

# Post-World War II Residential Architecture in Maine

## *A Guide for Surveyors*



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# **Post World War II Residential Architecture in Maine: A Guide for Surveyors**

## **Acknowledgements**

The Post World War II Residential Architecture survey was conducted between June 2008 and June 2009 by the team of:

Roxanne Eflin, Preservation Planning Associates of Buxton, Maine

Barba + Wheelock, Architecture Preservation + Design of Portland, Maine

- Nancy L. Barba, AIA, LEED AP
- Margaret Gaertner
- Rebecca Bagley, Intern Architect
- Stephanie Carver, Project Volunteer
- Natalie Weinberger, Preservation Intern

Amy Cole Ives, Sutherland Conservation and Consulting of Hallowell, Maine

Sara K. Martin, Architectural Historian of Bangor, Maine. Sara Martin also prepared the final survey report for the Maine Historic Preservation Commission.

Final report assistance provided by Rochelle Bohm, Preservation Consultant, Bangor

The Post World War II Residential Architecture in Maine: A Guide for Surveyors was prepared by Margaret Gaertner, incorporating the findings of the survey work and photography previously completed by the team. The introduction was written by Roxanne Eflin and Nancy Barba.

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## Introduction

### Background

The national post-World War II housing boom was a phenomenon that transformed America from a downtown-oriented pedestrian society to one reliant on the automobile. The rapid demobilization of millions of returning war veterans seeking home ownership and cushioned by the Serviceman's Readjustment Act of 1944 (the "GI Bill"), stimulated the need for new cost-effective housing units on single-family lots or in planned and platted subdivisions complete with infrastructure: paved streets, curbs, sidewalks, utility mains and electric and telephone lines.

Four other major national events affected the construction industry in Maine to varying degrees:

1. Federal mortgage legislation stimulated this boom by providing easily-obtained housing loans for the working and middle classes, insured by the Federal Housing Administration (FHA) and Veterans Administration (VA).
2. The development of the space discovery program at NASA, throughout the late 1950s and all of the 1960s (Sputnik 1957; Moon Landing 1969) and products that grew out of this research. Space exploration and product development seemed to have less impact on residential building products in Maine than commercial, though a study of architecture and building magazines of the time period may show more evidence.
3. The late 60s counter-culture revolution and back to the land response. Both the Tyree and Silverio houses (mentioned later) are part of the back to the land movement with exterior siding now predominately wood shingle and not painted like the previous generations of houses.
4. The Oil Embargo of October 1973, heralded as the beginning of the end of cheap oil. The oil embargo generated an entire new generation of houses responsive, both actively and passively, to solar gain and heat loss.

### Federal Home Building Service Plan

Although the demand for architect designed small houses was seriously curtailed during the Great Depression, American Institute of Architects-sponsored service bureaus continued to operate in a number of major cities across the United States, including Boston, where they found support from local savings and loan associations interested in ensuring that the homes they mortgaged were a sound investment. In 1938, the Federal Home Loan Bank Board, Producers Council of the National Association of Real Estate Brokers ("NAREB"), and the AIA joined together to sponsor the Federal Home Building Service Plan, a program of certification which, during the next decade, helped make home financing available to home owners who used service bureau plans and retained the services of registered architects to supervise construction. Although regionally-inspired Colonial Revival designs dominated, new forms such as the California Ranch house, appeared in the portfolios of approved architect-designed plans.

Another interesting aspect for further study is the relationship between personal spending in mortgage debt and house construction cost/ purchase price. From 1950 to 1956 alone, mortgage debt increased nationally from \$6 to \$20 billion. Matthew Silverio, son of John Silverio and colleague at the firm of Silverio-Architecture+Design, recently analyzed national trends of this relationship discovering in the year 1975 the ratio of personal income to home price was 1:3. In the year 2006 the mean income was \$77,315 (in 2006 dollars) and the mean sales price of a new home in was \$305,900 (based on numbers by the US Census Bureau) which equates to a 1:6 ratio of personal income to home price. With affluence grew the average family size from two to four children and a general desire to vacate inner city neighborhoods for the suburban "country." This may help to explain other trends in Maine residential design, including the increasing footprint of the average house and other design amenities.

## Modern Materials and New Styles

War-depleted building materials remained in short supply, requiring creative solutions to keep up with demand. This included a faster method to construct homes involving teams of semi-skilled workers specializing in a single aspect of home construction (e.g. foundation, framing, roofing, siding, etc.) Concrete slab-on-grade floors became more common, with basements becoming less prevalent, unless they were living spaces, such as with the split-level. New materials were emerging, such as particle board, now used by many post-World War II builders as a less expensive and more efficient system, though some architects preferred to retain board sheathing, with its better construction-weathering qualities. Windows in the traditionally inspired designs retained their small scale, while the modern/contemporary houses tested the limits of glazing with floor to ceiling windows, often blurring the distinction between inside and out.

Developers met the pent-up demand for single-family homes with a hearty supply of affordable new styles, including the popular Ranch, which allowed for easy customization. These homes offered consumers a modern dream house, complete with state-of-the-art features and space-age technology.

“Seeing the USA in a Chevrolet” also meant witnessing the first waves of auto-centric communities away from the city center. In Maine, the larger urban areas experienced tremendous post-War growth in concert with the rest of the country. The Portland/South Portland, Lewiston/Auburn, Augusta and Bangor suburban regions grew quickly, reflecting the robust economy. The design of an expandable two-story house with a built-in garage and additional upper-story bedroom was introduced by the Federal Housing Authority (“FHA”) in 1940. By the 1950s, garages or carports were increasingly integrated into the design of many homes.

## Architect Influences

Many of the houses surveyed seemed to draw design inspiration from the Colonial Revival period, perhaps inspired by the 1930s restoration work at Williamsburg or by a desire for the comfort of tradition. Living through a jarring change from a pre-World War II America struggling through the Great Depression, through the upheaval of War, many Americans were nostalgic for the past. These architect-designed Maine houses emulated traditional styles, despite the contrary influence of architecture periodicals of the time. While the New Canaan Five (Marcel Breuer, Landis Gores, John Johansen, Philip Johnson, and Eliot Noyes) was formulating an American brand of International Style, and architects of the Case Houses (California), were experimenting with the limitations and nature of materials, the majority of architects designing houses in Maine were not as adventuresome as their contemporaries. Note the experience of the Col. Farnum House in Brunswick, whereby the clients likely came to the architect with a plan book design to have them draft (note, not design) a slightly larger scale version of this Philadelphia architect’s plans. Perhaps the lack of risk-taking in residential design in post-WWII Maine was due to conservative clients, tethered to their long-standing tradition of houses fitting in with their context, or a practical assumption that the best functioning design is tried-and-true in response to the weather and other factors. Or perhaps it was due to architects careful not to offend their likely client base with designs that would not be well-received. When the Payson house was built in Falmouth neighbors not only were angered by the demolition of the summer house on who’s site it stood, but criticized it for looking like a trailer.

