



ASSESSOR'S MANUAL

VOLUME I RESIDENTIAL



Published and distributed by authority of Act 223, P.A. 1986
being Section 211.10e of the Michigan Compiled Laws.

Michigan State Tax Commission

Douglas B. Roberts, Chairperson

Barry N. Simon

W. Howard Morris



100% recycled fiber



STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

R. KEVIN CLINTON
STATE TREASURER

NOTICE

The *Michigan Assessor's Manual* is published by the State Tax Commission of the State of Michigan. It is permitted solely for use by assessing officers employed in the State of Michigan, and solely for appraisals for the assessment of Michigan properties, for property tax purposes only. Any use of the *Michigan Assessor's Manual* for other purposes, including without limitation, insurance purposes, underwriting, risk management, building inspection and building permit issuance, personal property taxation, or eminent domain actions or proceedings, is strictly prohibited.

Marshall and Swift/Boeckh, LLC owns all rights in its data, cost schedules, data collection methodologies and valuation algorithms, including its content related thereto, contained in the *Michigan Assessor's Manual*. Any publication, reproduction, copying, electronic storage, transmission, modification, alteration or reverse engineering of Marshall and Swift/Boeckh, LLC's data, cost schedules, data collection methodologies and valuation algorithms, including its content related thereto, is strictly prohibited without the prior express written consent of Marshall and Swift/Boeckh, LLC.

Marshall and Swift/Boeckh, LLC does not represent or warrant that its data, cost schedules, data collection methodologies and valuation algorithms, including its content related thereto, is complete or free from error, and does not assume, and expressly disclaims, any liability to any person or entity for any loss or damage caused by errors or omissions in its data, cost schedules, data collection methodologies and valuation algorithms, including its content related thereto.

Volume I of the 2014 Assessor's Manual

Enclosed is the 2014 edition of Volume I of the *Assessor's Manual*. Many improvements have been added since the 2003 edition based, in large part, upon suggestions and observations received from users of the manual. In addition to updating the cost schedules, the following are some significant changes made to Volume I of the *Assessor's Manual*:

Additional major components added to the Residential Single-Family section include:

1. Expanding the solar room and greenhouse costs.

Additional major components add to the Log Home Section include:

1. Expanding the low-cost recreation cabin costs.

Farm occupancies Dairies and Milking Parlors have been combined into one occupancy Milking Parlors (Dairies).

Instructions for inserting the tabs into the new pages

TAB NAME	INSERT BEFORE PAGE
Instructions	1
Class D	27
Class CD	43
Class C	59
Class BC	75
Class B	91
Class A	107
Mobile/Manufactured	123
Log Homes/A-Frames	141
Town Houses/Duplexes	163
Unit-in-Place	185
Agricultural	218
County Multipliers	284
Glossary	286

TABLE OF CONTENTS

INTRODUCTION

General Introduction	1
General Procedures	2
Square Foot Cost Example	4
Residential Pricing Examples	7
How To Determine Class Of Construction	14
Guide To Selecting Story Height	16
Bi-level Vs Raised Ranch	18
Tri-level	19
Guide to the Calculation of Ground Area: Living Area and Wall Area	20
Depreciation	22
Depreciation Table for Residences (All Classes)	23
View of Residential Construction	24
Percentage Breakdown of Base Costs	25

SINGLE-FAMILY DETACHED SECTION

Class D

Specifications	27
Photographs and Line Drawing	28
Square Foot Costs	30
Adjustments and Additions	38

Class CD

Specifications	43
Photographs and Line Drawing	44
Square Foot Costs	46
Adjustments and Additions	54

Class C

Specifications	59
Photographs and Line Drawing	60
Square Foot Costs	62
Adjustments and Additions	70

Class BC

Specifications	75
Photographs and Line Drawing	76
Square Foot Costs	78
Adjustments and Additions	86

Class B

Specifications	91
Photographs and Line Drawing	92
Square Foot Costs	94
Adjustments and Additions	102

Class A

Specifications	107
Photographs and Line Drawing	108
Square Foot Costs	110
Adjustments and Additions	118

TABLE OF CONTENTS

MOBILE/MANUFACTURED HOUSING SECTION

Introduction	123
Low Quality	
General Description	124
Photographs	124
Component Descriptions	124
Square Foot Costs	125
Adjustments	125
Fair Quality	
General Description	126
Photographs	126
Component Descriptions	126
Square Foot Costs	127
Adjustments	127
Average Quality	
General Description	128
Photographs	128
Component Descriptions	128
Square Foot Costs	129
Adjustments	129
Good Quality	
General Description	130
Photographs	130
Component Descriptions	130
Square Foot Costs	131
Adjustments	131
Very Good Quality	
General Description	132
Photographs	132
Component Descriptions	132
Square Foot Costs	133
Adjustments	133
Excellent Quality	
General Description	134
Photographs	134
Component Descriptions	134
Square Foot Costs	135
Adjustments	135
Optional Items	136
Depreciation Table for Mobile Homes	138
Square Foot Cost Example	139

TABLE OF CONTENTS

LOG HOMES/A-FRAMES SECTION

General Introduction	141
Log Homes Class B	
General Description	142
Photographs	142
Component Descriptions	142
Square Foot Costs	143
Adjustments and Additions	143
Log Homes Class BC	
General Description	146
Photographs	146
Component Descriptions	146
Square Foot Costs	147
Adjustments and Additions	147
Log Homes Class C	
General Description	150
Photographs	150
Component Descriptions	150
Square Foot Costs	151
Adjustments and Additions	151
Log Homes Class CD	
General Description	154
Photographs	154
Component Descriptions	154
Square Foot Costs	155
Adjustments and Additions	155
Depreciation Table For Log Homes (All Classes)	158
Square Foot Example	159
A-frame Cabins	
Description	160
Square Foot Costs	160
Additions	160
Low-cost Recreation Cabins	
Description	161
Square Foot Costs	161
Additions	161

TABLE OF CONTENTS

TOWN HOUSES/DUPLEXES SECTION

Introduction	163
Definitions	163
Five Different Classes	163
Photographs	163
Pricing Example	163

Class CD

General Description	164
Photographs	164
Component Descriptions	164
Square Foot Costs	165
Adjustments and Additions	166

Class C

General Description	168
Photographs	168
Component Descriptions	168
Square Foot Costs	169
Adjustments and Additions	170

Class BC

General Description	172
Photographs	172
Component Descriptions	172
Square Foot Costs	173
Adjustments and Additions	174

Class B

General Description	176
Photographs	176
Component Descriptions	176
Square Foot Costs	177
Adjustments and Additions	178

Class A

General Description	180
Photographs	180
Component Descriptions	180
Square Foot Costs	181
Adjustments and Additions	182
Square Foot Example	184

UNIT-IN-PLACE SECTION

Unit-in-Place Instructions	185
Unit-in-Place Example	186
Unit-in-Place Costs	188

TABLE OF CONTENTS

FARM AND AGRICULTURAL SECTION

Sectional Table of Contents	218
Farm Buildings, General Description	219
Pricing Card Example	222
Barns, General Purpose, Special Purpose, Confinement and Bank	225
Commodity Barns, Hay, Free-stall and Sun Shelters	233
Milking Parlors (Dairies) and Milk Houses	235
Sheep Barns and Sheds	237
Farm Utility Storage and Loafing Sheds	239
Feeder Barns (Cattle Sheds)	239
Hog Houses/Nursery and Breeding/Gestation Barns	243
Hog Houses/Farrowing and Finishing Barns	245
Hog and Modified Hog Sheds	247
Individual Livestock Shelters	247
Stables and High-value (Estate) Stables	249
Arenas and Equestrian Lean-tos	251
Poultry Houses, Cage Operations, Enclosed and Screened	253
Poultry Houses, Floor Operations, Breeder and Broiler	255
Turkey Barns	257
Farm Implement Buildings and Shelters	261
Arch-rib (Quonset) Farm Implement Buildings	261
Farm Implement Sheds	263
Arch-rib (Quonset) Utility Buildings	263
Farm Utility Buildings	265
Lean-tos	265
Toolshed Buildings	265
Farm Utility/Grain Storage Buildings	267
Corn Crib Buildings	267
Bag Fertilizer Storage	267
Bulk Fertilizer Storage	267
Greenhouses	269
Shade Houses	269
Seed Processing Storage	271
Fruit Packing Barns	271
Farm Cold Storage Buildings	271
Potato Storage	273
Fruit/Vegetable Buildings – Environmental	273
Migrant (Transient) Labor Cabins	275
Labor Dormitories (Bunk Houses)	275
Corn Cribs	277
Horizontal Silos	277
Feed Lot Yard Improvements	278
Bunk Feeders	278
Silos	279
Grain Bins and Feed Tanks	280
Grain Tanks and Corrugated Metal Bins	281
Manure and Water Management Systems	282
Vertical Turbine Pumps	282
Well Jet Systems	282
Windmills	282
Slurry Tanks	282
Liquid Manure Tanks	282
Farm Building Depreciation Schedule	283

COUNTY MULTIPLIER SECTION

County Multipliers	284
--------------------------	-----

GLOSSARY SECTION

Glossary of Terms	286
-------------------------	-----

MICHIGAN RESIDENTIAL ASSESSOR'S MANUAL

GENERAL INTRODUCTION

The *Michigan Residential Assessor's Manual* is used for estimating reproduction costs for single-family residences. The cost sections in the manual encompass both site-built and manufactured housing, with supplemental land improvement, unit-in-place and farm/agricultural building costs. Other sections of the manual include pricing of log homes, A-frames, townhouses and duplexes.

Depreciation schedules for the various residences, and instructional examples showing the Square Foot Cost Method step by step are also included.

County Multipliers have been provided and will be updated each year. These multipliers will bring the costs current and localize them to a particular county.

This manual offers two complete methods for estimating total reproduction costs: The Square Foot Cost Method, and the Unit-in-Place Method.

THE SQUARE FOOT COST METHOD:

This is a simple cost estimating system. Based on the square feet of ground area of the residence, and with a minimal number of adjustments from a basic residence cost table, an accurate reproduction cost can be estimated. Because this cost estimating system requires few calculations, it can significantly reduce the amount of time spent per report.

THE UNIT-IN-PLACE METHOD:

For details, please refer to the Unit-in-Place section.

THE SQUARE FOOT METHOD:

What the Costs Include:

- 1) Plans, specifications, survey, and building permits.
- 2) Cost on interim money during normal period of construction.
- 3) Cost of materials and labor.
- 4) Sales taxes on materials.
- 5) Normal site preparation including trenching, excavating for concrete, backfill and finish grading.
- 6) Contractors' overhead and profit, including workmen's compensation, fire and liability insurance, unemployment insurance, etc.

