

SHED CHECKLIST

Please use the following checklist as a guide for the materials needed to issue a zoning permit and a building permit for a Shed. All information must be complete and provided to the City in order to issue the appropriate permits and approvals.

- Completed zoning permit
- Proof of Ownership: a recorded land contract or deed with a legal description of the property
- An acceptable, legible plot plan that shows property dimensions including all setbacks. Setbacks from other structures on the property. Also show all other overhead wires, drains, water edges, etc.
- A soil erosion permit from the Shiawassee County Drain Commission if 100 feet from water or 500 feet from the drain – or an Affidavit for a waiver.

If larger than _____ the following are required:

- A completed building permit application
- A Contractor Registration Form
- A Roof Loading Data Sheet
- Cross Section Detail Form
- A complete set of building and foundation plans
- A Michigan Uniform Energy Code Form

SHEDS, CARPORTS, GARAGES AND “OUT BUILDINGS”

Garages, sheds, carports, and other buildings, even swimming pools, are considered accessory structures. There two basic types of accessory buildings – attached or detached. Attached accessory buildings are those which are physically attached to the home. A typical example is an attached garage or an attached carport. Detached accessory structures are sheds, or other such structures which are not physically attached to the dwelling. All accessory structures require a building permit and zoning permit.

- All attached accessory buildings, including carports, shall be treated just like the main building or dwelling
- All detached accessory buildings shall be at least ten (10) feet to any other structure on the lot.
- All accessory buildings shall be at least ten (10) feet from a side or rear lot line.
- No accessory building can occupy more than 25% of the rear of any yard; no accessory building or structure can exceed the floor area of the principal building.
- Detached accessory structures in residential districts cannot exceed one story or 17 feet. Detached accessory structure in nonresidential districts are permitted to whatever the permitted height is in the district.
- No accessory building is permitted in the front yard.
- Except for agricultural buildings, no accessory building is permitted prior to the establishment of a principal structure.

SWIMMING POOL FACT SHEET AND CHECKLIST

Swimming pools are considered an accessory building for the purposes of complying with the zoning ordinance. This means that the pool will have to meet all applicable regulations that a garage would – such as sideyard and rear yard setbacks and maximum lot coverage. This fact sheet is intended to be used as a guide and checklist prior to seeking a building and/or zoning permit.

- The pool must meet all applicable side yard and rear yard setbacks for the zoning district in which it is located. Pools are not permitted in the front yard. No pool is permitted in an easement.
- Service drop conductors and any other open overhead wiring shall not be installed above a swimming pool
- All yard areas with pools are to be fenced as follows:
 - Fencing must be at least 4 feet and equipped with a self-closing and self-latching gate. Latching devices must be at least 3 feet above the ground.
 - Fencing may be omitted where building walls without doorways abut the pool area, provided that the entire perimeter of the pool is secured

No lights shall be erected, operated or maintained in connection with a swimming pool in such a manner as to create a disturbance to surrounding properties. All pools shall be kept clean and the water used there shall be filtered and sterilized by chlorination and in general in conformance with any State, County or local health standards.

When seeking a permit, you should bring the following information:

- A legible plot plan showing the proposed location of the pool, fencing, gates and all other existing structures on the site
- The manner of supervision of the pool



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Accessory Use Building or Structure Zoning Permit Application
Detached: Sheds, Carports, Garages, Outbuilding, Swimming Pools, Etc.
\$25 Fee

Property Owner's Name/Address:

Applicant's Name/Address:

	Phone #:

Address of Property where accessory will be placed:

Contractor Name/Address:

	Phone #:

Type of Structure _____ Proposed Use _____

Distance from other structures (10 foot min)

House _____ Others _____ (Show drawing)

Distance from lot lines: Front _____ Rear _____ Side _____
 (Side and Rear Min 10 Ft.)

Sq Feet of Rear yard _____ Sq Feet of House _____

Sq Feet of proposed accessory _____

Size of Accessory Height _____ Weight _____ Length _____

Provide drawing of placement of accessory on property. Please note locations of house, other buildings or structures locations, drives, sidewalks, etc.

