STUDY/LIBRARY

### WALL CROSS SECTION

R406

2-02-01  
 JLM  
 SHEET 6



Damp proofing foundation walls  
 \* CLARIFY - PART OF THE NOTES SAY DAMP PROOFING OTHERS SAY WATER PROOFING

TABLE N1102.1 (AMENDED)

2-02-01  
 JLM  
 SHEET 6 & 8



Insulation R value (flat ceiling R38-cath ceiling R30 w/1" airspace above-walls R20-floors R30-crawl & unfin basement walls R10/13 finished-min R10 perimeter insul at walkout found walls or at application energy perform progrm. Cert at final inspection  
 \* FLOOR INSULATION FOR AREAS OVER THE GARAGES AND THE PRECAST (CEILING OVER THE SPORTS AREA - R38) - ALSO WALKOUT DETAIL AND FLOOR PLAN NOTES FOR PERIMETER INSULATION DO NOT AGREE B/A-9 AND SHEET A-3 ALSO NEED TO FILL OUT ALL INSULATION FORMS (ATTACHED) - PLANS AND CHART INFO MUST ALL AGREE

R803

2-02-01  
 JLM  
 SHEET 6



Roof sheathing - thickness of APA rated sheathing - osb or plywood  
 \* CLARIFY ROOF SHEATHING - 2 LAYERS OF 1/4" PLYWOOD ON THE WHOLE ROOF OR JUST AT THE BOTTOM EDGE OF THE ROOF ?

### FLOOR PLAN

R313 AMENDED

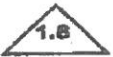
2-02-01  
 JLM  
 SHEET 5 & 8



Smoke alarms req'd in all sleeping rooms and at all floor levels - mark locations: 110v interconnected - within 15' of each sleeping area door on hall side of door  
 \* EXERCISE ROOM HAS A CLOSET ANY WILL BE CONSIDERED A BEDROOM - WILL REQUIRE A SMOKE ALARM IN THE AREA AND IN THE HALL W/ 15' OF THE DOOR TO THE AREA. ALSO A ALARM IS REQUIRED W/ 15' OF THE GUEST BEDROOM DOOR ON THE HALL SIDE OF THE DOOR

R308

2-02-01  
 JLM  
 SHEET 5



Glazing requirements - add note to plans : All glazing to follow R308 of the 2003 IRC as required  
 \* ADD A GENERAL NOTE AS CALLED FOR ABOVE

\* This is an additional comment for item directly above.