## **Survey and Field Guide Project Goals**

As awareness and appreciation for post-World War II resources and entire neighborhoods have grown, and as these resources have come under increasing threat of teardowns, incongruent additions, and rezoning of gateway areas or entire neighborhoods, many people are asking how to preserve and protect them. While these preservation issues affect these resources in general, the impetus for this project grew out of the more utilitarian need to develop a field guide and materials/design guide in order to be able to evaluate these resources against the National Register of Historic Places criteria (especially in regard to Section 106 review and compliance projects.) To date, survey professionals in Maine have generally been unfamiliar with the standardized nomenclature used to identify the styles that were popular in the state after World War II and have also found it challenging to evaluate their relative integrity and significance as required when determining National Register eligibility.

In response, the Maine Historic Preservation Commission (MHPC) took action in 2008 to address the growing concern as more post-World War II resources were reaching the 50 year mark and becoming potentially eligible for listing in the National Register of Historic Places. The MHPC contracted with Preservation Planning Associates to undertake a targeted reconnaissance level survey of residential properties constructed during 1946-1975 in Maine, with a portion of the survey dedicated to architect-designed homes. The purpose was to produce a baseline for identification and classification of post-World War II residential resources through evaluation of style and materials and to produce a Field Guide for professionals specific to Maine architecture of this period.

## **Survey Project and Methodology**

The communities of Auburn, Augusta, Cape Elizabeth, Bangor, Lewiston, Old Town, Portland and South Portland were selectively surveyed, resulting in 260 individually recorded resources divided as follows among three decades: 1945 to 1954, 1955 to 1964 and 1965 to 1975. This number includes 20 architect-designed homes by Breuer, Chermayoff, Bruck, Armitage, Tarbell, Wadsworth, Boston, Mercer & Weatherill, Royal Barry Wills, Zelz, Carter and Woodruff, Glass, and Silverio. These houses illustrate a wide range of styles from Gropius and International Style in the late 40s/early 50s to Colonial Revival and variations on the gabled roof or shed form throughout to a culmination in the 70s with geometry-inspired plans and forms.

The project required surveying target properties with 1) a high degree of material and design integrity and 2) verifiable dates of construction. It also stipulated that the project should focus on a broad range of economic levels and avoid planned suburban developments or neighborhoods featuring a limited selection of housing styles designed or constructed by a single developer or architect.

Most municipalities in Maine did not issue building permits during this time, and those that did rarely retained copies – the fortunate exceptions being Portland and South Portland. State regulations effective in the mid-1940s only required that municipalities over 2,000 in population retain a building inspector/Code Enforcement Officer, whose job was generally to inspect each building during construction to guarantee chimneys were made safe. Planning boards began in the 1970s to review subdivision plat maps, not the buildings themselves. Auburn and Lewiston, for example, reported that locating early building permit and water/sewer tap records, if they existed at all, would require extensive research that they were unable to provide. Assessor records, therefore, supplemented by the occasional oral history through a conversation with an original property owner or resident neighbor, proved invaluable in helping to determine construction dates.

Architectural style determination proved challenging at times, and required a form by form, photo by photo analysis for categorization. According to the National Alliance for Preservation Commissions "Many if not most, post-War architectural styles are not included in most survey manuals and survey forms; or when they are included, regional differences often mean that the same resource would be called by different names in different part of the country." The team, in consultation with the MHPC staff member Christi Mitchell, refined the appropriate residential styles names to be used in describing houses in Maine during this period: Minimal Traditional, Ranch, Raised Ranch, Split Level, Colonial Revival, Neo-Colonial, Modern/Contemporary, Vernacular and Other. A previously undefined set of houses with readily identifiable and repeated characteristics - several common subsets and a sliding scale of stylistic sophistication from designed to vernacular - has been termed Minimal Modern.

## **Observed Trends**

The span of three decades brought very different approaches with each decade. Between 1946 and 1955 many houses followed suit with the VA standards, keeping their footprints small and details restrained. Even the architect-designed houses maintained one-story houses with small footprints (such as the 1600 square feet Isaacson House, and the equally small Payson House). Decade 1956 to 1965 brought slightly larger footprint houses, along with two story forms. For decade 1966 to 1975 the plans grew more complex, but with simple geometric sense of order. The Silverio house in Lincolnville Center reached three floors in its compact, yet intricate design, and the Smart-Hallam house in York stretched out along the ocean with its duplex plan.

Material use and detail followed a similar trajectory. Houses built in the first decade employed materials simply, builders and architects alike continued with traditional materials, but readily embraced innovative products as they became available in the marketplace.

## **Conclusion**

It is the intention of the project team that this Field Guide serve as a tool for the surveyor in helping understand, appreciate, identify, classify, protect and preserve the significant collection of Post World War II residential resources that are associated with a significant historic period of prosperity in our nation. The project team wishes to stress that this Field Guide is not an exhaustive analytical tool intended for use as a tool in planning efforts. Rather, the focus of this project was the identification and classification of post World War II residential resources through evaluation of style and materials specific for the cultural resource management professional. There are still gaps in understanding all the nuances of residential postwar construction in Maine and consequently further research and survey work is needed to better understand the resources of this time period.

Resources from this time period are at particular peril given current and projected development and expansion throughout many communities and the impression that these resources are either not historic or they are expendable. Additional advocacy and educational efforts are needed for municipal planners, historic preservation commissions and residents in order to identify and protect these resources. The hope is that, through greater understanding and appreciation of these residential styles and their place in Maine's architectural and social history, they will grow in importance in our collective understanding of twentieth century history. As these post-World War II resources reach maturity, our appreciation for them increases, as does our need for proper stewardship and comprehensive planning to insure their future.