Approved	Approved
Date: _____	Date: _____
Zoning Administrator	Building Official

Fee _____ Paid on _____

Permit # _____

SAMPLE

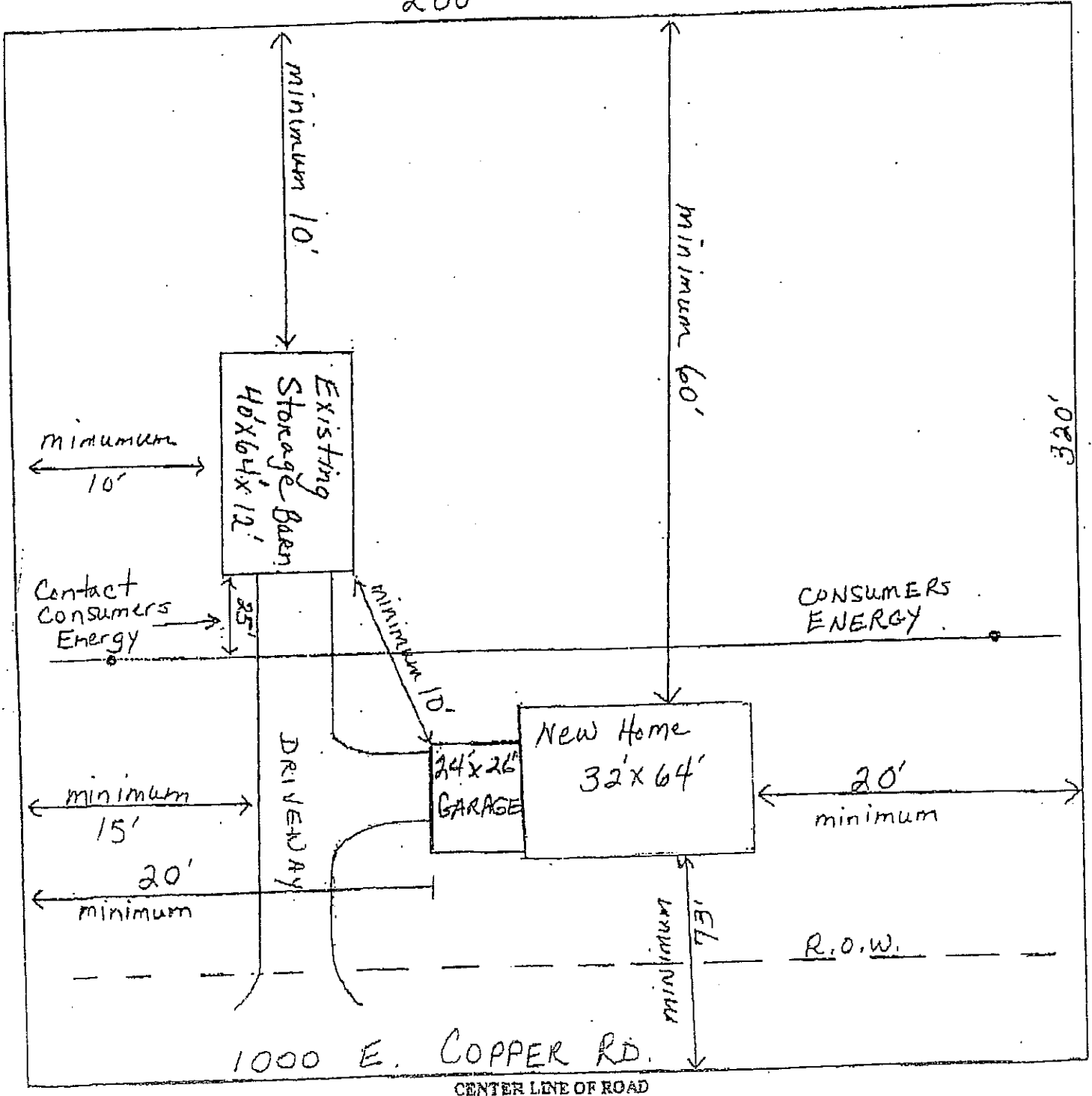
SHIAWASSEE COUNTY ZONING SITE PLAN GRID

NAME John Doe PROJECT ADDRESS 1000 E. COPPER RD.

LOT SIZE 200 x 320 OF NUMBER OF ACRES _____

(SEE REVERSE SIDE FOR INSTRUCTOINS)

200'



1000 E. COPPER RD.

CENTER LINE OF ROAD

Soil Erosion and Sedimentation Control (All earth changes will require review)

When might a permit from the Environmental Health Division be required?

1. If your project involves **disturbing soils** over an area of **one or more acres**.
2. If your project is **within 500 feet of a lake, stream, river, drain, or other water body**.
3. All projects involving earth moving activities that disturb **more than 225 square feet** (an SESC waiver **might** be issued for projects disturbing **less than 225 square feet**).
4. If your construction project is for a **permanent dwelling or a large-scale addition to an existing home**.

If you answered **yes to any of the questions** a SESC permit or verification that no permit is required will be needed as part of your Zoning permit application.