What the Costs Do Not Include:

- 1) Cost of buying or assembling land such as escrow fees, legal fees, property taxes, demolition or rough grading.
- 2) Land planning or preliminary concept and layout for large developments inclusive of developers' overhead and profit.
- 3) Discounts or bonuses paid for financing.
- 4) Marketing costs to create the first occupancy including model and advertising expenses.
- 5) Contingency reserve where a percentage of the total cost is set aside for future events, such as labor strikes, anticipated labor and material increases, etc.

INTRODUCTION

GENERAL PROCEDURES

Single-family Residences:

For the convenience of the assessor, single-family detached houses have been divided into six major "Classes" that fit the specifications which he or she is most likely to find in the community. The classes range from the lowest quality level, D, through the highest quality level, A. Below is a listing of the six classes and the most common identification names for each.

Usual Class	Usual Identification
A	Architect built
B	Custom built
BC	Standard deluxe
C	Standard
CD	Tract type
D	Economy

To aid in the proper selection of the class of construction, use the Guide "How to Determine Class of Construction" (Page 14). Photographs, specifications and cross sectional sketches appear at the beginning of each class. All required cost data, including building costs and adjustments, are provided for each class. Unit-in-Place costs and land improvements for each class are provided beginning on Page 179.

Further refinement of the schedules above, such as D -10% or B +10% are a practical means of adjusting the base schedule rates to fit some of the endless degree of quality standards found in houses. To standardize the most common adjustments for the schedules used by assessors and appraisers, the following guide may be used. Observance of the suggested increments in the guide will eliminate accidental overlapping such as C -10%.

Typical adjustment increments for a 1-story, 1,000-square-foot brick house with a basement are as follows:

Class by Assessor	Percent of "C"	Class by Assessor	Percent of "C"
A +10%	199%	C +10%	110%
A	181%	C +5%	105%
A -10%	163%	C	100%
B +10%	156%	C -5%	95%
B +5%	149%	CD	88%
B	142%	D +5%	83%
B -5%	135%	D	79%
BC	126%	D -10%	71%

The percentage relationships may not hold true for all square foot sizes, story heights or types of exterior finish.

Other Considerations:

Sometimes a garage (usually a detached garage) does not match the quality of the house. In this instance, the appraiser should select the garage costs from that class schedule which gives the best indicator of cost new.

Since there are many possible dimensions for a residence with a given ground area, and because the wall area depends upon the perimeter of the residence, it is important to know how many linear feet of wall for each increment of ground area are considered "typical". The following table shows the linear feet of wall included as typical in base costs for each increment of ground area:

AREA/LINEAR FOOT TABLE					
Area	Lin. Ft. of Wall	Area	Lin. Ft. of Wall	Area	Lin. Ft. of Wall
400	82	1900	187	3400	257
450	86	1950	190	3450	259
500	90	2000	191	3500	260
550	94	2050	194	3550	262
600	99	2100	197	3600	263
650	102	2150	201	3650	265
700	107	2200	204	3700	266
750	111	2250	205	3800	269
800	115	2300	208	3900	272
850	118	2350	211	4000	275
900	122	2400	214	4100	278
950	126	2450	217	4200	281
1000	129	2500	218	4300	283
1050	133	2550	221	4400	286
1100	137	2600	224	4500	289
1150	140	2650	227	4600	292
1200	143	2700	229	4700	294
1250	147	2750	230	4800	297
1300	150	2800	233	4900	300
1350	154	2850	236	5000	303
1400	156	2900	239	5100	305
1450	160	2950	241	5200	308
1500	163	3000	244	5300	311
1550	167	3050	246	5400	313
1600	168	3100	248	5500	316
1650	172	3150	249	5600	318
1700	175	3200	251	5700	321
1750	179	3250	252	5800	323
1800	180	3300	254	5900	326
1850	183	3350	256	6000	328

INTRODUCTION

GENERAL PROCEDURES . . . Continued

If your residence has significantly more or less than the typical number of linear feet of wall as shown on the previous page, the Base Square Foot Cost may be adjusted as follows:

Step 1 – From class specifications, list the elements included under “exterior wall” and “windows”.

These are the elements whose cost is affected by the perimeter of the building.

Step 2 – From the Unit-in-Place costs, determine the cost per linear foot of wall for each of the elements in Step 1. Since elements for exterior wall are per square foot of wall, multiply by the wall height of 8' to attain cost per linear foot of wall.

Step 3 – Add all the costs in Step 2 to obtain the total cost per linear foot of wall.

Step 4 – From the area/linear foot table, determine the difference between the average number of linear feet of wall and the actual number of linear feet.

Step 5 – Multiply the difference in linear feet (Step 4) by the total cost per linear foot of wall (Step 3).

To incorporate the linear foot of wall adjustment with the Square Foot Cost Method steps, do the following:

*** Complete Square Foot Cost Method steps A through G (Page 4).

***Add or deduct the linear foot of wall adjustment (result of Step 5, above) to the Square Foot Cost in G (Page 4).

*** Continue Square Foot Cost Method Steps H through J.

SIZE FOR RATES

The area of the first floor determines the size for selection of Square Foot Costs. A house with 960 square feet on the first floor would be priced from the 950 square foot size cost. The 950 square foot size cost would be multiplied by the actual 960 square foot area. Thus, houses in the size range of 925 to 974 square feet would have a size for rates of 950. Houses in the size range of 975 to 1024 square feet would have a size for rates of 1000. If more precision is required, interpolation can be used.

In the case of mixed story heights, such as part 1-story and part 2-story, the total first floor area determines the size for rates. For example, assume a house with 500 square feet of 2-story and 500 square feet of 1-story. The total size for rates would be 1000 square feet. The rates to be used are both found under the 1000 square foot size as a 1-story house and as a 2-story house.

The area of 2-story is multiplied by the 2-story rate, and the area of 1-story is multiplied by the 1-story rate to determine the undepreciated reproduction cost of the house.

Areas which are priced from a separate schedule are not to be included as first floor area. (Exception: see the procedure for pricing built-in garages.) Thus, porches, breezeways and garages are excluded from the base

costs, but may be added in from the Adjustments and Additions pages.

EXPANDING TABLES

To estimate replacement costs for residences greater than 3000 square feet for classes C, BC and B, use the following multipliers and apply to the 3000 square foot cost. For class A, apply to the 3600 square foot cost.

Area (Sq. Ft.)	Class C Multiplier	Class BC Multiplier	Class B Multiplier	Class A Multiplier
3100	.9970	.9969	.9976	
3200	.9940	.9945	.9958	
3300	.9910	.9921	.9939	
3400	.9880	.9898	.9920	
3500	.9850	.9874	.9901	
3600	.9820	.9850	.9883	
3700	.9790	.9826	.9864	.9992
3800	.9760	.9803	.9845	.9973
3900	.9730	.9779	.9826	.9955
4000	.9700	.9755	.9808	.9937
4100	.9670	.9731	.9789	.9918
4200	.9640	.9708	.9770	.9900
4300	.9610	.9684	.9751	.9882
4400	.9580	.9660	.9733	.9863
4500	.9550	.9636	.9714	.9845
4600	.9520	.9613	.9695	.9827
4700	.9490	.9589	.9676	.9808
4800	.9460	.9565	.9658	.9790
4900	.9433	.9538	.9630	.9762
5000	.9409	.9514	.9606	.9738
5100	.9387	.9491	.9583	.9714
5200	.9367	.9471	.9563	.9694
5300	.9348	.9452	.9544	.9674
5400	.9330	.9434	.9526	.9656
5500	.9313	.9416	.9508	.9638
5600	.9295	.9398	.9489	.9619
5700	.9277	.9380	.9471	.9600
5800	.9259	.9361	.9452	.9582
5900	.9243	.9345	.9436	.9565
6000	.9228	.9331	.9421	.9550

OVERHANGS

Overhangs can be priced from the overhang schedules in the “Adjustments and Additions” sections of each class. These overhang prices are based on the typical “size for rates” for the various classes. If more precision is required, the one-story overhang rate can be estimated by deducting the 1 story rate from the 2-story rate at the desired “size for rates”. A 3/4- and 1/2-story overhang can be estimated using a similar procedure.

When the overhang schedule is used to price living area over a garage, which includes a variation from a gas-fired, forced-air heating system (such as the presence of air conditioning), the variation must be priced as a dollar adjustment from the “Adjustments and Additions” section.

INTRODUCTION

GENERAL PROCEDURES . . . Continued

BAY WINDOWS

A bay window which extends down to the ground level and includes a foundation should be priced as part of living area and included with size for rates.

A bay window which extends down to the floor level but does not include a foundation should be priced as an overhang, and is not included with the size for rates.

A bay window which does not extend down to the floor level should be considered when determining the class and should not be priced separately.

BUILT-IN GARAGES

A built-in garage is a garage which is part of the main structure of a residence, takes up area which one would usually expect to be first floor living area, and has living area above.

A built-in garage should be priced as an attached garage using the normal adjustments for interior finish and common walls. However, the area of the built-in garage should be included as part of the size for rates to avoid overpricing the house. Living area above a garage should be priced from the overhang schedule.

WALL-HEIGHT ADJUSTMENTS (VAULTED CEILINGS)

In the single-family sections, the base interior wall height is 8 feet for each floor. For each foot of variation, add to or deduct from that portion of the residence *base cost only*, 2% for all masonry exterior walls of residences, including brick and stone veneers, and 1.5% for siding exterior walls.

When measuring wall height, include the height of the sidewalls only. Do not include the distance from the second floor ceiling intersect to the peak of the roof. The following example illustrates the procedure for pricing the vaulted ceiling portion of a 2-story house where the vaulted ceiling portion is actually a 1-story area with walls that are 2 stories high (16 feet). If the house is a class C and has 1500 square feet of 2-story area and 500 square feet of vaulted ceiling area, the pricing would be as follows:

CALCULATION:

Size for rates = 2000

Exterior = siding

2-story area = 1500 sq. ft. x 156.64

1-story area = 500 sq. ft. x 102.43 x 1.12

The multiplier of 1.12 for the 1-story area is calculated by multiplying the 8 feet of extra wall height in the vaulted ceiling area by 1.5%.

SQUARE FOOT COST EXAMPLE

The following instructions are for the example on the next page. This example shows the correct procedures for Selecting a Square Foot Cost, making Adjustments and Additions, Applying a County Multiplier, Applying Depreciation, and Economic Factors.

INSTRUCTIONS:

- (A) Select proper class of construction. Use Class selection, Pages 14 – 15.
- (B) Select proper story height. Use “Story Height” selection, Pages 16 – 17.
- (C) Turn to the Square Foot Cost pages for the selected class and story height. Select type of exterior wall construction.
- (D) Determine amount of ground area for your residence by referring to “Determining Ground Area”, Pages 20 – 21. Determine the size for rates.
- (E) Select the Square Foot Cost amount that corresponds to your choice for exterior wall construction. This figure is your Base Square Foot Rate.