## Architect-designed houses in Maine

1946 to 1975

by: Nancy L. Barba, AIA

Of the 20 houses surveyed that were architect designed we only touched on the patterns for this time period. One of the few books written about residential design in Maine in this time period is Maine Forms of American Architecture, DownEast Magazine, edited by Deborah Thompson, 1975. The quotes below are taken from this book.

The scope of the survey focused on four major urban areas, where, perhaps by nature, the houses tended to be no-nonsense, straightforward, economical solutions, intended for everyday habitation and meant to appear as practical as their owners. Three of the properties surveyed are coastal waterfront, but have been inhabited year-round from their inception. The houses surveyed were not reflective of the trend of seasonal second homes along the coast where cost was less of a driver and the architects may have been more at liberty to experiment.

While a few architects in the state had studied at the Harvard Graduate School of Design (which Walter Gropius imbued with a strong Miesian design dogma) few intellectualized their modern designs. Gridley Barrows reportedly arrived at Harriman Associates in Auburn later in the decade. Surprisingly, there are only four known houses in Maine built in the International Style (Potter, Isaacson, Payson, and, reportedly, another Serge Chermayoff house in Ogunquit or Kennebunk). The rest were derivative of other work throughout the country. Royal Barry Wills was and continues to this day to produce beautifully detailed colonial and other revival style houses. Eaton Tarbell, Wilbur Ingalls, Webster Baldwin, et. al., and Alonzo Harriman Associates, were better known for their public work, undertaking occasional house commissions and renovations. Some Maine architects found more opportunity to try out new ideas in their public commissions, following national architectural trends. Notable examples include Eaton Tarbell's Bangor Auditorium, where expressing the technological capabilities of the concrete structure was the over-arching motif for the design.

In the drawings for the **Colonel and Mrs. Francis H. Farnum house** the emulation of traditional styles is taken one step further. A comparison between the plan book drawings in the project file at Maine Historical Society and the drawings by Wadsworth, Boston, point to an owner intent on executing plans as seen in the plan book by a Philadelphia architect (and saving money?). The new plan is merely a re-sizing of rooms and some minor modifications.

Frank Lloyd Wright's "later, more natural work is apparent in the passages of **Eaton W. Tarbell's house for Russell Peters in Bangor (1959)**." This house is attributed to Cooper Milliken, an architect with Tarbell's firm at the time. "The residential work of Cooper Milliken is singularly poetic, disregarding conventional forms, Milliken brings a light spirituality to his houses that is the antithesis of the raw pine work ... consistency and restraint give his work a fine harmony."



**Selma Potter and family, 84 Stonybrook Road, Cape Elizabeth,** Interviewed in person (2007)

“The Potter House (1949) is the first Maine structure to be designed in the International Style without qualification of any kind.” Arnold and Selma Potter moved from a four-square into smaller quarters designed for them by internationally known, Marcel Breuer. Although the house has been added onto (a bedroom wing) and the materials stripped back to bare wood from its original coated surface, the house’s form and articulation remains intact. Breuer designed a butterfly roof, his own homage to the cape form. He employed native New England materials, with carefully construed stone walls. A screened porch juts out over the drive to allow for air flow. Today, the screens are closed in with glass, losing some of the original intent.

**Philip Isaacson, 2 Benson Street, Lewiston,** Interviewed by phone and in person

In 1959, when Philip Isaacson set out to build a modern home (1960) he traveled to Cambridge and New Canaan, Connecticut to speak with leading architects in the modern movement (Eliot Noyes, Jose Sert, John Johanson) and educate himself in the academic approach to modernism. He eventually selected F. Frederick Bruck, an architect who taught at the Harvard Graduate School of Design (GSD) and had previously worked for The Architect’s Collaborative (TAC, Walter Gropius’s firm.) Bruck designed the Isaacson house at a time when he and his wife, a landscape architect also trained at the GSD, were on their own. Unlike many of the houses portrayed in the periodicals of the time, the Isaacson house was built on a modest budget of \$25,000 (\$32,000 in the end) as a year-round home. Isaacson was in his late 20s, working as a young lawyer and determined to build a home that was “intellectually” modern. He and Bruck looked to Philip Johnson’s own courtyard house on Brattle Street in Cambridge for inspiration. Bruck created this on an in-town green lot not far from Bates College.

The Isaacson house is a simple floor plan, essentially comprised of a front and rear outside courtyard and a plan with 3 rooms wide by 3 deep. The entire first floor is lifted up from the driveway elevation on a knoll and is connected from the street to the front courtyard by a straight, stone-laid path that culminates in a floating, open riser, slab tread stair. The geometric landscape beds sit to either side of the centrally-located entry. The flat-roofed, one story, rectilinear form sits squarely along the knoll, the long leg of the rectangle parallel to the ground. As viewed from the street the house’s courtyard wall appears two dimensional, like a wall, the only clue to its encompassment of a courtyard is the view through an open-louvered door of the glass wall of the house beyond. The courtyard walls, finished with painted redwood siding inside and out, form a frame for outside living, yet are punctuated with vertical wood louvers at either end of the side, short wall of the courtyard. The house has a full basement.

Full-height solid and louvered doors flank full-height picture windows and are the only operable openings for air circulation throughout the house. The nautical hardware, satin chrome, is custom made to latch the wood doors.

**Robert (Bob) Armitage, 18 Reef Road, Cape Elizabeth,** Interviewed by phone (twice)

Although Bob practiced with his father, William, and mother as office manager, when speaking of the work of Armitage Architects, Bob refers mostly to his father's body of work. His father's early work (prior to the study period) is rife with beautiful millwork, which William lovingly drew in great detail. One of William's first jobs was working in a cabinet making company so details came easily to him. Work during the study period includes VA work, where strict design requirements forced simple drawings and a push for expediency. In the early 1950s Bob can remember clients standing in their office, waiting for his father to finish the drawings so the Owner could take them immediately for permitting and construction. William also worked for a number of contractors, such as Clinton McCleod, who would build a handful of houses on spec. Later, like all cold war architects, work for the government picked up and generated much work for Maine. Firms that had been exclusively residential in the late 1940s found themselves growing more and more busy with work at Limestone Air Force Base and other military institutions and as a result did fewer houses. In addition, schools were experiencing a tremendous growth spurt to keep pace with the Baby Boom.