Zoning applications for projects such as decks, porches, swimming pools, small additions, and small accessory buildings **may** be reviewed in house. This **does not prohibit** an SCHD representative from conducting a site visit to determine whether or not a SESC permit will be required.

SHIAWASSEE COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION

Surbeck Building - 201 N. Shiawassee Street
CORUNNA, MICHIGAN 48817
PHONE: (989) 743-2390 FAX: (989) 743-2413
Web Address: <http://health.shiawassee.net>

GEORGE J. BICHETTE, J.D.
Director/Health Officer
DENNIS CHERNIN, M.D., M.P.H.
Medical Director

GENE PAEZ, R.S., M.P.H.
Director of Environmental Health

AFFIDAVIT FOR SOIL EROSION SEDIMENTATION CONTROL PERMIT WAIVER

Pursuant to Part 91, Soil Erosion Sedimentation and Control, of Act 451 of the Public Acts of 1994, as amended.

Owner's name: _____

Mailing address: _____

Property address: _____

Phone number: _____

Legal Description: Section _____ T. _____ N. R. E. _____ Township

Description of Earth Change Project: _____

I, _____ as the property owner, do hereby certify that the earth change at the above referenced property will disturb less than 225 square feet and the earth change will not contribute sediment to lakes or streams.

Signature: _____ Date: _____

AGENCY USE ONLY

This request for a SESC permit waiver has been reviewed by SCHD and is hereby issued in accordance with Rule 1705 (2) of Part 91.

Reviewed by: _____ Date: _____



P.O. BOX 178 • 114 WOODHULL STREET • LAINGSBURG, MICHIGAN 48848-0178
PHONE (517) 651-5374 • FAX (517) 651-5604 • www.laingsburg.us

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City of Laingsburg

Shiawassee County
Laingsburg, Michigan 48848
Application for Building Permit

Section # _____ Date _____

The undersigned in compliance with the laws of the State of Michigan and the ordinance of the City of Laingsburg hereby makes application under the above mention laws, ordinances and regulations hereby set forth for permission to;

Build, Demolish, Move _____ Building Size _____
Address _____ Owners Name _____

Contractor _____ License # _____ Expires _____
Address _____ City _____ State _____ Zip _____
Phone # _____

Workman's Comp Carrier _____

Internal Rev. Code # _____

Or reason for exemption

Michigan Employment Comp. # _____

Or reason for exemption

Specifications

Set Back _____ Side _____ Rear _____

Roof Type _____ No. Rooms _____ No. Bath _____

Footing _____ Basement _____

Construction _____ Garage _____

Drywall _____ Plaster _____ Fireplace _____

Chimney Type _____ Siding _____

Rafters _____ OC _____ Studding _____ OC _____

Floor Joist _____ OC _____ Sewer _____

Water _____ Detectors _____ Fire _____ Smoke _____

Approved _____
Building Inspector

Cert of Occupancy # _____ Permit # _____ Fee _____

Est. Cost _____ Contractor must sign application

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent, and we agree to conform to all applicable laws of the State of Michigan. All information submitted on this application is accurate to the best of my knowledge.

Section 23a of the State Construction Code Act of 1972, Act No. 230 of the Public Acts of 1972, being section 125, 1523a of the Michigan Compiled Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who perform work on a residential building or residential structure. Violators of Section 23 are subject to civil fines.

Signed (Contractor) _____

There will be a charge of \$25.00 on any returned checks



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PHONE (517) 651-5374 • FAX (517) 651-5604 • www.laingsburg.us

Contractor Registration

City of Laingsburg Building Inspections Department

No Fee Required

Date of Registration _____

Company Name _____

Licensed Person _____

Mailing Address _____ City _____ State _____ Zip _____

Telephone Number (____) _____ - _____ Fax Number (____) _____ - _____

Cell Number (____) _____ - _____

Type of License _____

License Number _____ Master Number if Applicable _____

Expiration Date/s _____

Fed I.D. # _____

Workman's Comp Carrier _____ (If Required)

Social Security Number _____

Divers License Number _____

Date of Birth _____

Attest: The information given is complete, true, and correct. I understand that work is required to be done in accordance with the Michigan Construction Code, and that I am responsible for scheduling all necessary inspections.

Licensee Signature _____

All contractor registration forms must be accompanied by a copy of your contractor's license and driver's license

Roof Loading Data Sheet

Authority: Act 230 PA 1972, as amended

Completion: Completed prior to application for plan review and building permit. This form is a voluntary form used to assist in the permit approval process.