Make the appropriate basement and/or heat adjustments to the base rates and apply the % adjustments if the class is a plus or minus % (e.g. C +5%). % adjustments are not applied to any other adjustments and additions.

- (F) Multiply the area from (D) by the rate from (E) to get the base cost.
- (G) Make other adjustments and additions as necessary.
- (H) Use County Multiplier to localize costs in (G).
- (I) Depreciate the adjusted base by using depreciation tables, Page 23.
- (J) Multiply the result of (I) by the appropriate Economic Condition Factor.

SQUARE FOOT COST EXAMPLE

Arriving at a Square Foot Cost, making adjustments, additions, applying County Multipliers, applying depreciation and ECF factors.

Instructions for Steps (A) through (J) are located on adjacent page.

Assume we have a Class C, 10-year-old residence located in Alger County, Michigan, with the following characteristics:

1000 square feet of ground area; 1-1/2 stories; crawl space; frame construction with aluminum siding; forced-hot-water heat; a 1-story, 25-square-foot platform porch; standard municipal sewer and plumbing connections.

STEPS

(A) – (C) Locate Class C, 1-1/2-story Square Foot Cost page.

SQUARE FOOT COSTS CLASS C, 1-1/2 STORY

(D) Locate ground area of 1000 square feet under “Frame/Siding” column.

Ground Area	FRAME		MASONRY	BASEMENT ADJUST.		
	Siding	Brick Veneer	Block Walls	Wood Base.	Crawl Space Only	Slab on Grade Only
900	143.98	150.51	145.28	-1.91	-14.44	-19.21
950	142.88	149.32	144.22	-1.88	-14.14	-18.91
1000	<u>141.85</u>	148.20	143.23	-1.86	<u>-13.87</u>	-18.64
1050	140.87	147.14	142.29	-1.83	-13.62	-18.39
1100	139.94	146.14	141.40	-1.81	-13.38	-18.15

(E) Appropriate base Square Foot cost is \$141.85.

(E) Subtract for crawl space:
\$141.85 - \$13.87 = \$127.98

ADJUSTMENTS AND ADDITIONS CLASS C

(E) Adjust base of forced air with ducts to forced-hot-water system. Add \$4.34 per square foot of ground area:
\$127.98 + \$4.34 = \$132.32

HEATING AND COLLING SYSTEM ADJUSTMENS			
HEATING SYSTEMS	1-1/4	1-1/2	1-3/4
Forced-warm-air, without return ducts, deduct	-.92	-1.10	-1.29
Forced-hot-water/steam, add	3.63	<u>4.34</u>	5.06
Electric wall heaters, baseboard type, deduct	-.59	-.71	-.82
WATER AND WASTE DISPOSAL			
City water and sewer connections			<u>\$2,225</u>

(F) & (G) Add for city water and sewer connections \$2,225:
\$132.32 x 1000 sq. ft. ground =
\$132,320 + \$2,225 =
\$134,545

(G) Add for a 25-square-foot platform porch with a concrete floor:
\$20.80 x 25 sq. ft. = \$520
\$134,545 + \$520 =
\$135,065

Size for Rates	CPP PLATFORM PORCH	CCP COVERED PORCH
25	<u>20.80</u>	37.50
50	17.40	32.05
75	16.00	30.10

SQUARE FOOT COST EXAMPLE (Continued)

- (H) Select appropriate County . Multiplier. The multiplier for frame construction in Alger County is $\$135,065 \times .95 = \$128,312$

**COUNTY MULTIPLIERS FOR 2014 BASE RATES
State of Michigan**

County	RESIDENTIAL			
	Masonry	Siding	Frame Brick Veneer	Farm
Alcona	.97	.96	.96	.96
Alger	.95	.95	.95	.93
Allegan	.97	.97	.97	.95
Alpena	.97	.95	.95	.95
Antrim	.97	.96	.96	.95

- (I) Use Depreciation table to obtain depreciation %:
 $\$128,312 \times .90 = \$115,481$

Age	Remaining Condition	Age	Remaining Condition
8	92%	38	62%
9	91%	39	61%
10	90%	40	60%
11	89%	41	59%

- (J) Multiply by the Economic Condition Factor (EGF). Assume an ECF of 1.05 for the example.
 $\$115,481 \times 1.05 = \$121,255$

\$121,255	Total
-----------	-------

RESIDENTIAL PRICING EXAMPLES

On the following six pages are six pricing examples demonstrating the proper use of the residential pricing schedules. Pictures of the houses are included on this sheet to assist the reader in studying those pricing procedures. These pictures are not intended to be used as guides for determining class.



EXAMPLE 1



EXAMPLE 4



EXAMPLE 2



EXAMPLE 3



EXAMPLE 5



EXAMPLE 6

Located in Ingham County

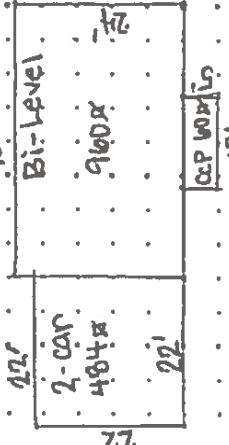
Assessment Year 2014

1 SPACE - 4' Pricing Example #1

TYPE Single Family	Trim & Decoration Exc <input checked="" type="checkbox"/> Ord <input type="checkbox"/> Min	Wash Fur No Head <input type="checkbox"/> Full Fl <input type="checkbox"/> No & Dual Elec. Fixtures	FF Fur No & Dual Elec. Fixtures	12. ELECTRIC Amps Service
Wood Frame Year Built 1923	Size and No. of Closets 19 <input checked="" type="checkbox"/> Ord <input type="checkbox"/> Small Many <input checked="" type="checkbox"/> Ord <input type="checkbox"/> Few Doors <input checked="" type="checkbox"/> Solid <input type="checkbox"/> H/C	Central Air Cond Tons	13. PLUMBING No. of Baths Kitchen FI Other	WPP 25P
2. Number of Rooms	5. FLOORS 1st floor 2nd floor Basement	13. PLUMBING Ceramic Floor Ceramic Wainscot Tub Alcove Separate Shower	14. WATER Water Softener <input type="checkbox"/> Owned <input type="checkbox"/> Leased Water Heater Gallons 30 <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Elec	Diagram showing a house layout with dimensions: 5' x 18' x 162' x 28'. Labels include '1-5 CR', 'WCP. 204x', and 'Ground Area 784 + 162 = 946'.
3. Basement	6. CEILINGS Drywall <input checked="" type="checkbox"/> Plaster Tile <input type="checkbox"/> Suspended	14. WATER Sewer	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
1. EXTERIOR Wood, Shingle Aluminum, Vinyl Brick Block	7. EXCAVATION Basement 784 SF Crawl 162 SF Slab	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
2. WINDOWS Many <input checked="" type="checkbox"/> Large Avg <input type="checkbox"/> Small Few <input type="checkbox"/> Wood Sash Metal Sash Vinyl Sash Double Hung Honz. Sliding Casement Double Glass Storms & Screens	8. BSMT. WALLS & FLOORS Avg <input checked="" type="checkbox"/> Poured Fw <input type="checkbox"/> Trashed Wood Wood Sash Concrete Floor	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
3. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	9. BASEMENT FIN. <input type="checkbox"/> None Wall Fresh Floor Fresh Ceiling Fresh Walkout	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
4. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	10. FLOOR SUPPORT Joist 8" - 16" OC Unsupported Length 12' Sill Plots <input type="checkbox"/> Yes <input type="checkbox"/> No Diag. Sub Floor Ply. Sub Floor Center Support Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	11. HEATING & AIR COND. Gas <input type="checkbox"/> Oil <input type="checkbox"/> Etc. Wood <input type="checkbox"/> Coal <input type="checkbox"/> Steam Forced Warm Air Forced Warm Water Stove or Space Heat	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	16. FLOOR PORCHES Type <input checked="" type="checkbox"/> Deck Wide 24 Deep 8 17. GARAGE/CARPORT Year Built Old	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	18. PORCHES Attached Wide Exterior Wood Doors Hinged	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	19. FLOOR SUPPORT Joist 8" - 16" OC Unsupported Length 12' Sill Plots <input type="checkbox"/> Yes <input type="checkbox"/> No Diag. Sub Floor Ply. Sub Floor Center Support Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	20. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	21. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	22. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	23. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	24. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	25. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	26. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	27. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	28. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	29. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	30. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	31. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	32. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	33. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	34. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	35. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	36. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	37. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	38. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	39. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	40. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	41. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	42. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	43. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	44. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	45. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	46. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	47. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	48. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	49. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	50. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	51. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	52. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	53. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	54. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	55. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	56. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	57. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	58. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	59. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	60. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	61. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	62. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	63. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	64. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	65. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	66. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	67. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	68. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	69. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	70. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	71. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	72. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	73. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	74. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	75. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	76. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	77. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	78. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	79. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	80. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	81. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	82. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	83. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	84. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	85. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	86. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	87. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	88. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	89. ROOF Gable <input checked="" type="checkbox"/> Gambrel Hip Flat Asphalt Shingles	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	90. INTERIOR Drywall <input checked="" type="checkbox"/> Plaster Paneled	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	
	91. EXTERIOR Wood Chord on 4" Block	14. SEWER Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Septic <input type="checkbox"/> 1/2" x 200	14. SE	

Located in Oakland County Assessment Year 2014 1 SPACE-5' Pricing Example #2

TYPE	Year Built	Year Renov	Single Family	Trn & Detachment	Exc	Ord	Min	No Heat	1st Fl	2nd Fl	Fy Fur	12. ELECTRIC	APPS SERVICE
3. ROOF	1978		Wood Frame	Year Renov	1/4	1/2	Small						
4. INTERIOR													
5. FLOORS													
6. CEILING													
7. EXCAVATION													
8. BSMT, WALLS & FLOORS													
9. BASEMENT FIN.													
10. PORCHES													
11. HEATING & AIR COND.													
12. BUILT-IN ITEMS													
13. PLUMBING													
14. WATER													
15. SEWER													
16. OVEN													
17. GARAGE/CARPORT													
18. FLOOR SUPPORT													
19. GABLE													
20. HYP													
21. EIREIGHT													
22. ALPHAB SHINGLES													
23. INSULATION													
24. FLOORING													
25. OTHER OVERLAY													
26. INTERIOR													
27. PAINT													
28. EXTERIOR													
29. PAINT													
30. PAINT													