In 1964, Bob designed his own home on a site in the Shore Acres subdivision. The main door faces Reef Road, while the main low-pitched gabled roof faces the ocean view across a street and marsh. Bob employed commercial construction materials and methods including concrete double-t structural floor for the house. A small deck at the second floor protrudes out towards the view. The original roof was built-up with white marble chips. Strong winds took their toll in this exposed location and the roof has since been replaced with a rubber membrane.

**Michael Payson, 40 Thornhurst, Falmouth Foreside,** Interviewed by phone and in person

Michael went to school with Chermayoff's son, Ivan, at Andover Academy, which is how he became acquainted with and selected Serge Chermayoff to design his home on the water in Falmouth. Chermayoff was well known as a professor at the Harvard Graduate School of Design, author of books on architecture, and according to Payson, had only a few architectural commissions in the United States and Great Britain. The house was listed on the National Register of Historic Places in 2005 for its association with the architect. In about 1972, Peter Chermayoff, Serge's son, designed an addition to the house.

Similar to the Isaacson house, the architects were both associated with Harvard Graduate School of Design (GSD) and Walter Gropius. The Payson house, too, sits on a knoll, the site of the former late-19th century estate house. This pristine, coastal point of land provides a spectacular setting for the house. Unlike some of the precedents this house emulates, the house does not command the site; as one retreats to the land's edge, the house fades into the tree line in deference to the land.

Louvered screen doors over solid doors provide the primary ventilation, with awning windows over each to provide more. There are 18 exterior doors to the house, though only a few are meant to be passable openings. Full height glass walls tuck to one side of each room, connecting the interior and exterior views. From the outside, the louvers look like a modern interpretation of shutters to the grand picture windows.

One vestige of the former estate is a fieldstone retaining wall (the foundation wall of the former dining room) that encompasses a brick terrace with a bow front on the far end.

The foundation is concrete, set back about 2 feet from the cantilevered edge of the house. The materials are simply detailed, with no roof overhang. The I-shape of the floor plan creates a welcoming court on the driveway arrival side.

**Whited Residence, 45 Heather, Portland**, interview by phone, email and in person with Lisa Whited, daughter of the original owners, and current owner. Built in 1964, the Whited Residence sits in a quiet suburban neighborhood off Allen Avenue. Its t-shaped plan has the main door in the corner, entering on a mid-level. From this level to the left is the living room, set apart from the rest of the living areas. To the right, up a set of stairs is the bedroom wing and below, kitchen, dining/family area. The exterior materials were originally Texture 111 siding, rough-sawn red cedar with a heavy body stain (brown), though today the T-111 has been replaced by Hardieplank, cementitious siding. The gable end to the left (that contains the living room) is constructed of masonry. A large, triangular-shaped window frames the end wall chimney on one side and ivy covers the wall on the other side.

**Smart-Hallam House, 30 Surf Point Road, York**, interviewed in person. When Mary-Leigh Smart and Beverly Hallam set out to find an architect for their duplex on Surf Point, Carter and Woodruff of Nashua, New Hampshire were recommended to them as architects who could design a flat roof that wouldn't leak. (It leaked.) The architect designed a unique home (1973), connected by a central tiled-floor entry, the house's two wings offer private, duplex living quarters to the two owners.

The house is one and one-half story, the half story housing loft space overlooking each of the living wings. The views of the ocean are framed by large glass windows. Board formed concrete creates the foundation, retaining wall, and chimney. It was under construction in October 1973 and continued along with its plans without response to the oil embargo.

**Special mention is given to the Dr. Philip C. Beam house at 41 Spring Street, Brunswick.**

Philip C. Beam was the Director of Bowdoin College's Walker Art Museum. Although Dr. Beam was not an architect, his house embodies the rigor many architects bring to their work and is more closely aligned with architect-designed homes than the builder home. In 1949 Dr. Beam followed the results of a nationwide competition for solar houses. As a starting point, he selected the house designed for Washington State for its comparable solar orientation to Maine. He consulted a professor at Bowdoin who was well known for a ground breaking studies in heat pumps and was led to M.I.T. professors skilled in solar design to assist him.

The current owner shared plans, the solar competition book, copies of newspaper articles during construction and after, and a copy of Philip Beam's detailed notes on the construction – a treasure trove for insight into the process of design and construction.

The house has been altered slightly, changing picture windows to sliders and a sensitively designed addition on the far end of living space and a two-story screened porch. On the approach side a small storage shed sits to one side so as not to change the original form of the one-car appended garage.

A stunning open grid light baffle protrudes out over the main façade, blocking summer sun from entering the windows on June 21 (current owner reported).

### **Further study**

Some other trends in architectural practice are worth a brief mention, though outside the scope of this study. Maine during the study period had no architecture school in state. The closest geographically were in Boston: Harvard and MIT. William Armitage, for instance, went to school at the University of New Hampshire in Durham, which at the time had an architectural engineering degree. Another interesting note would be the number of architects licensed to practice in the state in relationship to the population. A subset of that would be the number of architects with offices in Maine. In 1946, architecture was still a young profession, with limited architecture schools for training. Some of the architects in our study were Maine-based, one New Hampshire based, and four Cambridge/Boston based. The impact of architectural schools and their philosophical and aesthetic training generates similar responses to design challenges (in this study note the Gropius impact at Harvard and the work of Breuer, Bruck, and Chermayoff.)

## Using the Manual

All comments are based on the survey of residential architecture in the greater-Portland, -Bangor, -Augusta and Lewiston/Auburn areas. Terms such as “common”, “typical” or “rare” are based on analysis of the surveyed properties.

**Architectural styles and names:** Some of the architectural styles identified during our survey are included in the *Field Guide to American Houses* by McAlester. To avoid confusion for future surveyors, we have used these style names. Where trends and variants specific to Maine were noted, these are highlighted.

After the survey forms were completed and the buildings sorted by style and date, it became clear to the team that additional styles (Minimal Modern, Raised Ranch) were distinct and identifiable. These styles are not included in the McAlester *Field Guide* but are clear types which should be looked for in future surveys.

**Dates:** The dates included with each style are taken from the survey forms and are representative only of the examples surveyed. These dates reflect the years when these styles appeared in the surveyed properties; it is, of course, possible that examples of these styles might have been built a few years earlier or later. A plus sign means houses were identified that postdated the survey period. The use of “pre-” before the date indicated houses were found during the survey process that pre-date the survey period.