Jurisdictional information should be included in this space

Applicant's Name:		Date:
Applicant's Address:		Permit Number:
City:	State:	Zip:
Applicant's Signature:		
Job Location:		
Address:		
Township/Village/City:		County:

THIS FORM SHOULD BE COMPLETED BY THE PERMIT APPLICANT, OR DESIGN PROFESSIONAL FOR C_s, C_t, AND I, PLACE AN "X" IN THE APPROPRIATE BOX THAT BEST DESCRIBES THE STRUCTURE.

Ground Exposure, P_g = _____ From Figure R301.2(5) MRC or Figure 1608.2 MBC

Exposure		Exposure Factor C _e			
		Fully Exposed ¹	Partially Exposed ²	Sheltered ³	
A	Large city center with at least 1/2 the buildings exceeding 70 ft. in height.	N/A		1.3	
B	Urban and suburban areas, wooded areas or other terrain with closely spaced objects having the size of single-family dwellings or larger.	0.9	1	1.2	
C	Open terrain with scattered obstructions having heights less than 30 ft. (flat open country)	0.9	1	N/A	
D	Flat unobstructed areas exposed to wind flowing over open water for a distance of at least 1 mile. (i.e. Great Lakes.)	0.8	0.9	N/A	

¹Fully Exposed: Roofs exposed on all sides with no shelter by terrain, higher structures, or trees.

²Partially Exposed: All roofs except those designated as "fully exposed" or "sheltered."

³Sheltered: Roofs located tight among conifers that qualify as obstructions.

Thermal Factor C_t

Thermal Condition ⁴	C _t
All structures except as listed below	1
Structures kept just above freezing and those with cold, ventilated roofs with an R factor of 25 or greater between the ventilated and heated spaces, such as attics	1.1
Unheated structures and those intentionally kept below freezing, such as seasonal building or storage buildings	1.2
Continuously heated greenhouse with a roof R-Value less than 2 and having an interior temperature maintained at about 50 degrees 3 ft above the floor during winter months and a temperature alarm system or an attendant to warn of a heating failure.	0.85

⁴These conditions shall be representative of the anticipated conditions during winter months for the life of the structure

Importance Factor

Category	I
I Building and other structures representing low hazard to human life, i.e.: Agricultural, Temporary, and Minor Storage Facilities.	0.8
II All buildings except those listed in Categories III and IV.	1
III Building and other structures representing substantial hazard to human life in the event of failure.	1.1
IV Buildings and other structures designated as essential facilities.	1.2

Attic Live Load

Entire Attic	Y/N
Specific Areas (if yes, list areas below)	Y/N
List Rooms:	

ROOF DESIGN

Issue

With the adoption of the Michigan Building Code (MBC) and Michigan Residential Code (MRC) in 2001, several questions have been raised regarding the application of the code provisions relating to roof snow loads.

In previous editions of the codes in effect in Michigan, the codes set forth specific requirements for roof loading. However, with the adoption of the MRC, some confusion has been raised regarding the methodology of determining roof loads for one- and two-family dwellings regulated by the MRC. In a number of instances, the design of roof truss systems has not reflected the dynamics of the site at which the system is installed. The MBC requires consideration for such items as exposure, thermal factors, and importance factors. While the MRC does not specifically identify these items as design considerations, the code requires compliance in engineered systems with accepted engineering practices.

To clarify this situation, responses to two questions are posed to offer clarification and guidance in the application of the Michigan Building Code and the Michigan Residential Code. The first question involves the application of loading criteria for snow loads. The second involves exposure factors.

It is the intent of this Technical Bulletin to provide guidance in the application of the code and to provide a means for local code officials to review the design to determine compliance with the applicable code provisions.

Discussion

The Michigan Building Code references ASCE 7 – 98, Minimum Design Loads for Buildings and Other Structures, to determine the applicable loading criteria for roof structures. Section 1608.2 of the code provides for ground snow loads.

The Michigan Residential Code, while not directly referencing ASCE 7, can be interpreted that the standards for truss designs are based upon the criteria contained in this document. Section R801.2 of the MRC provides:

“Roof and ceiling construction shall be capable of accommodating all loads imposed according to Section R301 and of transmitting the resulting loads to the supporting structural elements.”

Section R802.2 provides:

“Roof ceilings shall be designed and constructed in accordance with the provisions of this chapter and Figures R606.10(1), R606.10(2) and R606.10(3) or

CROSS SECTION DETAILS:

(Fill out only items that apply to your project.)

