

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 <u>NOT</u> dug into the ground, a fence is not required. However, stairs **MUST** be pulled up when not in use



Residential Swimming Pool, Spa and Hot Tubs Affidavit

Owner:	
Pool Address :	
City/ Zip:	
Please complete the following information:	
Type of pool: (pool plans and information are not required)	House
In-ground pool, Spas and Hot Tubs	
Above-ground pool, On-ground pools, Spas and Hot Tubs	
Above-ground pool, Spas and Hot Tubs with deck	House
Type of Barrier: (must be drawn and labeled on site plan)	
Top of the pool (and deck if applicable) will be 48" above grade. All units v of the applicable barrier requirements per Section 305- Barrier Requirements.	vill meet all
The pool will be completely surrounded by a fence or barrier per Section 30 Requirements. If pool has lock able safety cover complying with ASTM F1346 a fencis not required per Section 305.1	5.2 - Barrier ce or barrier
The pool will be surrounded by a fence or barrier AND the wall of the dwel serve as part of the barrier. Both will comply with Section 35.2 and 305.4 - Barrier Ro	
The pool will be completely indoors and all walls surrounding the pool shall with Section 305.4 and provide lockable safety cover per Section 305.4 (5)	l comply
I hereby, certify that the design and installation of the proposed pool will comply with <i>International Swimming pool and Spa Code (ISPSC</i>). Swimming pool permits are v months; a final inspection must be completed within this time frame and before the pofor the season.	alid for 6
Signature of applicant/owner:	
Print name:	
Name of Pool Company/ Installer:	
Date:	

CHAPTER 11 REFERENCED STANDARDS

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.

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)

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)

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

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

ASHRAE

ASHRAE 1791 Tullie Circle NE Atlanta, GA 30329

62.1—2019: Ventilation for Acceptable Air Quality 325.1

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

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

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

NEMA

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

NEMA Z535—2017: ANSI/NEMA Color Chart 409.3

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

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

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

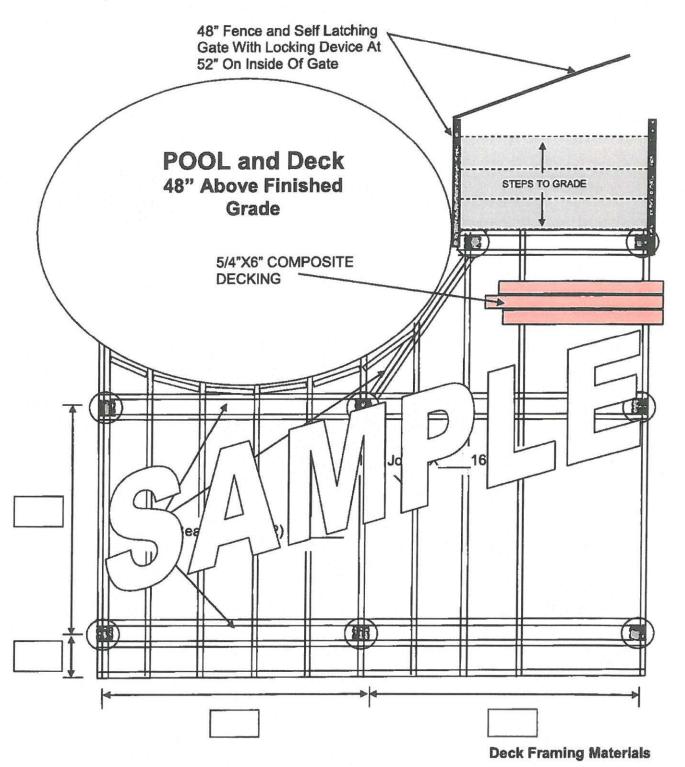
UL—continued

- 1081—2016: Swimming Pool Pumps, Filters and Chlorinators—with revisions through October 2017
- 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