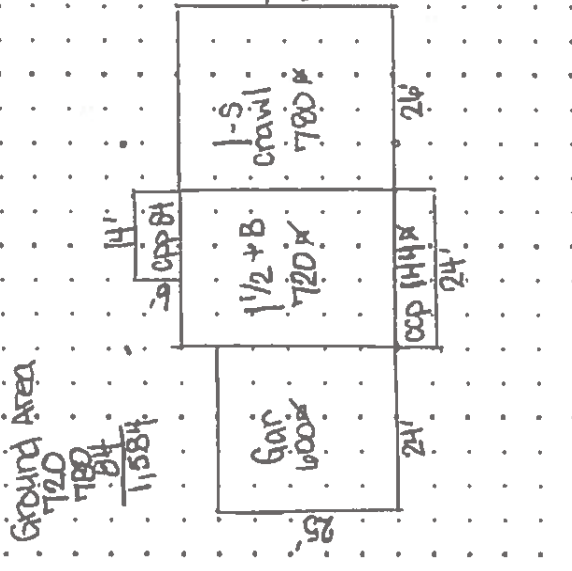


ITEM	SO FT / LIN FT	UNIT COSTS	BASE COST	COUNTY MULTI	DEPR % GOOD	DEPRECIATED COST
Bi-Level	9100	139.00	126440	1.07	.07	112,910
Garage Finish	32.85	4.50	148.125	1.07		
Bi-Level	141.46	5.73	810.166	1.07		
W.B. Fin	10.58	148.21	1568.21	1.07		
Less B.S.						139.00

Located in Grand Traverse County Assessment Year 2014 Pricing Example #3

1 SPACE - 5' Ground Area

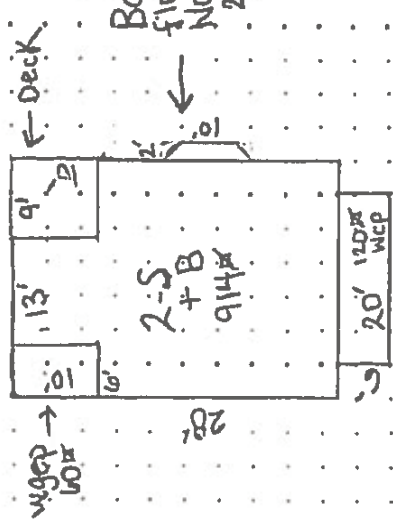
TYPE	Timber/Decking	Wash Fur	Flr Fur	1st Fl	2nd Fl	No & Qual Elec Fixtures	12. ELECTRIC	Wash Fur	Flr Fur	1st Fl	2nd Fl	No & Qual Elec Fixtures
1. EXTERIOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2. WINDOWS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3. ROOF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4. INTERIOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5. CEILINGS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6. FLOORS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7. EXCAVATION	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8. BSMT. WALLS & FLOORS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9. BASEMENT FIN.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10. FLOOR SUPPORT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11. HEATING & AIR COND.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12. ELECTRIC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13. PLUMBING	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14. WATER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15. BUILT-IN ITEMS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16. PORCHES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17. GARAGE/CARPOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18. PDORCHES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19. ATTACHED	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20. SEPARATE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



ITEM	SO FT / LIN FT	UNIT COSTS	BASE COST	COUNTY MKT	DEPR % GOOD	DEPRECIATED COST
1 1/2 x B	720	170.76	122,947			
1-5 Crawl	780	117.49	91,642			
#12, #14, #15			28,430			
#16 C/P	144	34.85	5,018			
#16 C/P	84	18.30	1,537			
#17 C/P	600	46.83	28,098			
Garage	1	500.00	500			
Common Wall			-2,240			
TOTAL BASE COST			275,932	.96	.64	169,533
MULTIPLIER						
NEW COST			264,895			169,533
Price						
Garage	39,58					
	7,25					
	46.83					

Located in Kent County
 Assessment Year 2014
 1 SPACE - 11 Pricing Example # 4

TYPE	Year Built	Year Remod	Year of Frame	Foundation	Basement	1. EXTERIOR	2. WINDOWS	3. ROOF	4. INTERIOR	5. BASEMENT FIN.	6. CEILINGS	7. EXCAVATION	8. BSMT. WALLS & FLOORS	9. BASEMENT FIN.	10. FLOOR SUPPORT	11. HEATING & AIR COND.	12. ELECTRIC	13. PLUMBING	14. WATER	15. BUILT-IN ITEMS	16. PORCHES	17. GARAGE/CARPOR	18. DECK	19. BALCONY	20. WALKWAY	21. DRIVEWAY	22. DRIVEWAY	23. DRIVEWAY	24. DRIVEWAY	25. DRIVEWAY	26. DRIVEWAY	27. DRIVEWAY	28. DRIVEWAY	29. DRIVEWAY	30. DRIVEWAY	31. DRIVEWAY	32. DRIVEWAY	33. DRIVEWAY	34. DRIVEWAY	35. DRIVEWAY	36. DRIVEWAY	37. DRIVEWAY	38. DRIVEWAY	39. DRIVEWAY	40. DRIVEWAY	41. DRIVEWAY	42. DRIVEWAY	43. DRIVEWAY	44. DRIVEWAY	45. DRIVEWAY	46. DRIVEWAY	47. DRIVEWAY	48. DRIVEWAY	49. DRIVEWAY	50. DRIVEWAY	51. DRIVEWAY	52. DRIVEWAY	53. DRIVEWAY	54. DRIVEWAY	55. DRIVEWAY	56. DRIVEWAY	57. DRIVEWAY	58. DRIVEWAY	59. DRIVEWAY	60. DRIVEWAY	61. DRIVEWAY	62. DRIVEWAY	63. DRIVEWAY	64. DRIVEWAY	65. DRIVEWAY	66. DRIVEWAY	67. DRIVEWAY	68. DRIVEWAY	69. DRIVEWAY	70. DRIVEWAY	71. DRIVEWAY	72. DRIVEWAY	73. DRIVEWAY	74. DRIVEWAY	75. DRIVEWAY	76. DRIVEWAY	77. DRIVEWAY	78. DRIVEWAY	79. DRIVEWAY	80. DRIVEWAY	81. DRIVEWAY	82. DRIVEWAY	83. DRIVEWAY	84. DRIVEWAY	85. DRIVEWAY	86. DRIVEWAY	87. DRIVEWAY	88. DRIVEWAY	89. DRIVEWAY	90. DRIVEWAY	91. DRIVEWAY	92. DRIVEWAY	93. DRIVEWAY	94. DRIVEWAY	95. DRIVEWAY	96. DRIVEWAY	97. DRIVEWAY	98. DRIVEWAY	99. DRIVEWAY	100. DRIVEWAY
1	1920	1980	Wood Frame	Basement	Basement	1. EXTERIOR	2. WINDOWS	3. ROOF	4. INTERIOR	5. BASEMENT FIN.	6. CEILINGS	7. EXCAVATION	8. BSMT. WALLS & FLOORS	9. BASEMENT FIN.	10. FLOOR SUPPORT	11. HEATING & AIR COND.	12. ELECTRIC	13. PLUMBING	14. WATER	15. BUILT-IN ITEMS	16. PORCHES	17. GARAGE/CARPOR	18. DECK	19. BALCONY	20. WALKWAY	21. DRIVEWAY	22. DRIVEWAY	23. DRIVEWAY	24. DRIVEWAY	25. DRIVEWAY	26. DRIVEWAY	27. DRIVEWAY	28. DRIVEWAY	29. DRIVEWAY	30. DRIVEWAY	31. DRIVEWAY	32. DRIVEWAY	33. DRIVEWAY	34. DRIVEWAY	35. DRIVEWAY	36. DRIVEWAY	37. DRIVEWAY	38. DRIVEWAY	39. DRIVEWAY	40. DRIVEWAY	41. DRIVEWAY	42. DRIVEWAY	43. DRIVEWAY	44. DRIVEWAY	45. DRIVEWAY	46. DRIVEWAY	47. DRIVEWAY	48. DRIVEWAY	49. DRIVEWAY	50. DRIVEWAY	51. DRIVEWAY	52. DRIVEWAY	53. DRIVEWAY	54. DRIVEWAY	55. DRIVEWAY	56. DRIVEWAY	57. DRIVEWAY	58. DRIVEWAY	59. DRIVEWAY	60. DRIVEWAY	61. DRIVEWAY	62. DRIVEWAY	63. DRIVEWAY	64. DRIVEWAY	65. DRIVEWAY	66. DRIVEWAY	67. DRIVEWAY	68. DRIVEWAY	69. DRIVEWAY	70. DRIVEWAY	71. DRIVEWAY	72. DRIVEWAY	73. DRIVEWAY	74. DRIVEWAY	75. DRIVEWAY	76. DRIVEWAY	77. DRIVEWAY	78. DRIVEWAY	79. DRIVEWAY	80. DRIVEWAY	81. DRIVEWAY	82. DRIVEWAY	83. DRIVEWAY	84. DRIVEWAY	85. DRIVEWAY	86. DRIVEWAY	87. DRIVEWAY	88. DRIVEWAY	89. DRIVEWAY	90. DRIVEWAY	91. DRIVEWAY	92. DRIVEWAY	93. DRIVEWAY	94. DRIVEWAY	95. DRIVEWAY	96. DRIVEWAY	97. DRIVEWAY	98. DRIVEWAY	99. DRIVEWAY	100. DRIVEWAY
1	1920	1980	Wood Frame	Basement	Basement	1. EXTERIOR	2. WINDOWS	3. ROOF	4. INTERIOR	5. BASEMENT FIN.	6. CEILINGS	7. EXCAVATION	8. BSMT. WALLS & FLOORS	9. BASEMENT FIN.	10. FLOOR SUPPORT	11. HEATING & AIR COND.	12. ELECTRIC	13. PLUMBING	14. WATER	15. BUILT-IN ITEMS	16. PORCHES	17. GARAGE/CARPOR	18. DECK	19. BALCONY	20. WALKWAY	21. DRIVEWAY	22. DRIVEWAY	23. DRIVEWAY	24. DRIVEWAY	25. DRIVEWAY	26. DRIVEWAY	27. DRIVEWAY	28. DRIVEWAY	29. DRIVEWAY	30. DRIVEWAY	31. DRIVEWAY	32. DRIVEWAY	33. DRIVEWAY	34. DRIVEWAY	35. DRIVEWAY	36. DRIVEWAY	37. DRIVEWAY	38. DRIVEWAY	39. DRIVEWAY	40. DRIVEWAY	41. DRIVEWAY	42. DRIVEWAY	43. DRIVEWAY	44. DRIVEWAY	45. DRIVEWAY	46. DRIVEWAY	47. DRIVEWAY	48. DRIVEWAY	49. DRIVEWAY	50. DRIVEWAY	51. DRIVEWAY	52. DRIVEWAY	53. DRIVEWAY	54. DRIVEWAY	55. DRIVEWAY	56. DRIVEWAY	57. DRIVEWAY	58. DRIVEWAY	59. DRIVEWAY	60. DRIVEWAY	61. DRIVEWAY	62. DRIVEWAY	63. DRIVEWAY	64. DRIVEWAY	65. DRIVEWAY	66. DRIVEWAY	67. DRIVEWAY	68. DRIVEWAY	69. DRIVEWAY	70. DRIVEWAY	71. DRIVEWAY	72. DRIVEWAY	73. DRIVEWAY	74. DRIVEWAY	75. DRIVEWAY	76. DRIVEWAY	77. DRIVEWAY	78. DRIVEWAY	79. DRIVEWAY	80. DRIVEWAY	81. DRIVEWAY	82. DRIVEWAY	83. DRIVEWAY	84. DRIVEWAY	85. DRIVEWAY	86. DRIVEWAY	87. DRIVEWAY	88. DRIVEWAY	89. DRIVEWAY	90. DRIVEWAY	91. DRIVEWAY	92. DRIVEWAY	93. DRIVEWAY	94. DRIVEWAY	95. DRIVEWAY	96. DRIVEWAY	97. DRIVEWAY	98. DRIVEWAY	99. DRIVEWAY	100. DRIVEWAY