ROOF-CEILING CONSTRUCTION

- Ridge board _____
- Rafters 2X____, ____oc (on center)
- Ceiling joist 2X____, ____oc
- Eng. Rafters_____, ____oc
- Eng. Trusses_____, ____oc
- Roof sheathing_____
- Fascia board_____
- Ice shield_____

- Felt paper_____
- Roof covering_____

WALL CONSTRUCTION

- Double top plate 2X____
- Bottom plate 2x____
- 2X____ wall studs, ____oc
- Headers__X____, Eng. beams_____
- Wall sheathing_____
- Eng. walls_____
- House wrap_____

FLOOR CONSTRUCTION

- 2X____ floor joist, ____oc
- Eng. floor_____, ____oc
- Floor sheathing_____
- Beams / Girders_____
- Sill plate 2X____
- Sill plate anchors:
1/2" bolts____, ____oc
eng. straps____, installed per man. spec.

- Concrete slab_____
- Vapor retarder_____

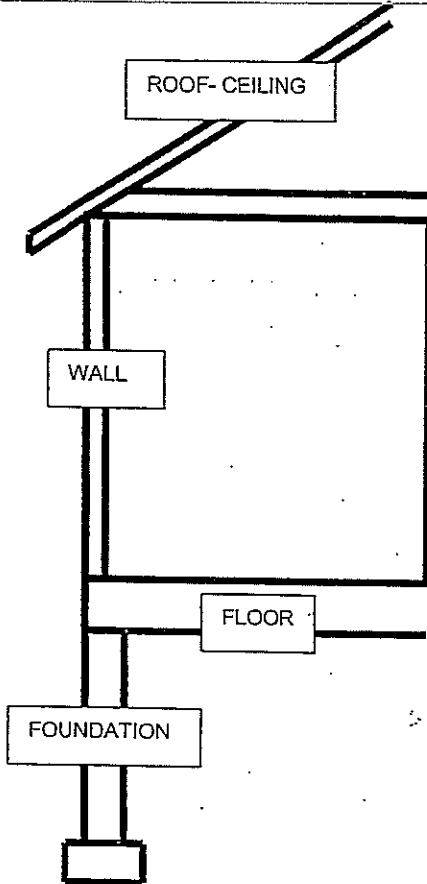
FOUNDATION

- Foundation walls:
wood framed__ Design Required
masonry__ (height____ thickness____)
concrete__ (height____ thickness____)
insulating (ICF)__ (height____ thickness____)
post / columns__ (____X____, ____oc)
- Footing: (Minimum 42" from bottom to final grade.)
trench__ (width____ depth____)
form / rail__ (depth____ width____)
post / pier__ (diameter____ depth____, ____oc)
- Dampproofing__ Waterproofing__
- Foundation drainage__ type_____

EXTERIOR COVERINGS

- Fascia_____
- Soffit_____
- Siding_____
- Veneer_____

SHIAWASSEE COUNTY BUILDING DEPARTMENT



Job address _____

Township_ City_ Village_

Name _____

Phone number _____

Type of work _____

SHIAWASSEE COUNTY BUILDING DEPARTMENT

ENERGY CODE COMPLIANCE FORM PRESCRIPTIVE METHOD

Building Component Minimum Required Insulation R Value (R13)
(Walls: Top of wall to top of foundation, including rim joist)

Window and door area (Fenestration openings)

Calculate % of windows and doors compared to total area:

Total wall area (Top of wall to finish grade) = _____ square feet

Total window and door area = _____ square feet

Window and door area divided by wall area = _____ % (Percent)

For 0% to 15% use (R1.9) windows _____

For 16% to 20% use (R2.5) windows _____

(If over 20% the Prescriptive Method can not be used.)

Roof / Ceiling Insulation

Calculate % of skylight opening compared to total roof (ceiling area):

Total Roof (Ceiling Area) = _____ square feet

Total Skylight Area = _____ square feet

Skylight area divided by roof / ceiling area = _____ % (Percent)

For 0% to 10% use (R30) insulation in roof area ceiling.

Floors over unconditioned spaces and exterior overhangs. (R21)

Slab on grade floors and its supporting foundation:

Non heated space (R5)

Heated space (R10)

Crawl space walls (R5)

Finished lower level (basement) walls (R5)

Exposed basement walls (more than 7% of gross wall area) (R5)

Total non heated exposed wall = _____ square feet

Total exposed wall area of house = _____ square feet

Non heated wall area divided by total wall area, times 100 = _____ % (Percent) of
non insulated wall (to be less than 7%)

Job address _____

Township__ City__ Village__

Applicant Signature _____ Date _____

This form shall be filled out completely before approval is given.