## Neo-Colonial (pre-1944-1973)



1955, Bangor



1956, South Portland



1956, Augusta

*This page: three Garrison examples. Note second story overhang and use of contrasting siding materials. Three bay examples were most common (see both houses, above); two or four bay examples (such as that at the left) were less common. The one-car garage is small and recessed or turned to minimize its visual impact.*

Neo-Colonial houses are informal (rather than academic) interpretations of Colonial architecture. Neo-Colonial houses are inspired by Colonial architecture, but borrow freely rather than imitate carefully. Looking to the past and borrowing small light sash, Garrison overhangs, and shutters, they also incorporate contemporary trends such as contrasting siding materials, bay windows and garages. Our survey suggests Neo-colonial was the far more popular choice in Maine, with four Neo-Colonials for every Colonial Revival.

Most Neo-Colonials are two stories tall, although some one -and-a-half story examples with dormers were found. Roof is almost always gable side, although not as steeply pitched as true Colonial-era houses were, and covered in asphalt shingles.

Within the Neo-Colonial examples, a few sub-types reappear: Garrisons, which are defined by an overhanging second story. The overhang may be embellished with pendants at the corners, or a decoratively sawn board applied to its entire width. Most Garrisons were three bays wide, although one two bay and one four bay example were found. Another interesting variation has the garage roof pitch project and extend to become an entrance porch for the main, two-story tall house.



Portland



1962, Portland



ca. 1967, Lewiston



1973, Old Town

*On this page, the lower two images show how the garage roof extends to form an entrance porch across the main volume of the two-story house. The two car garage is a prominent feature of the facade.*

**Foundations** are concrete, sometimes faced with brick.

**Siding** Clapboards, wood shingle siding, or brick veneer. A change in exterior cladding materials to articulate the stories is common.

**Window openings** have traditional double-hung sash with small lights (6/6 most common). In this less rigorous interpretation of Colonial architecture, picture windows are acceptable. Shutters are all but inevitable.

**Roofs** are side gable, and moderately pitched. Gambrel roofs appear in late 1960s examples in Maine. Overhanging eaves, finished with closed soffits and/or simple moldings. All are covered in asphalt shingles.

**Chimneys** are brick and typically built either at the free (non-garage) end of the Maine house, or in the rear roof slope.

**Garage** is either an outbuilding or in a small, one-story appendage.

## Colonial Revival (1948-1972)



1966, Augusta

*This “rambling” example is one and half stories high; ells telescope.*

Colonial-inspired architecture never went out of style in Maine and after World War II, houses continued to be built in imitation of Colonial-era houses. Although the more nostalgic version, the Neo-Colonial, was more common, some more academic efforts (e.g. no picture windows) were designed and constructed.

In this era, architects and builders emulated buildings from non-New England sources, such as the brick Tidewater architecture popularized by Colonial Williamsburg. Post World War II designs also incorporate garages. Boston architect Royal Barry Wills was another popular influence, both through his office in Maine and his numerous publications.

“Rambling” examples: typically one or one-and-a-half stories high, with several additions and ells, often in a linear or telescoping (rather than perpendicular) arrangement. Ells are usually shorter, and smaller to suggest an addition and create the appearance of a building that has grown over time. See the Augusta example, above, and the Cape Elizabeth example, below left.

“Formal” examples: Typically the main volume is two stories high, and each volume has a symmetrical arrangement of bays. These houses are more high-style, and are embellished with Georgian and Federal details including pedimented entrance ways, sidelights, and quoins.



1959, Cape Elizabeth, Royal Barry Wills, Architect



1972, Cape Elizabeth





1948, Bangor



1970, Bangor

This page: "Formal" examples

- Two story main volume.
- Symmetrical facades.
- Gable side roof.
- Massive brick chimneys)
- Garage is in an ell.



ca. 1958, Augusta

Pediment

Quoins

*Left: This example has Georgian details including 12/12 sash; pedimented entryway; quoins. Real Georgian houses don't have garages.*

**Foundations** are concrete, a giveaway to a 20th century construction date.

**Siding** Brick or shingle siding are most common. Wood clapboards are also used. Vinyl and aluminum siding possible, but likely a later alteration.

**Windows** are double hung wood sash, with small lights of glass: 12/12, 8/8. Shutters are inevitable, and iron shutter hardware is typical as it is more authentic.

**Roofs** are nearly always side gabled, and more steeply pitched than roofs on other post-World War II styles such as Modern, Ranch and Split Levels. Nearly all the surveyed examples had asphalt shingles.

**Chimneys** are brick, and massive.

**Garage** is nearly always in an ell or small, freestanding structure rather than integrated into the main volume of the house. The presence of a garage (rather than a port cochere) is another indication of a post World War II construction date.

## Minimal Modern (1947-1959)

In contrast to the Minimal Traditional (see the following section) houses built before and after World War II, some Maine homeowners chose a compact house with a more modern feel. Both types are simple, with minimal ornament, but while Minimal Traditional homes look to the past and borrow divided light sash with small panes, the Minimal Modern adopts the larger lights and aluminum frames of Modern/Contemporary architecture.

Like the Minimal Traditional house, the Minimal Modern is small in scale, and typically one or one-and-a-half stories high. Unlike the Ranch, a Minimal Modern has the potential for an upper living floor. The front facade is typically three bays wide, although some are two or four.

Roofs are moderately pitched, with overhangs at the gables and eaves. Roofs are oriented with the gable to the side. Unlike the later Ranch style, these homes have a full-height attic story that can accommodate bedrooms or other uses.



1948, Augusta

Windows wrap corner

Extended soffit



1954, Augusta



Window openings are irregularly placed - note different sill heights

1954, South Portland. W.O. Armitage, Architect



1956, South Portland



1955, Augusta

**Foundations** are concrete.

**Siding** Wood shingle siding is most common. Minimal Modern houses often have a mix of siding materials: wood shingle with brick or flush board are typical choices.

**Entrance door** is often under an extended soffit.

**Windows** Window openings are irregularly arranged: raised above a kitchen counter, dropped for a picture window at the living. Individual lights (panes) are large; horizontal, aluminum framed sash are common. An interesting variation is windows wrapping around a corner, possibly an interpretation of International style ribbon windows. Shutters are less common on this style.