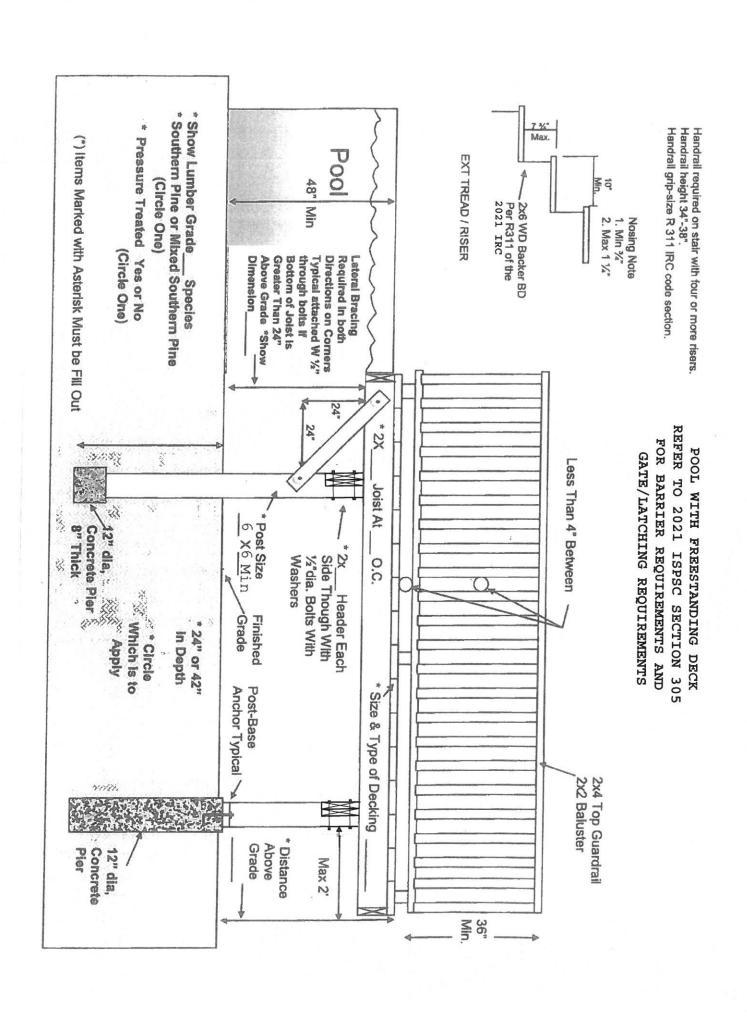
 Table 316.2(1)

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



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



COUNTY OF KANE

DEVELOPMENT DEPARTMENTBuilding & 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.if.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. <u>If "new drawings" are submitted</u> the originally submitted <u>plan marked "permit copy" must be returned with two new plan sets.</u>

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: REVISED 1.1 2-02-01 NEXT → CHANGE DATE REVISED 2.1 3-05-01

- 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. <u>AN EXAMPLE OF THIS IS ON THE REVERSE SIDE OF THIS SHEET.</u>
- 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.
- 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.
- No faxed or mailed revisions will be accepted.
- 3) FOR REVISIONS TO APPROVED PERMIT PLANS:
 - 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



Bullding 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

Column footings - size and thickness

Review &

Review Date 01/22/01

Reviewer Jack Longfellow

Code Section

Commant

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)

YOUR NOTE SAYS TYPICAL FOR 8 - THERE ARE 10 (ONE BY THE STAIRWAY TO 1ST

R403

2-02-01 2-02-01 JLM

FLOOR (NEAR ARCADE AREA) Fireplace footing - 12" thick - project 6" all sides
* FIREPLACE FOR STUDY/LIBRARY

SHEET A WALL CROSS SECTION

R408

R1003

2-02-01 SHEET 6

2-02-01



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

TABLE N1102.1 (AMENDED)



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 BIA-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



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/I 15' OF THE GUEST BEDROOM DOOR ON THE HALL SIDE OF THE DOOR

RRADE 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.