Building & Trade Permits And Inspections

Shiawassee County Building Department Main Number:

989-743-2396

Inspector:

Dave Chrenka, Building Inspector: 989-743-2396

Housing Rehabilitation Program:

Lindsay Hager: 231-225-2619

lhager@hagerconsulting.biz

Planning & Zoning

Paula Willoughby, Zoning Administrator: 517-651-5374

**Peter J. Preston, Community Planning & Zoning Consultant:
517-256-0566**

APPENDIX G

SWIMMING POOLS, SPAS AND HOT TUBS

SECTION AG101 GENERAL

AG101.1 General. The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the lot of a one- and two-family dwelling.

SECTION AG102 DEFINITIONS

AG102.1 General. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling or a one-family townhouse not more than three stories in height.

SPA, NONPORTABLE. See "Swimming pool."

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating equipment are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 24 inches (610 mm) deep. This includes in-ground, aboveground and on-ground swimming pools, hot tubs and spas.

SWIMMING POOL, INDOOR. A swimming pool which is totally-contained within a structure and surrounded on all four sides by walls of said structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION AG103 SWIMMING POOLS

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG108.

AG103.2 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG108.

SECTION AG104 SPAS AND HOT TUBS

AG104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AG108.

AG104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG108.

SECTION AG105 BARRIER REQUIREMENTS

AG105.1 Application. The provisions of this chapter shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

AG105.2 Outdoor swimming pool: An outdoor swimming pool, including an in-ground, aboveground or on-ground pool, hot tub or spa shall be provided with a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an aboveground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the hori-

**SECTION AG107
ABBREVIATIONS**

AG107.1 General.

ANSI—American National Standards Institute
11 West 42nd Street, New York, NY 10036

ASTM—ASTM International
100 Barr Harbor Drive, West Conshohocken, PA 19428

NSPI—National Spa and Pool Institute
2111 Eisenhower Avenue, Alexandria, VA 22314

**SECTION AG108
STANDARDS**

AG108.1 General.

ANSI/NSPI

ANSI/NSPI-3-99 Standard for Permanently Installed
Residential Spas AG104.1

ANSI/NSPI-4-99 Standard for Above-ground/On-ground
Residential Swimming Pools AG103.2

ANSI/NSPI-5-99 Standard for Residential In-ground
Swimming Pools AG103.1

ANSI/NSPI-6-99 Standard for Residential
Portable Spas AG104.2

ANSI/ASME A112.19.8M-1987 Suction
Fittings for Use in Swimming Pools,
Wading Pools, Spas; Hot Tubs and
Whirlpool Bathing Appliances AG106.2

ASTM

ASTM F 1346-91 (1996) Performance Specification
for Safety Covers and Labeling Requirements for
All Covers for Swimming Pools, Spas and
Hot Tubs AG105.2, AG105.5

ASME

ASME A112.19.17 Manufacturers Safety Vacuum
Release Systems (SVRS) for Residential and
Commercial Swimming Pool, Spa, Hot Tub and
Wading Pool AG106.3

Swimming Pool Barriers

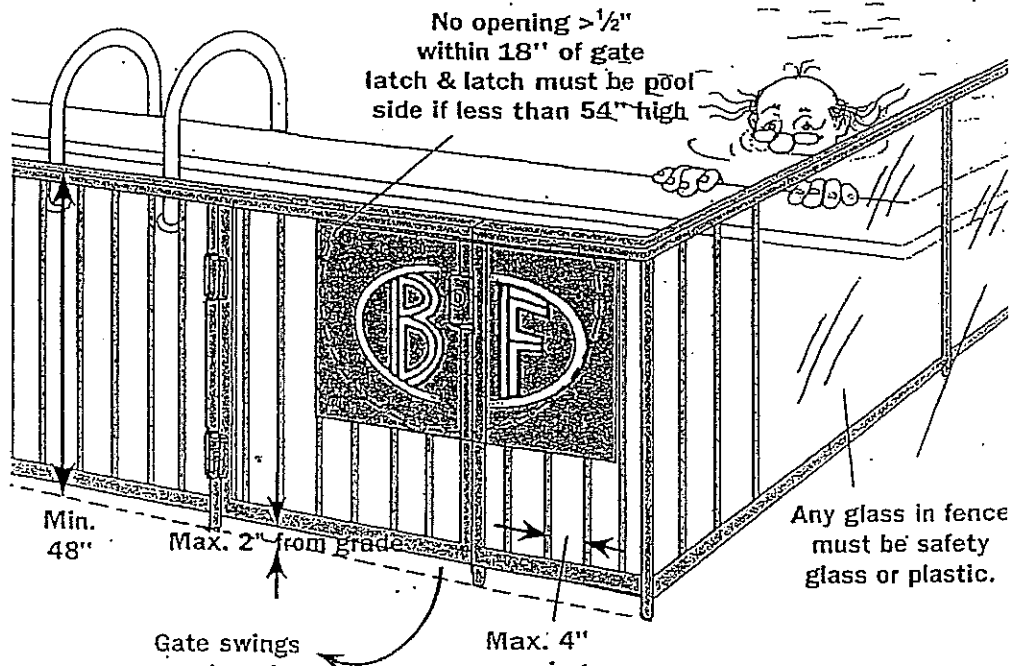
The Consumer Product Safety Commission has reported that drowning is the leading cause of accidental death in and around the home for children under the age of 5 years in California, Arizona, and Florida. Seventy five percent of the children involved in swimming pool submersion or drowning accidents are between 1 and 3 years old. Victims had been missing for five minutes or less when they were found in the pool drowned or submerged. Other bodies of water, such as fish ponds and fountains, have the same potential drowning hazards as pools.