**Roofs** are usually side gable, moderately pitched, and covered in asphalt shingles. Most have very minimal overhang at the eave. An extended the soffit over the entrance is common.

**Chimneys** are brick, small, and typically not prominent.

**Garage** If there is one, the garage usually is a freestanding outbuilding or secondary appendage for a single car. Integrated garages are not typical.

## Minimal Traditional (1949-1968)

Minimal Traditional houses, according to McAlester's *Field Guide*, were a style of simple homes that originated during the Great Depression and continued to be built before and after World War II. These houses are traditionally styled but executed with only minimal decoration: simple moldings at the rake and eave, shutters. Small in scale, they are typically one or one-and-a-half stories high.

Roofs are moderately pitched, with very minimal overhangs at the gables and eaves. Roofs are gable side, often with a cross gable. The cross gable may protect an integrated entrance porch. Unlike the later Ranch style, these homes have an attic story that can accommodate bedrooms or other uses.



1949, Augusta



1950 , Augusta



1955, South Portland



1955, Portland

**Foundations** are concrete.

**Siding** Wood shingle siding is most common.

**Entrance door** is nearly always under the cross gable (when there is one).

**Windows** Window openings are relatively small (compared to other post-WW II era housing) openings. Sash are metal or wood, with divided lights. Shutters are common.

**Roofs** are usually side gable, often with a cross gable, steeply pitched, and covered in asphalt shingles. Most have very minimal overhang at the eave.

**Chimneys** are brick, small, and typically not prominent.

**Garage** If there is one, the garage usually a freestanding outbuilding - these are small houses, after all! Later examples (after 1955) may have appended garages. Integrated garages are not typical.

# Ranch (1946-1975+)

The Ranch was by far the most popular post-World War II house style in Maine. Ranch houses are one-story high; this horizontal emphasis required larger lots, enabled by the widespread use of automobiles. The automobile, in turn, demanded a garage, and Ranch houses typically integrate a garage into the volume of the house itself.

Low pitched roof, with overhangs at eaves. Roof pitch will not accommodate a living space on the second floor. Roofs are hipped, cross gabled, or side gabled.

Facades and entrances are asymmetrical.



Cape Elizabeth, 1950



1952, Auburn



1952, Augusta

Cross gable

Entrance sheltered under extended roof

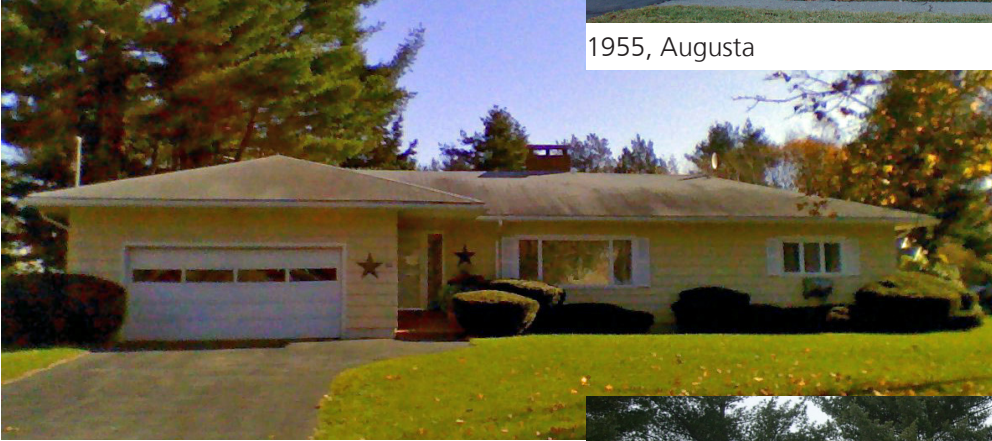
*These two pages: Typical early Ranches in Maine (1950-1955). Note gable side and hipped roofs. Entrances are integrated into the main roof or recessed into the front facade, sheltering the entrance without a projecting porch. Garages are typically integrated under the main roof or a cross gable. Contrasting siding materials (brick and shingle, stone and shingle) are common.*



1952, Auburn



1955, Augusta



1955, Auburn



1957, Lewiston

**Foundations** are concrete, sometimes faced with brick or stone.

**Siding** Brick, wood shingle, stone. In early Ranches, contrasting siding materials are popular.

**Entrance door** is off center, and typically sheltered. Entrance may be recessed into the facade, integrated under the main roof pitch, or under a cross gable.

**Windows** Vary. During the middle years of the study period (1955-1964) window openings are irregular, with a variety of opening sizes and high and low sill heights.

**Roofs** Roofs are low pitched; the attic is not tall enough to accommodate an upper living floor. The earliest ranches in Maine (1950-55) are either hipped or gable side, usually with one or more cross gables. Late `1950s and early 1960s Ranch Houses have simpler roof, typically gable side.

**Chimneys** are brick, and often prominent and slab-like.

**Garage** The garage is typically integrated into house mass/volume.



ca. 1960, Brunswick, Wadsworth and Boston., Architects



1961, Lewiston



South Portland



1965, Augusta



1968, Portland





1971, Old Town



1972, Auburn



1977, Augusta

# Raised Ranch (1958-1975+)

Like a Ranch, Raised Ranches have a single level of living. Unlike a Ranch, this level is elevated a half story above grade. Living spaces are on the main, upper floor while the lower floor contains an integrated garage and semi-finished space. The upper floor is often overhanging; in about half of the surveyed examples, different materials are used on the two levels.

By the mid-1960s, the design of the Raised Ranch had become very predictable. The living space, identifiable by its large picture window is on the smaller side, and bedrooms and private spaces, with smaller, higher windows occupy the other side. This placement of distinctive types of spaces on either side of the entrance is similar to the space planning principles of the Split Level, but in a Raised Ranch, the living is on a single rather than multiple levels connected by half flights of stairs. As a result, Raised Ranches have continuous roof lines, while Split Levels have a shift in ridge heights.