1 SPACE-4' Pricing Example #6

Assessment Year 2014

Located in Chippewa County

TYPE	Single Family	Wood Frame	Year Built	Year Remod	1902-7	1960	Number of Rooms	Basement	1st floor	2nd floor	Baths	Total Bedrooms	1. EXTERIOR	2. WINDOWS	3. ROOF	4. INTERIOR	5. FLOORS	6. CEILINGS	7. EXCAVATION	8. BSMT. WALLS & FLOORS	9. BASEMENT FIN.	10. FLOOR SUPPORT	11. HEATING & AIR COND.	12. ELECTRIC	13. PLUMBING	14. WATER	15. BUILT-IN ITEMS	16. PORCHES	17. GARAGE/CARPORT	18. DRIVEWAY	19. DRIVEWAY	20. DRIVEWAY	21. DRIVEWAY	22. DRIVEWAY	23. DRIVEWAY	24. DRIVEWAY	25. DRIVEWAY	26. DRIVEWAY	27. DRIVEWAY	28. DRIVEWAY	29. DRIVEWAY	30. DRIVEWAY	31. DRIVEWAY	32. DRIVEWAY	33. DRIVEWAY	34. DRIVEWAY	35. DRIVEWAY	36. DRIVEWAY	37. DRIVEWAY	38. DRIVEWAY	39. DRIVEWAY	40. DRIVEWAY	41. DRIVEWAY	42. DRIVEWAY	43. DRIVEWAY	44. DRIVEWAY	45. DRIVEWAY	46. DRIVEWAY	47. DRIVEWAY	48. DRIVEWAY	49. DRIVEWAY	50. DRIVEWAY	51. DRIVEWAY	52. DRIVEWAY	53. DRIVEWAY	54. DRIVEWAY	55. DRIVEWAY	56. DRIVEWAY	57. DRIVEWAY	58. DRIVEWAY	59. DRIVEWAY	60. DRIVEWAY	61. DRIVEWAY	62. DRIVEWAY	63. DRIVEWAY	64. DRIVEWAY	65. DRIVEWAY	66. DRIVEWAY	67. DRIVEWAY	68. DRIVEWAY	69. DRIVEWAY	70. DRIVEWAY	71. DRIVEWAY	72. DRIVEWAY	73. DRIVEWAY	74. DRIVEWAY	75. DRIVEWAY	76. DRIVEWAY	77. DRIVEWAY	78. DRIVEWAY	79. DRIVEWAY	80. DRIVEWAY	81. DRIVEWAY	82. DRIVEWAY	83. DRIVEWAY	84. DRIVEWAY	85. DRIVEWAY	86. DRIVEWAY	87. DRIVEWAY	88. DRIVEWAY	89. DRIVEWAY	90. DRIVEWAY	91. DRIVEWAY	92. DRIVEWAY	93. DRIVEWAY	94. DRIVEWAY	95. DRIVEWAY	96. DRIVEWAY	97. DRIVEWAY	98. DRIVEWAY	99. DRIVEWAY	100. DRIVEWAY
TYPE	Single Family	Wood Frame	Year Built	Year Remod	1902-7	1960	Number of Rooms	Basement	1st floor	2nd floor	Baths	Total Bedrooms	1. EXTERIOR	2. WINDOWS	3. ROOF	4. INTERIOR	5. FLOORS	6. CEILINGS	7. EXCAVATION	8. BSMT. WALLS & FLOORS	9. BASEMENT FIN.	10. FLOOR SUPPORT	11. HEATING & AIR COND.	12. ELECTRIC	13. PLUMBING	14. WATER	15. BUILT-IN ITEMS	16. PORCHES	17. GARAGE/CARPORT	18. DRIVEWAY	19. DRIVEWAY	20. DRIVEWAY	21. DRIVEWAY	22. DRIVEWAY	23. DRIVEWAY	24. DRIVEWAY	25. DRIVEWAY	26. DRIVEWAY	27. DRIVEWAY	28. DRIVEWAY	29. DRIVEWAY	30. DRIVEWAY	31. DRIVEWAY	32. DRIVEWAY	33. DRIVEWAY	34. DRIVEWAY	35. DRIVEWAY	36. DRIVEWAY	37. DRIVEWAY	38. DRIVEWAY	39. DRIVEWAY	40. DRIVEWAY	41. DRIVEWAY	42. DRIVEWAY	43. DRIVEWAY	44. DRIVEWAY	45. DRIVEWAY	46. DRIVEWAY	47. DRIVEWAY	48. DRIVEWAY	49. DRIVEWAY	50. DRIVEWAY	51. DRIVEWAY	52. DRIVEWAY	53. DRIVEWAY	54. DRIVEWAY	55. DRIVEWAY	56. DRIVEWAY	57. DRIVEWAY	58. DRIVEWAY	59. DRIVEWAY	60. DRIVEWAY	61. DRIVEWAY	62. DRIVEWAY	63. DRIVEWAY	64. DRIVEWAY	65. DRIVEWAY	66. DRIVEWAY	67. DRIVEWAY	68. DRIVEWAY	69. DRIVEWAY	70. DRIVEWAY	71. DRIVEWAY	72. DRIVEWAY	73. DRIVEWAY	74. DRIVEWAY	75. DRIVEWAY	76. DRIVEWAY	77. DRIVEWAY	78. DRIVEWAY	79. DRIVEWAY	80. DRIVEWAY	81. DRIVEWAY	82. DRIVEWAY	83. DRIVEWAY	84. DRIVEWAY	85. DRIVEWAY	86. DRIVEWAY	87. DRIVEWAY	88. DRIVEWAY	89. DRIVEWAY	90. DRIVEWAY	91. DRIVEWAY	92. DRIVEWAY	93. DRIVEWAY	94. DRIVEWAY	95. DRIVEWAY	96. DRIVEWAY	97. DRIVEWAY	98. DRIVEWAY	99. DRIVEWAY	100. DRIVEWAY
TYPE	Single Family	Wood Frame	Year Built	Year Remod	1902-7	1960	Number of Rooms	Basement	1st floor	2nd floor	Baths	Total Bedrooms	1. EXTERIOR	2. WINDOWS	3. ROOF	4. INTERIOR	5. FLOORS	6. CEILINGS	7. EXCAVATION	8. BSMT. WALLS & FLOORS	9. BASEMENT FIN.	10. FLOOR SUPPORT	11. HEATING & AIR COND.	12. ELECTRIC	13. PLUMBING	14. WATER	15. BUILT-IN ITEMS	16. PORCHES	17. GARAGE/CARPORT	18. DRIVEWAY	19. DRIVEWAY	20. DRIVEWAY	21. DRIVEWAY	22. DRIVEWAY	23. DRIVEWAY	24. DRIVEWAY	25. DRIVEWAY	26. DRIVEWAY	27. DRIVEWAY	28. DRIVEWAY	29. DRIVEWAY	30. DRIVEWAY	31. DRIVEWAY	32. DRIVEWAY	33. DRIVEWAY	34. DRIVEWAY	35. DRIVEWAY	36. DRIVEWAY	37. DRIVEWAY	38. DRIVEWAY	39. DRIVEWAY	40. DRIVEWAY	41. DRIVEWAY	42. DRIVEWAY	43. DRIVEWAY	44. DRIVEWAY	45. DRIVEWAY	46. DRIVEWAY	47. DRIVEWAY	48. DRIVEWAY	49. DRIVEWAY	50. DRIVEWAY	51. DRIVEWAY	52. DRIVEWAY	53. DRIVEWAY	54. DRIVEWAY	55. DRIVEWAY	56. DRIVEWAY	57. DRIVEWAY	58. DRIVEWAY	59. DRIVEWAY	60. DRIVEWAY	61. DRIVEWAY	62. DRIVEWAY	63. DRIVEWAY	64. DRIVEWAY	65. DRIVEWAY	66. DRIVEWAY	67. DRIVEWAY	68. DRIVEWAY	69. DRIVEWAY	70. DRIVEWAY	71. DRIVEWAY	72. DRIVEWAY	73. DRIVEWAY	74. DRIVEWAY	75. DRIVEWAY	76. DRIVEWAY	77. DRIVEWAY	78. DRIVEWAY	79. DRIVEWAY	80. DRIVEWAY	81. DRIVEWAY	82. DRIVEWAY	83. DRIVEWAY	84. DRIVEWAY	85. DRIVEWAY	86. DRIVEWAY	87. DRIVEWAY	88. DRIVEWAY	89. DRIVEWAY	90. DRIVEWAY	91. DRIVEWAY	92. DRIVEWAY	93. DRIVEWAY	94. DRIVEWAY	95. DRIVEWAY	96. DRIVEWAY	97. DRIVEWAY	98. DRIVEWAY	99. DRIVEWAY	100. DRIVEWAY

1 1/4' + Bsmt.
7104' sq
22'
VICR 1544' ±
22'

ITEM	SO. FT./LIN. FT.	UNIT COSTS	BASIC COST	COUNTY MULT.	DEPR. % GOOD	DEPRECIATED COST
114+B	704	113.62	79,988		Observed 58	
#14,15	154	26.65	4,104			
#17Gar	240	29.20	7,008			
TOTAL BASE			92,985			
COUNTY MULTIPLIER			.92			
TOTAL DEPR. COST			85,546			
True Cash Value			42,713			

Observed condition: 50%

HOW TO DETERMINE CLASS OF CONSTRUCTION

	Class D Economy	Class CD Tract Type	Class C Standard
	Constructed with cost as the primary determining factor. Materials and workmanship may or may not meet Federal or local building codes. Basement, if present, of minimum head room.	Constructed with materials and workmanship meeting minimum Federal and local building codes. Mass produced from standard plans, or prefabricated. The primary determining characteristic is that the residence is usually found among others of same design or with minor exterior modifications.	Construction with average-quality materials and workmanship from stock-type plans with little or no architectural change. Some interior and exterior aesthetic features available as stock items. Built-ins few and of average quality. Interior surfaces drywall.
Exterior Walls			
Height	8 feet	8 feet	8 feet
Sheathing	1/2" insulation board	1/2" insulation board	1/2" insulation board
Insulation	3-1/2" batt	3-1/2" batt	3-1/2" batt
Interior	3/8" drywall	3/8" drywall	1/2" drywall
Roof			
	210# asphalt shingles	235# asphalt shingles	235# asphalt shingles
	1/2" oriented strand board	1/2" oriented strand board	1/2" plywood
	2" x 4" truss, 24" o.c.	2" x 4" truss, 24" o.c.	2" x 6" rafters, 16" o.c.
Interior Partitions			
Partition height	8 feet	8 feet	8 feet
Partition surface	3/8" drywall	3/8" drywall	3/8" drywall
Trim	Softwood	Softwood	Softwood
Floor finish	Softwood and linoleum or carpet and pad and linoleum	Softwood and vinyl, carpet and pad and vinyl sheets	Carpet and pad with underlayment and vinyl sheet
Basement walls	10 course, 8" concrete block	10 course, 8" concrete block	11 course, 8" concrete block
Basement floors			
Concrete	3" floor	3-1/2" floor	4" floor
Base	3" gravel base	4" gravel base	4" gravel base
Floor construction			
Subfloor	1/2" plywood	1/2" plywood	3/4" plywood
Joists	2" x 8", 16" o.c.	2" x 8", 16" o.c.	2" x 10", 16" o.c.