General

IRC

- Applies to all pools or spas >24in. deep[AG102]
- Fence min. 48in. highF80[AG105.2]
- Gap under fence max 2in. above grade {4in. if concrete}F-xx [AG105.2] {421.1#1}
- Bottom max 4in. above pool structure when mounted on top of pool[AG105.2]
- Max opening size must prevent passage of 4in. sphereF80[AG105.2]
- Difficult to climb over (no ladder type rails)F80[AG105.2]
- Chain link max. 1¼sq.in. mesh unless filled with slats [AG105.2]
- Gate lockable, self-closing, open away from pool ..F80[AG105.2]
- If latch <54in. high: Must be poolside & min. 3in. below top[AG105.2]
- No openings >½in. within 18in. of latch[AG105.2]
- Doors & screens with direct pool access req. alarm audible for 30 seconds throughout house[AG105.2]
- Alarm control min. 54in. high, must reset automatically EXC[AG105.2]
- Doors from interior w/self close and release ≥54in. above floor[AG105.2X1]
- If above ground pool ladder or steps must be lockable or barrier.[AG105.2]
- Safety glazing req'd for glass enclosing poolF80[308.4]

Fig. 80 • Pool Barriers



SECTION 3106 MARQUEES

3106.1 General. Marquees shall comply with this section and other applicable sections of this code.

3106.2 Thickness. The maximum height or thickness of a marquee measured vertically from its lowest to its highest point shall not exceed 3 feet (914 mm) where the marquee projects more than two-thirds of the distance from the property line to the curb line, and shall not exceed 9 feet (2743 mm) where the marquee is less than two-thirds of the distance from the property line to the curb line.

3106.3 Roof construction. Where the roof or any part thereof is a skylight, the skylight shall comply with the requirements of Chapter 24. Every roof and skylight of a marquee shall be sloped to downspouts that shall conduct any drainage from the marquee in such a manner so as not to spill over the sidewalk.

3106.4 Location prohibited. Every marquee shall be so located as not to interfere with the operation of any exterior standpipe, and such that the marquee does not obstruct the clear passage of stairways or exit discharge from the building or the installation or maintenance of street lighting.

3106.5 Construction. A marquee shall be supported entirely from the building and constructed of noncombustible materials. Marquees shall be designed as required in Chapter 16. Structural members shall be protected to prevent deterioration.

SECTION 3107 SIGNS

3107.1 General. Signs shall be designed, constructed and maintained in accordance with this code.

SECTION 3108 RADIO AND TELEVISION TOWERS

3108.1 General. Subject to the provisions of Chapter 16 and the requirements of Chapter 15 governing the fire-resistance ratings of buildings for the support of roof structures, radio and television towers shall be designed and constructed as herein provided.

3108.2 Location and access. Towers shall be located and equipped with step bolts and ladders so as to provide ready access for inspection purposes. Guy wires or other accessories shall not cross or encroach upon any street or other public space, or over above-ground electric utility lines, or encroach upon any privately owned property without written consent of the owner of the encroached-upon property, space or above-ground electric utility lines.

3108.3 Construction. Towers shall be constructed of approved corrosion-resistant noncombustible material. The minimum type of construction of isolated radio towers not more than 100 feet (30 480 mm) in height shall be Type IIB.

3108.4 Loads. Towers shall be designed to resist wind loads in accordance with TIA/EIA-222. Consideration shall be given to conditions involving wind load on ice-covered sections in localities subject to sustained freezing temperatures.

3108.4.1 Dead load. Towers shall be designed for the dead load plus the ice load in regions where ice formation occurs.

3108.4.2 Wind load. Adequate foundations and anchorage shall be provided to resist two times the calculated wind load.

3108.5 Grounding. Towers shall be permanently and effectively grounded.

SECTION 3109 SWIMMING POOL ENCLOSURES AND SAFETY DEVICES

3109.1 General. Swimming pools shall comply with the requirements of this section and other applicable sections of this code.