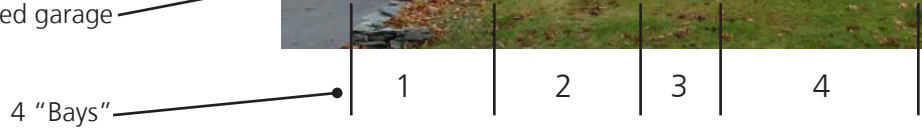


*At left, this early example found in Augusta is not quite a Raised Ranch. Although it has an integrated garage and the living areas appear to be on a single, elevated level, it lacks the off center, grade level entrance found in true Raised Ranches. Also note the entrance is in a side, rather than the primary, facade.*

1954, Augusta

*At right, another early example found in South Portland has many of the features found on Raised Ranches in Maine, although the entrance is not at grade.*

- Entrance is recessed into facade
- Overhanging second story facade
- Integrated garage



1958, South Portland



1964, Old Town

*By the late 1960s, the Maine-built Raised Ranch is very consistent. The second floor overhangs the first. The entry is in the front facade, slightly off center, and often recessed into the facade. The wider side has two bays, and contains sleeping and private spaces, identifiable by the smaller, higher set window openings. The narrower side contains the living space, which inevitably has a single, large window opening ("picture window"). The garage is integrated in the lower level of the wider side.*



1967, Augusta



1967, Bangor



1970, Lewiston



1970, Bangor



South Portland, 1973



1967, Portland



1969, Augusta

*Left and below: Yes, its a Raised Ranch. Note the roof height is continuous and the primary living space is on a single level.*



Auburn



1971, Portland

*These 1970s examples have cross gabled roofs over projecting volumes. The primary living space is on a single, raised level, making these Raised Ranches, not Split Levels.*



1974, Portland

**Foundations** are concrete, sometimes faced with brick or veneer stone.

**Siding** Clapboards, wood shingle siding, or brick veneer. A change in exterior cladding materials between stories was found in about half of the surveyed examples. In some examples, the siding material change extends up to the recessed entrance way.

**Entrance door** is at or slightly above grade, and lower than the primary living level. In later (post-1965) examples the entrance is often recessed into the façade.

**Windows** Window openings are large and closer to the floor on the “living” side, while the “private” sleeping side has smaller openings set higher in the wall. Sash configurations vary - divided lights, diamond panes, single lights are all possible.

**Roofs** are usually side gable, low-pitched, and covered in asphalt shingles. Most have an overhang at the eave.

**Chimneys** are brick, and typically not prominent.

**Garage** is typically (although not always) integrated into the house, in the lower level. Appended garages are less typical.

# Split Level (1956-1973)

A split level house has a two-story volume “intercepted” by a one-story volume at one side; this creates three separate living levels connected by half-flights of stairs. Typically, the lower level houses the garage and family room; the middle level has a quiet living area, and the upper level upper contains sleeping rooms. The living area, typically in the one-story volume, is identified by a large window opening, while the bedrooms in the second floor of the two-story volume have smaller window openings with operable sash.

In Maine examples, the primary entrance is usually (although not always) in the one-story volume and the garage is in the lower level of the two-story volume. A secondary entrance at the garage level is not unusual.



*Typical early Split Level examples in Maine. The one-story volume contains the primary entrance and living area, identified by the large “picture” window. The ridge of the roof steps up to accommodate the two story volume, which contains a garage and living space below and sleeping rooms above. In the bottom image, each roof line is a side gable. In the other two examples, the higher roof is a hip while the lower is a side gable.*

1959, Auburn



1958, Augusta



1957, Augusta



1968, Lewiston



1970, Old Town



1973, Augusta

*Later examples often have parallel gable roofs or cross gables. Also note the use of contrasting siding materials. By the late 1960s and 1970s, two car garages were common.*

**Foundations** are concrete, sometimes faced with brick.

**Siding** Clapboards, wood shingle siding, or brick veneer. A change in exterior cladding materials between the volumes, or articulating the stories of the two-story volume, is common.

**Windows** Large and close to the floor in the living area (one-story volume). Smaller openings set higher in the wall in the "private" sleeping zones.

**Roofs** are hipped, gable, or one of each; low-pitched; and covered in asphalt shingles. Early examples (1956-1959) often have a hipped roof on the two-story volume and a gable on the one-story volume. Later examples (1960s) have parallel gables, while some of the even later (late 1960s and 1970s) examples have cross gables.

**Chimneys** are brick, and not prominent.

**Garage** is typically (although not always) integrated into the house, in the lower level of the two-story volume. Appended garages are less typical.

## Modern/Contemporary (1950-1970)

Modern/contemporary houses were an alternative to more traditional styles. Characterized by low, horizontal volumes and roof lines, visual interest is provided by changing materials and textures rather than ornament and detail.

Typically, Modern houses are one story or one-and-a-half stories high. Two story examples are very rare, but were built in Maine.

Vertical flush board siding is a popular choice for Modern/Contemporary houses, often contrasted with brick or stone. Clapboard and vinyl siding are rare and typically a later remodeling effort. Shingle siding is not typically found on Contemporary houses in Maine (or elsewhere). Modern/contemporary houses have little or no decoration. Window openings have large paned sash and no shutters.

Roofs are flat, or gable with a very low pitch. Flat roofs likely built-up and low pitched roofs have asphalt shingles. Gable roofs typically have deeply overhanging eaves and may have exposed framing/rafter ends.



1951, Portland. Wadsworth, Boston, et. al., architects



1952, Augusta



1961, South Portland





1965, Portland



1967, Lewiston



1970, Lewiston

**Foundations** are concrete, sometimes faced with brick or stone.

**Siding** Modern houses are finished with smooth materials: brick, or vertical flush board siding. Clapboards and shingles are not typical. Contrasting materials are popular.

**Window openings** have large panes of glass; windows are often ganged together into bands. NO shutters.

**Roofs** are very low pitch, and sometimes, flat. Deep overhangs are popular, and exposed roof framing is common. Asphalt shingles are most common.

**Chimneys** are massive, slab-like and prominent. Most are brick, some are stone.

**Garage** is either appended, or incorporated under the main roof slope. Open carports are found with this style.

## Vernacular (1946-1975)



*The house at right was built in 1967. The same developer built an identical one nearby in 1956.*

1967, South Portland



1957, South Portland

Vernacular houses are those that are either so simple they lack enough detail to fit an architectural style, or that combine elements from so many styles the resulting house can't be categorized.