HOW TO DETERMINE CLASS OF CONSTRUCTION

Class BC Standard Deluxe	Class B Custom	Class A Class
Constructed with average-quality materials and workmanship using modified stock-type plans. Built-ins of average to better than average quality. Some distinguishing interior and exterior qualities for individuality. Interior surfaces plaster.	Constructed with good-quality materials and workmanship from custom-made plans and specifications. Some built-ins and special interior and exterior features. Interior surfaces plaster. Roof with asphalt shingles.	Constructed with excellent-quality materials and workmanship. Includes many built-ins and special interior and exterior features. Interior wall surfaces are plaster. Roof with better than average shingles.
8 feet	8 feet	8 feet
25/32" insulation board	5/32" insulation board	25/32" insulation board
3-1/2" batt	3-1/2" batt	6" batt
Plaster on 1/2" drywall	Plaster on 5/8" drywall	Plaster on 5/8" drywall
290# asphalt shingles	290# asphalt shingles	290# asphalt shingles
5/8" oriented strand board	5/8" plywood	5/8" plywood
2" x 6" rafters, 16" o.c.	2" x 8" rafters, 16" o.c.	2" x 8" rafters, 16" o.c.
8 feet	8 feet	8 feet
Plaster on 1/2" drywall	Plaster on 5/8" drywall	Plaster on 5/8" drywall
Hardwood	Hardwood	Hardwood
Carpet and pad, hardwood, vinyl tile, ceramic tile	Carpet and pad, hardwood vinyl tile, ceramic tile	Carpet and pad, hardwood vinyl tile, ceramic tile, slate
11 course	12" reinforced concrete block	12" reinforced concrete block
12" reinforced concrete block		
4" floor	4" floor	4" floor
4" gravel base	4" gravel base	4" gravel base
3/4" plywood	3/4" plywood	3/4" plywood
2" x 10", 16" o.c.	2" x 12", 16" o.c.	2" x 12", 16" o.c.

Exterior Walls

- Height
- Sheathing
- Insulation
- Interior

Roof

Interior Partitions

- Partition height
- Partition surface
- Trim

Floor finish

Basement walls

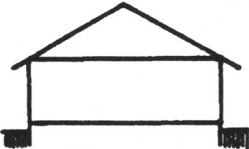
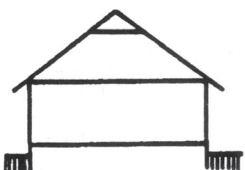
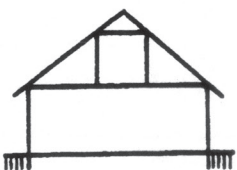
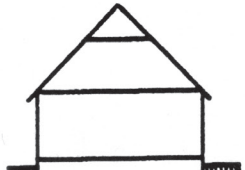

Basement floors

- Concrete
- Base

Floor construction

- Subfloor
- Joists

GUIDE TO SELECTING STORY HEIGHT

1-Story	1+ -Story	1-1/4-Story	1-1/2-Story
<p>A 1-story residence has no attic and one floor of living area at or near grade level.</p>	<p>A 1-story residence with an unfinished attic (having a ceiling height of at least 7 feet) with a floor and an area approximating 25% of that of the first floor.</p>	<p>A 1-story residence with a finished attic and an attic area (where the ceiling height is at least 7 feet) approximating 25% of that of the first floor.</p>	<p>A 1-story residence with a finished attic and an attic area (where the ceiling height is at least 7 feet) approximating 50% of that of the first floor. If the attic is unfinished, use 1-1/4-Story.</p>
			 

GARAGE TYPES



Attached Garage

Attached garage, a structure for automobiles, has one or two walls in common with the residence.



Detached Garage

Detached garage is free-standing, separate from the residence.

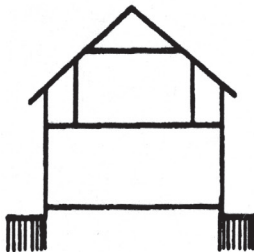
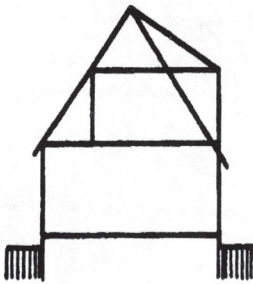


Carport

A roofed cover for automobiles, usually attached to residence and either open or enclosed by one or two walls.

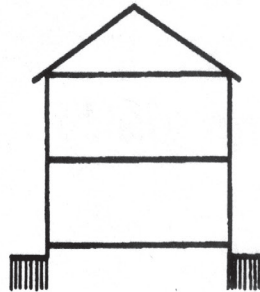
1-3/4-Story

A 1-3/4-story residence has a finished area (where the ceiling height is at least 7 feet) approximating 75% of that of the first floor. If the attic is unfinished, use 1-1/4-story.



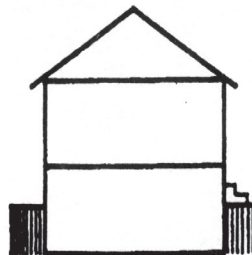
2-Story

A 2-story residence has two floors of living area, one at grade and one above grade, both with full ceiling heights.



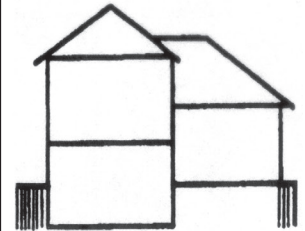
Bi-Level

A bi-level residence typically has a lower or ground level 4 feet below grade and an upper level 4 to 5 feet above grade, both with full ceiling heights. Entry is at grade level. Full-size windows in the lower level make the area suitable for a family room or a bedroom. Typically the lower level is 80% finished, allowing an unfinished area for utility and mechanical needs. Bi-levels are often located on a sloping lot so the lower level is partially exposed. Bi-levels have no basements.



Tri-Level

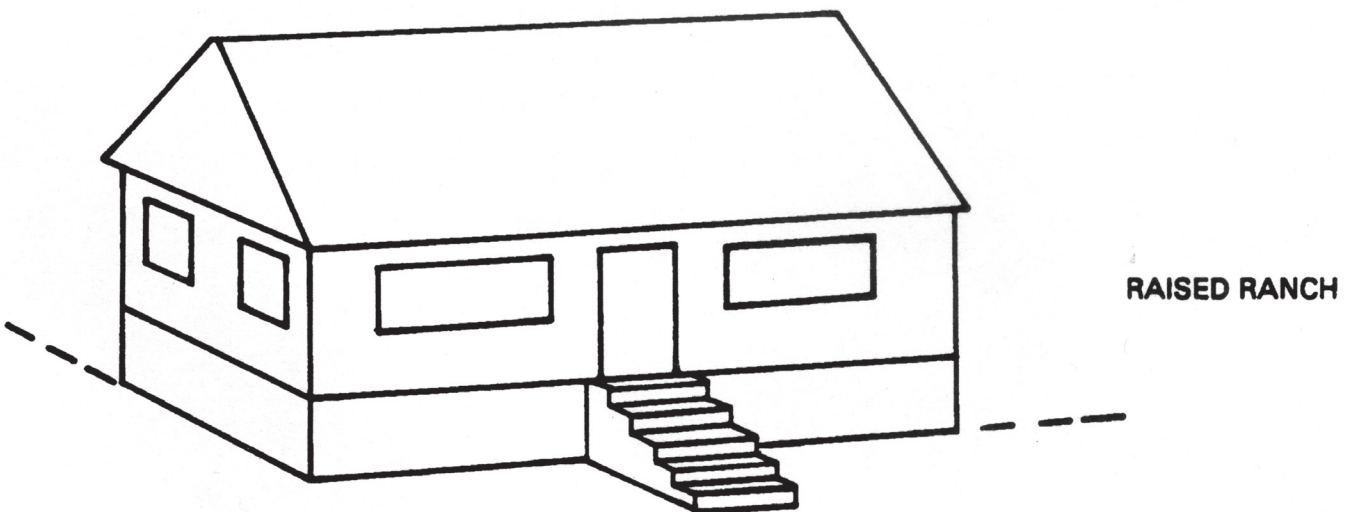
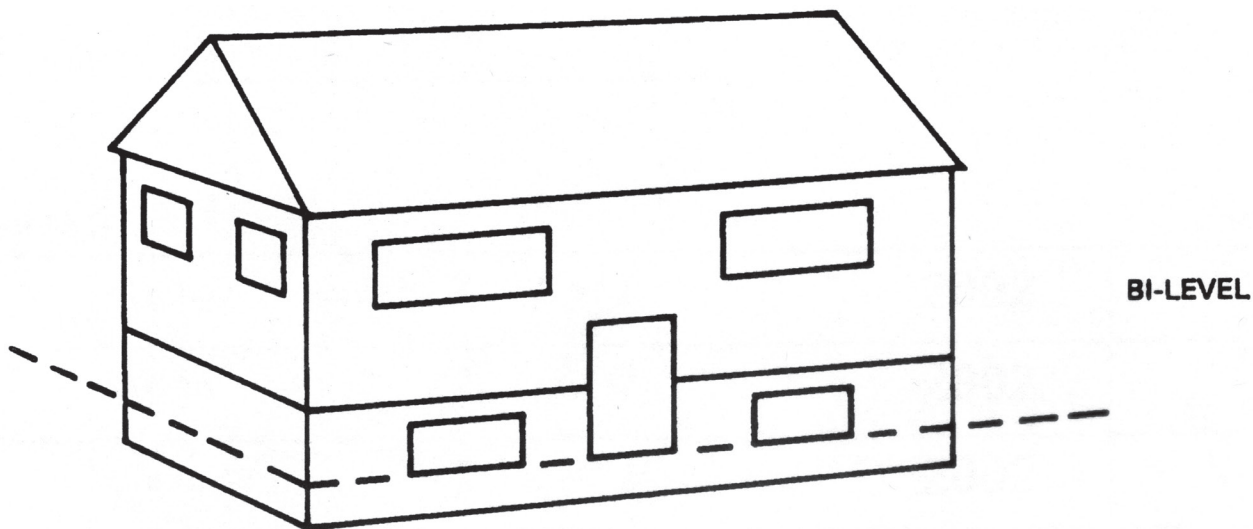
A tri-level residence has three levels of living area; one 4 feet below grade, one at grade, and one 4 feet above grade, all with full ceiling heights. The pricing schedules include a basement in the base rates for the level at grade.