3109.2 Definition. The following word and term shall, for the purposes of this section and as used elsewhere in this code, have the meaning shown herein.

SWIMMING POOLS. Any structure intended for swimming, recreational bathing or wading that contains water over 24 inches (610 mm) deep. This includes in-ground, above-ground and on-ground pools; hot tubs; spas and fixed-in-place wading pools.

3109.3 Public swimming pools. Public swimming pools shall be completely enclosed by a fence at least 4 feet (1290 mm) in height or a screen enclosure. Openings in the fence shall not permit the passage of a 4-inch-diameter (102 mm) sphere. The fence or screen enclosure shall be equipped with self-closing and self-latching gates.

3109.4 Residential swimming pools. Residential swimming pools shall comply with Sections 3109.4.1 through 3109.4.3.

Exception: A swimming pool with a power safety cover or a spa with a safety cover complying with ASTM F 1346.

3109.4.1 Barrier height and clearances. The top of the barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier that faces away from the swimming pool. Where the top of the pool structure is above grade, the barrier is authorized to be at ground level or mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).

3109.4.1.1 Openings. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.

3109.4.1.2 Solid barrier surfaces. Solid barriers which do not have openings shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.

3109.4.1.3 Closely spaced horizontal members. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical mem-

bers shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

3109.4.1.4 Widely spaced horizontal members. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

3109.4.1.5 Chain link dimensions. Maximum mesh size for chain link fences shall be a 2.25 inch square (57 mm square) unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to no more than 1.75 inches (44 mm).

3109.4.1.6 Diagonal members. Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be no more than 1.75 inches (44 mm).

3109.4.1.7 Gates. Access gates shall comply with the requirements of Sections 3109.4.1.1 through 3109.4.1.6 and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate, and the gate and barrier shall have no opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

3109.4.1.8 Dwelling wall as a barrier. Where a wall of a dwelling serves as part of the barrier, one of the following shall apply:

1. Doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and its screen are opened. The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm shall be equipped with a manual means to temporarily deactivate the alarm for a single opening. Such deactivation shall last no more than 15 seconds. The deactivation switch shall be located at least 54 inches (1372 mm) above the threshold of the door.
2. The pool shall be equipped with a power safety cover which complies with ASTM F 1346.
3. Other means of protection, such as self-closing doors with self-latching devices, which are approved by the administrative authority, shall be ac-

cepted so long as the degree of protection afforded is not less than the protection afforded by Section 3109.4.1.8, Item 1 or 2.

3109.4.1.9 Pool structure as barrier. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then the ladder or steps either shall be capable of being secured, locked or removed to prevent access, or the ladder or steps shall be surrounded by a barrier which meets the requirements of Sections 3109.4.1.1 through 3109.4.1.8. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

3109.4.2 Indoor swimming pools. Walls surrounding indoor swimming pools shall not be required to comply with Section 3109.4.1.8.

3109.4.3 Prohibited locations. Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

3109.5 Entrapment avoidance. Where the suction inlet system, such as an automatic cleaning system, is a vacuum cleaner system which has a single suction inlet, or multiple suction inlets which can be isolated by valves, each suction inlet shall protect against user entrapment by an approved antivortex cover, a 12-inch by 12-inch (304 mm by 304 mm) or larger grate, or other approved means.

In addition, all pools and spas shall be equipped with an alternative backup system which shall provide vacuum relief should grate covers be missing. Alternative vacuum relief devices shall include one of the following:

1. Approved vacuum release system.
2. Approved vent piping.
3. Other approved devices or means.

SCHEDULE OF REGULATIONS

STANDARDS	RO	RL	RL-1	RM	RH	RT	C-1	I-1
Minimum lot area in square feet	43,560	15,000	12,000	8,000	5,000	6,000	None	None
Minimum lot width in feet measured at the front setback line	200	100	80	90	100	50	None	None
Maximum lot coverage as a % of lot area	25%	25%	25%	25%	30%	30%	None	None
Minimum floor area of principal building in square feet	800	1,000	1,000	800	600	720	None	None
Minimum front yard setback as measured from the street right of way line in feet	30	25	25	25	25	25	None	30
Minimum side yard set back as measured from the side lot line in feet	20	10	10	7	7	7	None, except when adjacent to a residential district	None, except when adjacent to a residential district
Minimum rear yard setback as measured from rear lot line in feet	35	35	35	35	35	25	20	100
Maximum Height in feet	35	35	35	35	35	15	35	Same as actual distance from lot lines