Lewiston/Auburn

**Foundations** are concrete, usually left bare.

**Siding** Wood shingle most common.

**Window openings** have divided light sash (6/6) or single light. Shutters are common.

**Roofs** vary; can be very low pitch, and steeper with room for a second floor of living space. Asphalt shingles.

**Chimneys** are typically brick and not prominent.

**Garage** Vernacular houses are often small in scale and may not have a garage. If there is one, it likely is freestanding or appended.

## Other (1946-1975)

A few other architectural styles – such as the International and Shed Styles - were implemented in Maine after World War II. The International Style was created by European architects before the war and sought to create quality, affordable housing using readily available, machine-made, mass-produced components. International Style houses combine horizontal, rectangular volumes, often cantilevered beyond their foundations, creating a floating effect. Typical features include flat or nearly flat roofs, usually with minimal or no overhang at the wall junction. Wall surfaces are smooth (stucco or board) and employ long ribbons of single-light windows.

The Shed Style is similar in its use of smooth cladding and geometric volumes, but emphasizes a sense of verticality and the use of contrasting pitched roofs. Shed houses typically have multi-pitched and multi-directional rooflines. Siding – typically flat boards, or sometimes shingle – is applied diagonally to follow and accentuate the pitch of the rooflines. Windows are small and not prominent, and entrances are typically recessed and concealed.

### International Style (1946-1949)



1949, Cape Elizabeth, Marcel Breuer



1946, Auburn

Shed Style (1968-1976)



1976, Augusta



1968, Old Town

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## **Appendix A**

### **Background Research for the Architect-Designed Houses Portion of the Survey**

For the examination of Architect-designed houses in Maine for the survey period Natalie Weinberger, Nancy Barba and Margaret Gaertner consulted the following sources:

Maine Historical Society Architectural Drawings Collection:

- Eaton W. Tarbell
- Wadsworth, Boston, Dimick, Mercer & Weatherill
- Crowell, Lancaster, Higgins, and Webster

Project lists from the following offices:

- Armitage Architects, Portland
- Harriman Architects and Engineers, Auburn
- Royal Barry Wills, Boston
- WBRC, Bangor

Oral history from Robert Armitage about his family's firm (father, mother, and self)

Query of Paul Stevens of SMRT for any possibilities for Stevens & Saunders (Paul's father) and of the son and wife of one of Stevens & Saunders' architects

Current owner oral history (a few still residing in their houses)

Building permits, City of South Portland

Tax maps

### **Methodology**

Nancy Barba began the search for Architect-designed homes by developing a list all of the individuals and firms she had heard of, or encountered, during her career in Maine (1982 on).

The list consisted of the following firms, which by no means is comprehensive, but a fairly strong sampling of those firms practicing in Maine. Known exceptions to Maine-based firms were Marcel Breuer and George Howe. Christi Mitchell issued a list of others which include Serge Chermayoff, Wallace K. Harrison, and others (see appendix for "Examples of Modernist Architecture in Maine", as developed by Historic New England, August 1, 2007. (Note: George Howe's house for Clara Fargo Thomas at Fortune Rocks is located in Somes Sound (not Seal Harbor) and is published in the book *Tomorrow's House* (Nelson, George and Wright, Henry, Simon and Schuster, 1945).

Ms. Barba and Margaret Gaertner then contacted a handful of these firms to ascertain what records or recollection they might have of their residential work.

The initial list included:

- Armitage Architects (Portland)
- Dean Woodward (Auburn)
- Francis Zelz (Bangor)

Harriman Architects and Engineers (Auburn) with specific interest in Alonzo Harriman and Gridley Barrows

- Wilbur Ingalls
- Royal Barry Wills (Newcastle and Boston)
- Eaton W. Tarbell (Bangor)
- Stevens & Saunders (Portland)
- WBRC (Bangor) with specific interest in Gertrude Ebbeson
- William Whited (Portland)
- Marcel Breuer (Boston)
- George Howe, Melior Meigs and Howe (Philadelphia)

Because the scope of the survey focused on four major urban areas, and the Architect-designed houses were a small part of this survey, the team limited their assessment to properties with readily accessed information at first. Nancy Barba consulted the drawing files at Maine Historical Society (MHS) and, culling through, developed a list of potential properties with MHS file number, owner's names, general address, and drawing file dates. She then cross-referenced these with the city directories to see if the owner's address changes in the same time period, indicating that the house may have been built. Interestingly, the directories sometimes tell the Owner's occupation, giving further insight into the original owner. Natalie Weinberger made cold calls to names on the lists and their descendents. We ran into many dead ends.

Rather than reviewing the drawings we moved right into confirming whether the houses had ever been built. From a list of about 30 residential projects from MHS, Margaret Gaertner cold called Farum, May Hebert and Sparwell Lane. Catherine Cofran of B+W contacted the city and retrieved available building permit files for the Portland and South Portland properties to confirm the date, address, and their existence; she then drove to each of the houses and took photographs.

For the Bangor properties, Sarah Martin drove by the properties on the list culled from MHS and discovered that many were additions or renovations or that the addresses were inconclusive or incorrect. She was able to identify one property on the list and in the course of her inquiries was directed to a potential property address. She contacted the owner directly, discovering their name through reverse "White Pages" directory. She was able to speak with the owner and tour the property to take pictures.

The list winnowed from 30 to 10 properties.

Nancy Barba has been aware of the Marcel Breuer house in Cape Elizabeth, having toured the property at two different time periods and recently written an article for Living Maine magazine. In the course of research she met original owner, Selma Potter and her family and viewed early slides of the house. She also met the current owner who had recently renovated the house.



The final course of action was to round out the examples from architects with their archives at the Maine Historical Society. Then we made direct calls to a handful of owners known to possess houses of the survey period. These included:

- Michael Payson House (Falmouth) by Serge Chermayoff (Cambridge)
- Philip Isaacson House (Lewiston) by F. Frederick Bruck (Cambridge)
- William Whited House (Portland) by William Whited (Portland)

Part of the challenge for the architect-designed houses was to find a relatively equal number of houses in each decade of the survey period. Out of 21 subjects the quantities are as follows:

1946 to 1955	5
1956 to 1965	11
1966 to 1975	5

Note: Properties located along the coast and Downeast were not surveyed, which meant, by nature, the surveyed houses were more mostly year-round residences not reflective of the trend of seasonal second homes along the coast where cost was less of a driver and the architects may have been more at liberty to experiment.