BI-LEVEL VS RAISED RANCH

The bi-level residence is a two-level structure typically having its lower level 4 feet below grade and its upper level 4 to 5 feet above grade. Two characteristics of the bi-level residence are the split-foyer entry and the fact that the lower level includes required elements of living area, those usually being the living/dining area or bedrooms. The bi-level should be distinguished from the raised ranch, which is merely a 1-story plus

basement with basement walls partially exposed. The raised ranch typically has its entrance at the upper level, and the upper level contains all the required elements of the living area, those being living room, kitchen, dining area, bathroom and bedrooms. The raised ranch should be priced as a 1-story plus basement with additions for walk-out basement, basement garage and basement finish as needed.



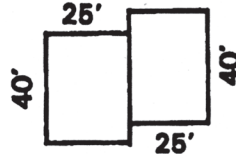
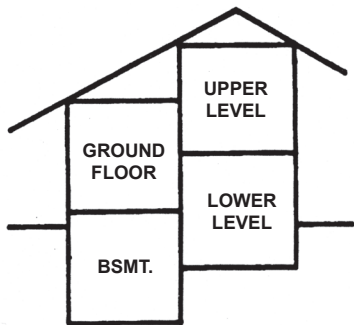
The bi-level schedules assume that the lower level is 80% finished. If the lower level is completely unfinished, price as a 1-story with basement. If the lower level is completely finished, price as a 2-story

on a slab. For finished levels of 20%, 40% and 60%, adjust the base rate by the amount listed under "Lower Level Finish" located on the Square Foot cost page.

TRI-LEVEL

The tri-level is a house which has living area on three different levels. The tri-level can be thought of as a combination of a bi-level and a 1-story structure.

The tri-level schedule assumes that the ground area of the bi-level and the 1-story sections of the house are equal in size as depicted in the sketch below.



Ground Area:

1-S + BSMT

$$40' \times 25' = 1,000 \text{ sq. ft.}$$

Bi-level

$$40' \times 25' = 1,000 \text{ sq. ft.}$$

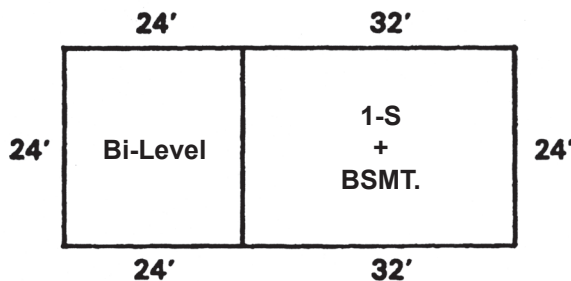
$$\text{Total Ground Area} = 2,000 \text{ sq. ft.}$$

The square foot rates are applied to the total ground area, which in the case of the example above is 2,000 sq. ft. The basement adjustment for the 1-story section must be applied to the total ground area, as the rates have already been adjusted for the fact that

only 1/2 of the house would need a basement adjustment. A tri-level with an equal split between the 1-story and bi-level sections has been included as one of the pricing examples in this chapter.

If the ground area of the tri-level is not approximately equally split between the 1-story and bi-level sections, the tri-level pricing schedule cannot be used. In this situation, the bi-level section should be priced separately from the bi-level schedule, and the 1-story section should be priced separately as a 1-story plus

basement, crawl space or slab as the facts dictate. The size for rates is determined from the combined ground area of the 1-story and bi-level sections. The resulting answer must then be increased by 8% to reflect the extra cost built into a tri-level house. Below is an example of this pricing procedure.



Ground Area:

1-S + BSMT

$$24' \times 32' = 768 \text{ sq. ft.}$$

Bi-level

$$24' \times 24' = 576 \text{ sq. ft.}$$

$$\text{Total Ground Area} = 1,344 \text{ sq. ft.}$$

$$\text{Size for Rates} = 1,350 \text{ sq. ft.}$$

As an example, the Class C rates for the example above follow:

$$1\text{-S} + \text{BSMT} \quad 768' \times \$108.67 = \$83,459$$

$$\text{Bi-level} \quad 576' \times \$136.39 = \underline{\$78,561}$$

$$\text{Total } \$162,020$$

$$\text{Add } 8\% \quad \times 1.08$$

$$\underline{\$174,982}$$

GUIDE TO THE CALCULATION OF GROUND AREA LIVING AREA AND WALL AREA

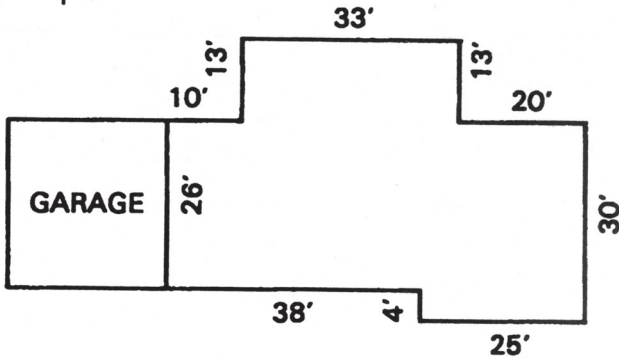
Calculation of Ground Area

Ground area is defined as the area computed from the exterior dimensions of the ground floor.

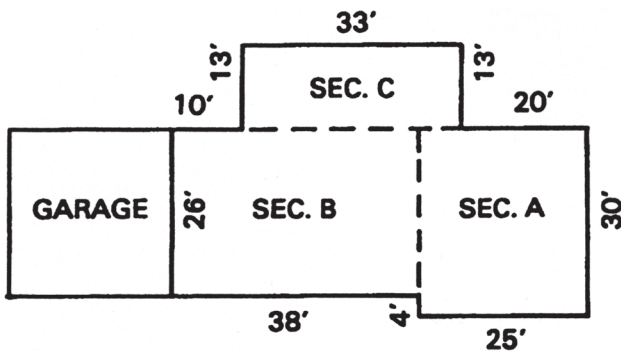
Step 1 – To calculate ground area, measure all exterior dimensions of the ground floor only, excluding garage, and construct a diagram showing these measurements.

***Note:** Measurements should be made at a place on the exterior wall where there is exterior finish, NOT at the ground level where there is no exterior finish on the wall. Do not add to the size of a house where owner has installed new siding over old siding.

Example:



Step 2 – Divide the diagram of the ground floor into sections approximating squares or rectangles.



Step 3 – Calculate the area of each square and/or rectangle.

Section A: $30' \times 25' = 750$ sq.ft.

Section B: $38' \times 26' = 988$ sq. ft.

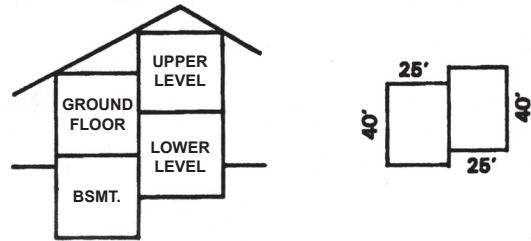
Section C: $33' \times 13' = 429$ sq. ft.

Ground Area = 2,167 sq. ft.

Size for Rates = 2,150 sq.ft.

A tri-level home has its ground floor split into two levels. To compute ground area, add the area of the lower level in the bi-level section and the area of the ground floor in the 1-story section.

Example:



Ground Floor:

$40' \times 25' = 1,000$ sq. ft.

Lower Level:

$40' \times 25' = 1,000$ sq. ft.

Ground Area = 2,000 sq. ft.

Size for Rates = 2,000 sq. ft.

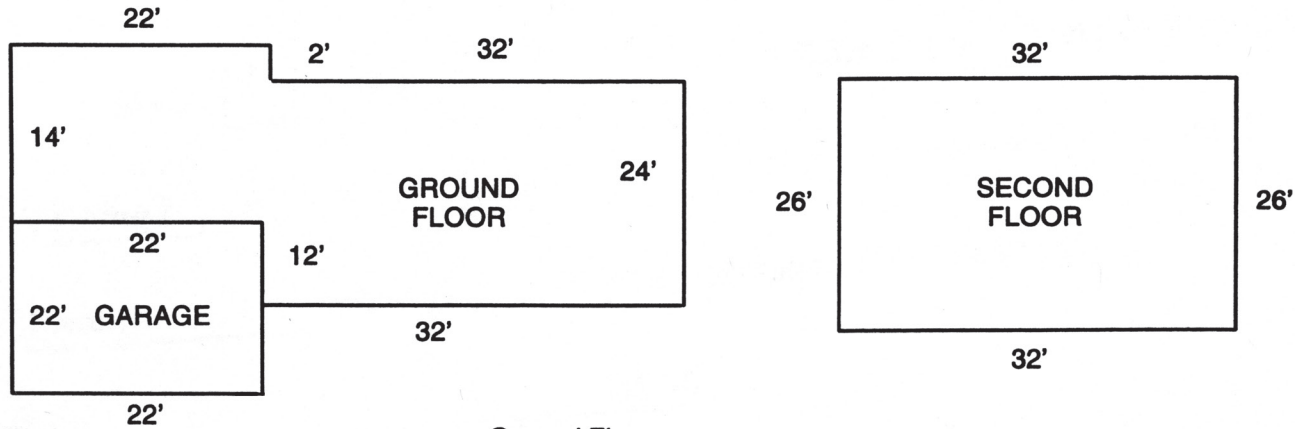
Calculation of Living Area

Living area is defined as the area computed using the exterior dimensions of the entire living area of the residence. Minimum ceiling height of living area is 7 feet.

In a 1-story house, living area and ground area are equal, and calculations are the same as those for ground area. To compute living area in a residence other than 1-story, add the area of the upper floors to the total ground area.

Example:

(Note: drawing not to scale)



Ground Floor:

$$24' \times 32' = 768 \text{ sq. ft.}$$

$$14' \times 22' = 308 \text{ sq. ft.}$$

$$\text{Total} = 1,076 \text{ sq. ft.}$$

Second Floor:

$$26' \times 32' = 832 \text{ sq. ft.}$$

$$\text{Total Living Area: } 1,908 \text{ sq. ft.}$$

CALCULATION OF EXTERIOR WALL AREA

Measure the number of linear feet and the height of all exterior walls, including walls separating attached garage from living area and excluding basement walls and foundation walls.

Multiply wall length by wall height to compute wall area.

Example: Calculate wall area of the 2-story residence described above.

$$\text{Ground floor: } 32' + 24' + 32' + 2' + 22' + 14' + 22' + 12' = 160 \text{ L.F.} \times 8' \text{ high} = 1,280 \text{ sq. ft. of wall area}$$

$$\text{Second floor: } 32' + 26' + 32' + 26' = 116 \text{ L.F.} \times 8' \text{ high} = 928 \text{ sq. ft. of wall area}$$

$$\text{TOTAL: } 1,280 + 928 = 2,208 \text{ sq. ft. wall area}$$

DEPRECIATION

In the cost approach for most structures, the appraiser must deduct depreciation from the estimate of cost new, because an old or used property is usually less valuable than a similar new one. Appraisal depreciation is defined as a loss in value resulting from physical deterioration, functional obsolescence and economic obsolescence. These three categories of depreciation are defined in the appraisal theory section of Volume III of the manual. However, there are many times when the appraiser will estimate total depreciation directly, instead of, or as a check against, the results found by estimating each category separately.

Rating can be done during inspection using these definitions and the corresponding percent conditions.

These are the same terms prospective buyers would use when inspecting a home. Sound valuation theory presupposes the existence of prospective buyers with intelligence enough to compare the advantages and disadvantages of competing properties, then rate each one according to its physical condition and degree of desirability and usefulness.

An estimate of total normal depreciation, expressed as a percent of the cost of reproduction or replacement new, can be made if the appraiser:

- rates the physical condition of the building and its degree of desirability and usefulness, using the system described below as a guide.
- uses this rating as a check on the remaining condition for the building's age indicated by the depreciation table on the following page.

Rating	Description	Corresponding Percent Condition	Mid Point
Excellent	Building is in perfect condition, very attractive and highly desirable.	95 – 100%	98%
Very good	Slight evidence of deterioration, still attractive and quite desirable.	85 – 94%	90%
Good	Minor deterioration visible, slightly less attractive and desirable, but useful.	75 – 84%	80%
Average	Normal wear and tear is apparent, average attractiveness and desirability.	60 – 74%	67%
Fair	Marked deterioration, rather unattractive and undesirable but still quite useful.	45 – 59%	52%
Poor	Definite deterioration is obvious, definitely undesirable and barely usable.	30 – 44%	37%
Very poor	Condition approaches unsoundness, extremely undesirable and barely usable.	20 – 29%	25%
Unsound	Building is definitely unsound and practically unfit for use.	0 – 19%	10%

DEPRECIATION TABLE FOR RESIDENCES (All Classes)

Age	Remaining Condition	Age	Remaining Condition
1	99%	31	69%
2	98%	32	68%
3	97%	33	67%
4	96%	34	66%
5	95%	35	65%
6	94%	36	64%
7	93%	37	63%
8	92%	38	62%
9	91%	39	61%
10	90%	40	60%
11	89%	41	59%
12	88%	42	58%
13	87%	43	57%
14	86%	44	56%
15	85%	45	55%
16	84%	46	54%
17	83%	47	53%
18	82%	48	52%
19	81%	49	51%
20	80%	50	50%
21	79%	51	49%
22	78%	52	48%
23	77%	53	47%
24	76%	54	46%
25	75%	55	45%
26	74%	Older	45%
27	73%		
28	72%		
29	71%		
30	70%		

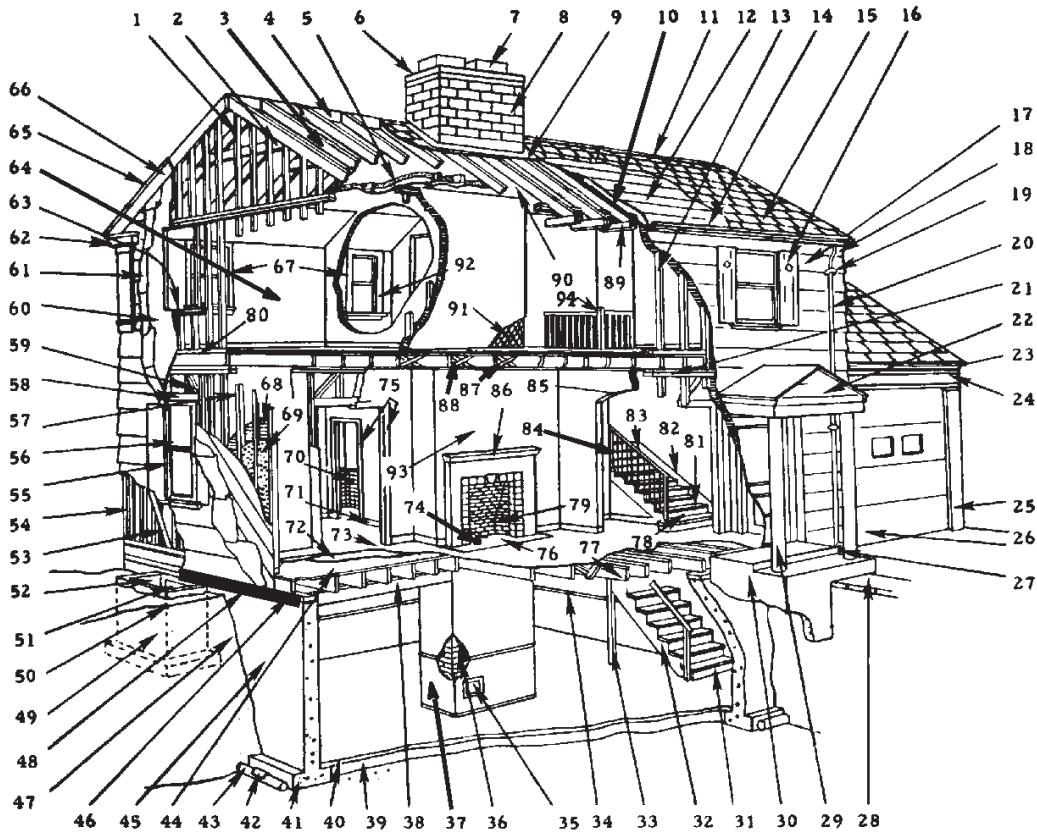
The depreciated condition will be held at 45% as long as the residence is habitable.

Age = Tax Year - date of construction

Example: A 2014 assessment is being figured for a building constructed in 1994. The age is 20 years.

The appraiser is to recognize exceptional maintenance, remodeling, replacements and additions in adjusting the % condition from that listed in this table to the actual observed condition. Exceptionally poor maintenance is also to be recognized.

VIEW OF RESIDENTIAL CONSTRUCTION



- | | | |
|-----------------------------------|---------------------------------|----------------------------|
| 1. Gable stud | 31. Basement stair riser | 62. Frieze or barge board |
| 2. Collar beam | 32. Stair stringer | 63. Rough opening |
| 3. Ceiling joist | 33. Girder post | 64. Wall finish |
| 4. Ridgeboard | 34. Chair rail | 65. Cornice molding |
| 5. Cap/plate | 35. Cleanout door | 66. Fascia board |
| 6. Chimney wash | 36. Masonry chimney | 67. Window casing |
| 7. Chimney pot | 37. Plaster over masonry | 68. Lath |
| 8. Chimney | 38. Furring strips | 69. Insulation |
| 9. Chimney flashing | 39. Cinder or gravel fill | 70. Wainscoting |
| 10. Insulation | 40. Concrete basement floor | 71. Baseboard |
| 11. Ridge | 41. Footing for foundation wall | 72. Building paper |
| 12. Roof sheathing | 42. Filter mat | 73. Finish floor |
| 13. Stud | 43. Foundation drain tile | 74. Ash dump |
| 14. Eave trough or gutter | 44. Subflooring | 75. Door trim |
| 15. Roofing | 45. Foundation wall | 76. Fireplace hearth |
| 16. Shutter | 46. Mudsill | 77. Floor joists |
| 17. Horizontal board siding | 47. Backfill | 78. Stair riser |
| 18. Downspout or leader gooseneck | 48. Termite shield | 79. Fire brick |
| 19. Downspout or leader strap | 49. Areaway wall | 80. Sole plate |
| 20. Downspout leader or conductor | 50. Grade line | 81. Stair tread |
| 21. Double plate | 51. Basement sash | 82. Finish stringer |
| 22. Entrance canopy | 52. Areaway | 83. Stair rail |
| 23. Garage cornice | 53. Corner brace | 84. Balusters |
| 24. Frieze | 54. Corner studs | 85. Plaster arch |
| 25. Doorjamb | 55. Window frame | 86. Mantel |
| 26. Garage door | 56. Window light | 87. Floor joist |
| 27. Entrance step | 57. Wall stud | 88. Bridging |
| 28. Sidewalk | 58. Window header | 89. Lookout/soffit framing |
| 29. Entrance post platform | 59. Window cripple | 90. Attic space |
| 30. Entrance platform | 60. Wall sheathing | 91. Metal lath |
| | 61. Building paper | 92. Window sash |
| | | 93. Chimney breast |
| | | 94. Newel post |

PERCENTAGE BREAKDOWN OF BASE COSTS

The following percentages indicate the approximate portion of the total cost of average-quality wood frame houses attributable to each component listed, as derived from an analysis of several groups of residences. Costs of plans and other components are based on several developments containing between five and fifty houses each.

AVERAGE-QUALITY HOUSE

Plans .....	.6%
Plan check and permit	2.1%
Survey .....	.4%
Water meter and temporary facilities .....	.6%
Excavation, forms, concrete and backfill	5.7%
Lumber, rough	8.0%
Carpenter labor, rough	9.6%
Roofing	4.0%
Insulation and weatherstrip	1.3%
Exterior finish: siding, stucco, masonry veneer	5.5%
Interior finish: plaster and drywall	6.3%
Sash, doors and shutters	4.1%
Lumber, finish	2.4%
Carpenter labor, finish	3.0%
Hardware, rough .....	.4%
Hardware, finish .....	.5%
Cabinets	4.0%
Countertops/tile	2.2%
Floor covering: hardwood or carpeting	2.8%
resilient	1.0%
Plumbing	6.4%
Shower doors/mirrors/tub enclosure .....	.5%
Electrical	4.8%
Light fixtures	1.2%
Built-in appliances	1.9%
Heating	3.9%
Sheet metal .....	.4%
Ornamental iron .....	.4%
Painting	2.6%
Sewer connection .....	.6%
Miscellaneous .....	.9%
Cleanup .....	.8%
General contractors' overhead and profit	<u>11.1%</u>
TOTAL	100.0%

The 11.1% listed for general contractors' overhead and profit is the percentage of the total cost. This is the equivalent of 14.8% of the labor, material and subcontract cost, excluding costs of plans, survey, plan check and permit, with a range from 10.2% to 20.8%.

